



**CANCER REPORTING IN CALIFORNIA**

# **Appendix**

**ABSTRACTING AND CODING  
PROCEDURES FOR HOSPITALS**

**California Cancer Reporting System  
Standards**

**VOLUME ONE**

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**PREPARED BY**

**California Cancer Registry  
Data Standards and Quality Control Unit**

**STATE OF CALIFORNIA**

**Department of Public Health  
Mark Horton, M.D., M.S.P.H., Director**

**CANCER SURVEILLANCE AND RESEARCH BRANCH  
Kurt Snipes, M.S., Ph.D., Chief**



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## APPENDIX A

### NEW HISTOLOGY CODES FOR LYMPHOMAS AND LEUKEMIAS

**NEW LYMPHOMA TERMS.** *Effective for cases diagnosed January 1, 1995, and after.*

ICD-O Code	Term
9673/3	Mantle cell lymphoma (*)
9688/3	T-cell rich B-cell lymphoma
9708/3	Subcutaneous panniculitic T-cell lymphoma
9710/3	Marginal zone lymphoma, NOS
9714/3	Anaplastic large cell lymphoma (ALCL), CD30+ (*)
9715/3	Mucosal-Associated Lymphoid Tissue (MALT) lymphoma
9716/3	Hepatosplenic $\gamma\delta$ (gamma - delta) cell lymphoma
9717/3	Intestinal T-cell lymphoma Enteropathy associated T-cell lymphoma

(\*) new term(s) for an existing number

**NEW LEUKEMIA TERMS.** *Effective for cases diagnosed January 1, 1998, and after.*

The following rules are to be used. They are in priority order:

1. Code the FAB (French-American-British) classification. FAB is implied if the description includes "L" or "M" with a number such as "L2" or "M5". If more than one FAB classification is listed, use the NOS code.  
Example:

Path: "Acute myelogenous leukemia, probably M1 or M2...."

Code to 9861/3, Acute myeloid leukemia, NOS

If the diagnostic statement lists a specific acute leukemia cell type, code that term. If more than one term is listed, use rules in ICD-O-2.

In addition to these rules, the following information will assist in assigning codes:

- "Maturation" and "differentiation" are synonymous.
- Code "acute non-lymphocytic leukemia" as 9861/3, acute myelogenous leukemia, NOS.
- Code "acute biphenotypic leukemia" or "mixed lineage leukemias" to 9801/3, acute leukemia, NOS.
- Terms equivalent to granulocytic are: myeloblastic, myelocytic, myelogenous, myeloid, non-lymphocytic.

- Terms equivalent to lymphocytic are: lymphoblastic, lymphoid, lymphatic.

ICD-O Code	Term
9821/3	Acute lymphoblastic leukemia, L1 type (*) Acute lymphocytic leukemia, L1 type (*) Acute lymphoid leukemia, L1 type (*) Acute lymphatic leukemia, L1 type (*) Lymphoblastic leukemia, L1 type (*) FAB L1 (*)
9826/3	FAB L3 (*)
9828/3	Acute lymphoblastic leukemia, L2 type Acute lymphocytic leukemia, L2 type Acute lymphoid leukemia, L2 type Acute lymphatic leukemia, L2 type Lymphoblastic leukemia, L2 type FAB L2
9840/3	FAB M6 (*)
9861/3	Acute myeloid leukemia, NOS (*) Acute myeloblastic leukemia, NOS (*) Acute granulocytic leukemia, NOS (*) Acute myelogenous leukemia, NOS (*) Acute myelocytic leukemia, NOS (*)
9866/3	FAB M3 (*)
9867/3	Acute myelomonocytic leukemia, NOS (*) FAB M4 (*)
9871/3	Acute myelomonocytic leukemia with eosinophils FAB M4E
9872/3	Acute myeloid leukemia, minimal differentiation Acute myeloblastic leukemia, minimal differentiation Acute granulocytic leukemia, minimal differentiation Acute myelogenous leukemia, minimal differentiation Acute myelocytic leukemia, minimal differentiation FAB M0
9873/3	Acute myeloid leukemia without maturation Acute myeloblastic leukemia without maturation Acute granulocytic leukemia, without maturation Acute myelogenous leukemia, without maturation Acute myelocytic leukemia, without maturation FAB M1
9874/3	Acute myeloid leukemia with maturation Acute myeloblastic leukemia with maturation Acute granulocytic leukemia, with maturation Acute myelogenous leukemia, with maturation Acute myelocytic leukemia, with maturation

	FAB M2
9891/3	FAB M5 (*) FAB M5A (*) FAB M5B (*)
9910/3	Megakaryoblastic leukemia, NOS (C42.1) FAB M7

(\*) new term(s) for an existing number

**APPENDIX B**

**POSTAL ABBREVIATIONS FOR STATES AND TERRITORIES OF THE UNITED STATES**

AL	ALABAMA	NH	NEW HAMPSHIRE
AK	ALASKA	NJ	NEW JERSEY
AS	AMERICAN SAMOA	NM	NEW MEXICO
AZ	ARIZONA	NY	NEW YORK
AR	ARKANSAS	NC	NORTH CAROLINA
CA	CALIFORNIA	ND	NORTH DAKOTA
CO	COLORADO	MP	NORTHERN MARIANA ISLANDS
CT	CONNECTICUT	OH	OHIO
DE	DELAWARE	OK	OKLAHOMA
DC	DISTRICT OF COLUMBIA	OR	OREGON
FL	FLORIDA	PW	PALAU
GA	GEORGIA	PA	PENNSYLVANIA
GU	GUAM	PR	PUERTO RICO
HI	HAWAII	RI	RHODE ISLAND
ID	IDAHO	SC	SOUTH CAROLINA
IL	ILLINOIS	SD	SOUTH DAKOTA
IN	INDIANA	TN	TENNESSEE
IA	IOWA	TX	TEXAS
KS	KANSAS	TT	TRUST TERRITORIES
KY	KENTUCKY	UM	US MINOR OUTLYING ISLANDS
LA	LOUISIANA	US	RESIDENT OF UNITED STATES, NOS
ME	MAINE	UT	UTAH
MD	MARYLAND	VT	VERMONT



MH	MARSHALL ISLANDS	VA	VIRGINIA
MA	MASSACHUSETTS	VI	VIRGIN ISLANDS
MI	MICHIGAN	DC	WASHINGTON, DISTRICT OF
FM	MICRONESIA, FEDERATED STATE OF	WA	WASHINGTON, STATE OF
MN	MINNESOTA	WV	WEST VIRGINIA
MS	MISSISSIPPI	WI	WISCONSIN
MO	MISSOURI	WY	WYOMING
MT	MONTANA	XX	NOT U.S., U.S. TERRITORY, NOT CANADA, AND COUNTRY IS KNOWN
NE	NEBRASKA	YY	NOT U.S., U.S. TERRITORY, NOT CANADA, AND COUNTRY IS UNKNOWN
NV	NEVADA	ZZ	RESIDENCE IS UNKNOWN

**UNITED STATES MILITARY PERSONNEL SERVING ABROAD**

**AA** *American Territories-US Military abroad*

**AE** *Europe-US Military abroad*

**AP** *Pacific-US Military abroad*

**CANADIAN PROVINCE/ TERRITORY**

AB	ALBERTA	NS	NOVA SCOTIA
BC	BRITISH COLUMBIA	NU	NUNAVUT
CD	CANADA, NOS	ON	ONTARIO
MB	MANITOBA	PE	PRINCE EDWARD ISLAND

NB	NEW BRUNSWICK	QB	QUEBEC
NL	NEWFOUNDLAND AND LABRADOR	SK	SASKATCHEWAN
NT	NORTHWEST TERRITORIES	YT	YUKON TERRITORIES



**California Cancer Registry Volume I: Data Standards and Data Dic**

Source: *Cancer Reporting in California: Abstracting and Coding Procedures for Hos*  
*Cancer Reporting System Standards, Vol. I*), updated May 2008

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**APPENDIX C**

**CODES FOR STATES AND TERRITORIES OF THE UNITED STATES AND PROVINCES  
AND TERRITORIES OF CANADA**

**US States/Territories**

ALABAMA	037
ALASKA	091
AMERICAN SAMOA	121
ARIZONA	087
ARKANSAS	071
CALIFORNIA	097
COLORADO	083
CONNECTICUT	007
DELAWARE	017
DISTRICT OF COLUMBIA	022
FLORIDA	035
GEORGIA	033
GUAM	126
HAWAII	099
IDAHO	081
ILLINOIS	061
INDIANA	045
IOWA	053
KANSAS	065

KENTUCKY	047
LOUISIANA	073
MAINE	002
MARSHALL ISLANDS	131
MARYLAND	021
MASSACHUSETTS	005
MICRONESIA, FEDERATED STATES OF	123
MICHIGAN	041
MINNESOTA	052
MISSISSIPPI	039
MISSOURI	063
MONTANA	056
NEBRASKA	067
NEVADA	085
NEW HAMPSHIRE	003
NEW JERSEY	008
NEW MEXICO	086
NEW YORK	011
NORTH CAROLINA	025
NORTH DAKOTA	054
NORTHERN MARIANA ISLANDS	129
OHIO	043
OKLAHOMA	075
OREGON	095
PALAU	139
PENNSYLVANIA	014
PUERTO RICO	101
RHODE ISLAND	006
SOUTH CAROLINA	026
SOUTH DAKOTA	055
TENNESSEE	031
TEXAS	077
UTAH	084
VERMONT	004
VIRGINIA	023
VIRGIN ISLANDS	102
WASHINGTON, DISTRICT OF	022
WASHINGTON, STATE OF	093

WEST VIRGINIA	024
WISCONSIN	051
WYOMING	082
U.S.A., STATE UNKNOWN	000

**CANADIAN PROVINCE/ TERRITORY**

ALBERTA	224
BRITISH COLUMBIA	226
CANADA, NOS	220
MANITOBA	224
NEW BRUNSWICK	221
NEWFOUNDLAND AND LABRADOR	221
NORTHWEST TERRITORIES	225
NOVA SCOTIA	221
NUNAVUT	227
ONTARIO	223
PRINCE EDWARD ISLAND	221
QUEBEC	222
SASKATCHEWAN	224
YUKON TERRITORIES	225

**APPENDIX D.1**

**CODES FOR COUNTRIES**

(in alphabetical order, includes codes for U.S. states and territories) (see numerical order)

ABYSSINIA	585
ADEN	629
AFARS/ISSAS	583
AFGHANISTAN	638
AFRICA, NOS	500
AFRICA-CENTRAL (OTHER WEST)	539
AFRICA-SUDANESE COUNTRIES	520
AFRICAN COASTAL ISLANDS	580
ALABAMA	037
ALASKA	091
ALBANIA	481
ALBERTA	224
ALGERIA	513
AMERICA, NORTH	260
AMERICAN SAMOA	121
ANATOLIA	611
ANDAMAN ISLANDS	641
ANDORRA	443
ANGOLA	543
ANGUILLA	245
ANNAM	665
ANTARCTICA	750
ANTIGUA	245
ANTILLES	245

ARABIA	629
ARABIAN PENINSULA	629
ARGENTINA	365
ARIZONA	087
ARKANSAS	071
ARMENIA	633
ARMENIA TURKISH	611
ARUBA	245
ASIA MINOR, NOS	610
ASIA, NOS	600
ASIA-ARAB COUNTRIES, NOS	620
ASIA-EAST, NOS	680
ASIA-MID-EAST, NOS	640
ASIA-NEAR EAST, NOS	610
ASIA-SOUTHEAST, NOS	650
ASIAN REPUBLICS OF FORMER USSR	634
ATLAN/CARIB US OTHER	109
ATLANTIC/CARIBBEAN AREA, U.S. POSSESSIONS	100
AUSTRALIA/AUST NEW GUINEA	711
AUSTRIA	436
AZERBAIDZHAN SSR	633
AZERBAIJAN	633
AZORES	445
BAHAMAS	247
BAHRAIN	629
BALEARIC ISL	443
BALTIC REPUBLIC, NOS	463
BALTIC STATES, NOS	463
BANGLADESH	645
BARBADOS	245
BARBUDA	245
BASUTOLAND	545

BAVARIA	431
BECHUANALAND	545
BELARUS	457
BELGIUM	433
BELIZE	252
BENIN	539
BERMUDA	246
BESSARABIA	456
BHUTAN	643
BIOKO	539
BOHEMIA	452
BOLIVIA	355
BOPHUTHATSWANA	545
BORNEO	673
BOSNIA-HERZOGOVINA	453
BOTSWANA	545
BRAZIL	341
BRITISH COLUMBIA	226
BRITISH GUIANA	331
BRITISH HONDURAS	252
BRUNEI	671
BULGARIA	454
BURKINA FASO	520
BURMA	649
BURUNDI	579
BYELORUSSIA	457
CABINDA	543
CAICOS ISLANDS	245
CALIFORNIA	097
CAMBODIA	663
CAMEROON	539
CANADA, NOS	220
CANADA-MARITIME PROVINCE	221

CANADA-NUNAVUT	227
CANADA-NW TERR/YUKON	225
CANADA-PRAIRIE PROVINCE	224
CANAL ZONE	110
CANARY ISL	443
CANTON/ENDERBURY ISL	122
CAPE COLONY	545
CAPE VERDE ISL	445
CARIBBEAN ISL NEC	245
CARIBBEAN, NOS	245
CAROLINE ISL (MICRONESA, FEDERATED STATES OF)	123
CARTIER ISLANDS	711
CAUCASIAN REPUBLICS OF FORMER USSR	633
CAYMAN ISLANDS	245
CENTRAL AFRICA, NOS	500
CENTRAL AFRICAN REPUBLIC	539
CENTRAL AMERICA, NOS	250
CEYLON	647
CHAD	520
CHANNEL ISL	401
CHILE	361
CHINA, NOS	681
CHINA, PEOPLE'S REPUBLIC	682
CHINA, REPUBLIC OF	684
CHRISTMAS ISLAND	723
CISSEL	545
COCHIN CHINA	665
COCOS ISLANDS	711
COLOMBIA	311
COLORADO	083
COMOROS	580
CONGO BELGIAN	541



CONGO BRAZZAVILLE	539
CONGO FRENCH	539
CONGO LEOPOLDVILLE	541
CONNECTICUT	007
COOK ISL (NEW ZEALAND)	124
CORSICA	441
COSTA RICA	256
COTE D'IVOIRE	539
CRETE	471
CROATIA	453
CUBA	241
CURACAO	245
CYPRUS	495
CYRENAICA	517
CZECH REPUBLIC	452
CZECHOSLOVAKIA	452
DAHOMEY	539
DALMATIA	453
DELAWARE	017
DENMARK	425
DJIBOUTI	583
DOBRUJA	449
DOMINICA	245
DOMINICAN REPUBLIC	243
DUTCH EAST INDIES	673
DUTCH GUIANA	332
EAST AFRICA, NOS	570
EAST GERMANY	431
ECUADOR	345
EGYPT	519
EIRE	410
EL SALVADOR	254
ELLICE ISL	125

ENDERBURY ISL	122
ENGLAND	401
EQUATORIAL AFRICA	500
EQUATORIAL GUINEA	539
ERITREA	585
ESTONIA	458
ESTONIAN S.S.R.	458
ETHIOPIA	585
EUROPE, NOS	499
EUROPE-CENTRAL, NOS	499
EUROPE-EASTERN, NOS	499
EUROPE-GERMANIC, NOS	430
EUROPE-MEDITER ILS NEC	490
EUROPE-OTHER MAINLAND, NOS	470
EUROPE-ROMANCE LANG, NOS	440
EUROPE-SLAVIC, NOS	450
FALKLAND ISLANDS	381
FAROE ISLANDS	425
FERNANDO PO	539
FIJI	721
FINLAND	429
FLORIDA	035
FORMOSA	684
FOTUNA	721
FRANCE/MONACO	441
FREE STATE	545
FRENCH GUIANA	333
FUTUNA ISLANDS	721
GABON	539
GALAPAGOS ISLANDS	345
GAMBIA	539
GAZA STRIP	631

GEORGIA	033
GEORGIA (USSR)	633
GERMAN DEMOCRATIC REPUBLIC	431
GERMANIC COUNTRIES	430
GERMANY	431
GERMANY, EAST	431
GERMANY, FEDERAL REPUBLIC OF	431
GERMANY, WEST	431
GHANA	539
GIBRALTAR	485
GILBERT ISLANDS	122
GREAT BRITAIN, NOS	400
GREECE	471
GREENLAND	210
GRENADA	245
GRENADINES	245
GUADALOUPE	245
GUAM	126
GUATAMALA	251
GUERNSEY	401
GUIANA BRITISH	331
GUIANA DUTCH	332
GUIANA FRENCH	333
GUINEA	539
GUINEA PORTUGUESE	539
GUINEA-BISSAU	539
GUYANA	331
HAITI	242
HAWAII	099
HOLLAND	432
HONDURAS	253
HONG KONG	683

HUNGARY	475
ICELAND	421
IDAHO	081
ILLINOIS	061
INDIA	641
INDIANA	045
INDO-CHINA, NOS	660
INDONESIA	673
IOWA	053
IRAN	637
IRAQ	627
IRAQ-SAUDI ARABIAN NEUTRAL ZONE	620
IRELAND	410
ISLE OF MAN	401
ISRAEL	631
ISSAS	583
ITALY/SAN MARINO	447
IVORY COAST (COTE D'IVOIRE)	539
JAMAICA	244
JAN MAYEN	423
JAPAN	693
JAVA	673
JERSEY	401
JOHNSTON ATOLL	127
JORDAN	625
KAMEROON	539
KAMPUCHEA	663
KANSAS	065
KAZAKH SSR	634
KAZAKHSTAN	634
KENTUCKY	047
KENYA	575

KIRGHIZ SSR	634
KIRIBATI	122
KOREA	695
KOREA, NORTH	695
KOREA, SOUTH	695
KUWAIT	629
KYRGYSTAN	634
KYRGYZ	634
LABRADOR	221
LAOS	661
LAPLAND, NOS	420
LATIN AMERICA, NOS	265
LATVIA	459
LATVIAN S.S.R.	459
LEBANON	623
LEEWARD ISL	245
LESOTHO	545
LIBERIA	539
LIBYA	517
LIECHTENSTEIN	437
LINE ISL SOUTHERN	122
LITHUANIA	461
LITHUANIAN S.S.R.	461
LOUISIANA	073
LUXEMBOURG	434
MACAO	686
MACAU	686
MACEDONIA	453
MADAGASCAR	555
MADEIRA ISL	445
MAINE	002
MALAGASY REPUBLIC	555
MALAWI	551

MALAY PENINSULA	671
MALAYSIA/SINGAPORE/BRUNEI	671
MALDIVES	640
MALI	520
MALTA	491
MANITOBA	224
MARSHALL ISL	131
MARTINIQUE	245
MARYLAND	021
MASSACHUSETTS	005
MAURITANIA	520
MAURITIUS	580
MAYOTTE	580
MEDITERRANEAN ISLANDS, OTHER	490
MELANESIA (MELANESIAN ISL)	721
MESOPOTAMIA	610
MEXICO	230
MICHIGAN	041
MICRONESIA	723
MICRONESIAN ISL	723
MIDWAY ISL	132
MINNESOTA	052
MIQUELON	249
MISSISSIPPI	039
MISSOURI	063
MOLDAVIA	456
MOLDAVIAN S.S.R.	456
MOLDOVA	456
MONACO	441
MONGOLIA	691
MONTANA	056
MONTENEGRO	453

MONTSERRAT	245
MORAVIA	452
MOROCCO	511
MOZAMBIQUE	553
MYANMAR	649
NAMIBIA	545
NAMPO SHOTO SOUTHERN	133
NATAL	545
NAURU	723
NEBRASKA	067
NEPAL/BHUTAN/SIKKIM	643
NETHERLANDS	432
NETHERLANDS ANTILLES	245
NEVADA	085
NEVIS	245
NEW BRUNSWICK	221
NEW CALEDONIA	725
NEW ENGLAND	001
NEW GUINEA AUSTRALIAN	711
NEW GUINEA NORTHEAST	711
NEW GUINEA PAPUA	711
NEW GUINEA, NOS	673
NEW HAMPSHIRE	003
NEW HEBRIDES	721
NEW JERSEY	008
NEW MEXICO	086
NEW YORK	011
NEW ZEALAND	715
NEWFOUNDLAND	221
NICARAGUA	255
NIGER	520
NIGERIA	531
NIUE	715

NORFOLK ISLANDS	711
NORTH AFRICA, NOS	510
NORTH AMERICA	260
NORTH AMERICAN ISL, NOS	240
NORTH CAROLINA	025
NORTH DAKOTA	054
NORTHERN IRELAND	404
NORTHWEST TERRITORY	225
NORWAY	423
NOT US, NOS	998
NOVA SCOTIA	221
NYASALAND	551
OCEANA, NOS	720
OHIO	043
OKINAWA	693
OKLAHOMA	075
OMAN AND MUSCAT	629
ONTARIO	223
ORANGE FREE STATE	545
OREGON	095
ORKNEY ISLANDS	403
PACIFIC ISL, NOS	720
PACIFIC ISLANDS, TRUST TERRITORY	123
PAKISTAN EAST	645
PAKISTAN WEST	639
PAKISTAN, NOS	639
PALAU	139
PALESTINE ARAB	625
PALESTINE JEWISH	631
PALESTINIAN NATIONAL AUTHORITY-PNA	631
PANAMA	257
PAPUA	711



PARAGUAY	371
PENNSYLVANIA	014
PERSIA	637
PERSIAN GULF STATES, NOS	629
PERU	351
PHILIPPINES	675
PHOENIX ISLANDS	122
PITCAIRN	725
POLAND	451
POLYNESIA	725
POLYNESIA, NOS	720
POLYNESIAN ISL	725
PORTUGAL	445
PORTUGUESE GUINEA	539
PRINCE EDWARD ISL	221
PRINCIPE	543
PUERTO RICO	101
QATAR	629
QUATAR	629
QUEBEC	222
REPUBLIC OF CHINA	684
REPUBLIC OF IRELAND	410
REPUBLIC OF SOUTH AFRICA	545
REUNION	580
RHODE ISLAND	006
RHODESIA	547
RHODESIA NORTHERN	549
RHODESIA SOUTHERN	547
RIO MUNI	539
ROMANIA	449
RUANDA	577
RUMANIA	449
RUSSIA, NOS	455

RUSSIAN FEDERATION (FORMER U.S.S.R.)	455
RUSSIAN S.F.S.R.	455
RWANDA	577
RYUKYU ISL (JAPAN)	134
SAHARA	520
SAMOA AMERICAN	121
SAMOA, WESTERN	725
SAN MARINO	447
SAO TOME	543
SARDINIA	447
SASKATCHEWAN	224
SAUDI ARABIA	629
SCANDANAVIA NOS	420
SCOTLAND	403
SENEGAL	539
SERBIA	453
SEYCHELLES	580
SHETLAND ISLANDS	403
SIAM	651
SICILY	447
SIERRA LEONE	539
SIKKIM	643
SINGAPORE	671
SLAVIC COUNTRIES	450
SLAVONIA	453
SLOVAK REPUBLIC	452
SLOVAKIA	452
SLOVENIA	453
SOLOMON ISLANDS	721
SOMALI REPUBLIC	581
SOMALIA	581
SOMALILAND FRENCH	583

SOMALILAND, NOS	581
SOUTH AFRICA, NOS	540
SOUTH AMERICA, NOS	300
SOUTH AMERICAN ISLANDS	380
SOUTH CAROLINA	026
SOUTH DAKOTA	055
SOUTH WEST AFRICA	545
SOUTHERN EUROPE, NOS	499
SOUTHERN LINE ISLANDS	122
SPAIN/ANDORRA	443
SPANISH SAHARA	520
SRI LANKA	647
ST. CHRISTOPHER-NEVIS	245
ST. HELENA	580
ST. KITTS	245
ST. LUCIA	249
ST. PIERRE	249
ST. VINCENT	245
SUDAN	520
SUMATRA	673
SURINAM	332
SVALBARD	423
SWAN ISL	135
SWAZILAND	545
SWEDEN	427
SWITZERLAND	435
SYRIA	621
TADZHIK SSR	634
TAIWAN	684
TAJIKISTAN	634
TANGANYIKA	571
TANZANIA	571
TANZANYIKA	571

TENNESSEE	031
TEXAS	077
THAILAND	651
TIBET	685
TOBAGO	245
TOGO	539
TOKELAU ISL (NEW ZEALAND)	136
TONGA	725
TONKIN	665
TRANS-JORDAN	625
TRANSKEI	545
TRANSVAAL	545
TRANSYLVANIA	449
TRINIDAD	245
TRIPOLI	517
TRIPOLITANIA	517
TRUCIAL STATES	629
TUNISIA	515
TURKEY	611
TURKMEN SSR	634
TURKMENISTAN	634
TURKS ISLANDS	245
TUVALU ISLANDS	125
UGANDA	573
UKRAINE/MOLDAVIA	456
UKRANIAN S.S.R.	456
ULSTER	404
UNION OF SOUTH AFRICA	545
UNITED ARAB EMIRATES	629
UNITED ARAB REPUBLIC	519
UNITED KINGDOM, NOS	400
UNITED STATES, NOS	000
UNKNOWN	999

UPPER VOLTA	520
URUGUAY	375
URUNDI	579
US POSS-ATL/CARIB, NOS	100
US POSS-PACIFIC	120
US, NOS	000
US-CENTRAL MIDWEST, NOS	060
US-MOUNTAIN STATES, NOS	080
US-NEW ENGLAND, NOS	001
US-NORTH ATLANTIC, NOS	010
US-NORTH CENTRAL, NOS	040
US-NORTH MIDWEST, NOS	050
US-PACIFIC STATES, NOS	090
US-SOUTH MID ATLANTIC, NOS	020
US-SOUTH MIDWEST, NOS	070
US-SOUTHEASTERN, NOS	030
USSR, NOS	455
UTAH	084
UZBECK SSR	634
UZBEKISTAN	634
VANUATU	721
VATICAN CITY	447
VENDA	545
VENEZUELA	321
VERMONT	004
VIET NAM	665
VIETNAM	665
VIRGIN ISL - US	102
VIRGIN ISLANDS, BRITISH	245
VIRGINIA	023
WAKE ISLAND	137
WALES	402

WALLACHIA	449
WALLIS ISLANDS	721
WASHINGTON	093
WASHINGTON DC	022
WEST AFRICA, FRENCH	530
WEST AFRICAN COUNTRIES, OTHER	539
WEST BANK	631
WEST GERMANY	431
WEST INDIES	245
WEST INDIES, NOS	245
WEST VIRGINIA	024
WESTERN SAHARA	520
WESTERN SAMOA	725
WHITE RUSSIA	457
WINDWARD ISLANDS	245
WISCONSIN	051
WYOMING	082
YEMEN	629
YEMEN, PEOPLE'S DEMOCRATIC REPUBLIC	629
YEMEN, SOUTHERN	629
YUGOSLAVIA	453
YUKON	225
ZAIRE	541
ZAMBIA	549
ZANZIBAR	571
ZIMBABWE	547

**APPENDIX D.2**

**CODES FOR COUNTRIES**

(In numerical order, (see alphabetical order)

includes codes for U.S. states and territories)

000	UNITED STATES, NOS
000	US NOS
001	NEW ENGLAND
001	US-NEW ENGLAND, NOS
002	MAINE
003	NEW HAMPSHIRE
004	VERMONT
005	MASSACHUSETTS
006	RHODE ISLAND
007	CONNECTICUT
008	NEW JERSEY
010	US-NORTH ATLANTIC, NOS
011	NEW YORK
014	PENNSYLVANIA
017	DELAWARE
020	US-SOUTH MID ATLANTIC, NOS
021	MARYLAND
022	WASHINGTON DC
023	VIRGINIA
024	WEST VIRGINIA
025	NORTH CAROLINA
026	SOUTH CAROLINA
030	US-SOUTHEASTERN, NOS
031	TENNESSEE

033	GEORGIA
035	FLORIDA
037	ALABAMA
039	MISSISSIPPI
040	US-NORTH CENTRAL, NOS
041	MICHIGAN
043	OHIO
045	INDIANA
047	KENTUCKY
050	US-NORTH MIDWEST, NOS
051	WISCONSIN
052	MINNESOTA
053	IOWA
054	NORTH DAKOTA
055	SOUTH DAKOTA
056	MONTANA
060	US-CENTRAL MIDWEST, NOS
061	ILLINOIS
063	MISSOURI
065	KANSAS
067	NEBRASKA
070	US-SOUTH MIDWEST, NOS
071	ARKANSAS
073	LOUISIANA
075	OKLAHOMA
077	TEXAS
080	US-MOUNTAIN STATES, NOS
081	IDAHO
082	WYOMING
083	COLORADO
084	UTAH
085	NEVADA
086	NEW MEXICO



087	ARIZONA
090	US-PACIFIC STATES, NOS
091	ALASKA
093	WASHINGTON
095	OREGON
097	CALIFORNIA
099	HAWAII
100	US POSS-ATL/CARIB, NOS
101	PUERTO RICO
102	VIRGIN ISL - US
109	ATLAN/CARIB US OTHER
110	CANAL ZONE
120	US POSS-PACIFIC
121	AMERICAN SAMOA
121	SAMOA AMERICAN
122	CANTON/ENDERBURY ISL
122	ENDERBURY ISL
122	GILBERT ISLANDS
122	LINE ISLANDS, SOUTHERN
122	PHOENIX ISLANDS
122	SOUTHERN LINE ISLANDS
123	CAROLINE ISL, MICRONESIA (FEDERAL STATES OF)
124	COOK ISLAND (NEW ZEALAND)
125	TUVALU (ELLICE ISLANDS)
126	GUAM
127	JOHNSTON ATOLL
129	MARIANA ISL
131	MARSHALL ISL
132	MIDWAY ISL
133	NAMPO SHOTO SOUTHERN
134	RYUKYU ISLAND (JAPAN)
135	SWAN ISL
136	TOKELAU ISLAND (NEW ZEALAND)

137	WAKE ISLAND
139	PALAU
200	WESTERN HEMISPHERE, NOS
210	GREENLAND
220	CANADA, NOS
221	CANADA-MARITIME PROVINCE
221	LABRADOR
221	NEW BRUNSWICK
221	NEWFOUNDLAND
221	NOVA SCOTIA
221	PRINCE EDWARD ISL
222	QUEBEC
223	ONTARIO
224	ALBERTA
224	CANADA-PRAIRIE PROVINCE
224	MANITOBA
224	SASKATCHEWAN
225	CANADA-NW TERR/YUKON
225	NORTHWEST TERRITORY
225	YUKON
226	BRITISH COLUMBIA
227	CANADA- NUNAVUT
230	MEXICO
240	NORTH AMERICAN ISL, NOS
241	CUBA
242	HAITI
243	DOMINICAN REPUBLIC
244	JAMAICA
245	ANGUILLA
245	ANTIGUA
245	ANTILLES
245	ARUBA
245	BARBADOS

245	BARBUDA
245	CAICOS ISLANDS
245	CARIBBEAN ISL NEC
245	CAYMAN ISLANDS
245	CURACAO
245	DOMINICA
245	GRENADINES
245	GRENADA
245	GUADALOUPE
245	LEEWARD ISLANDS
245	MARTINIQUE
245	MONTSERRAT
245	NETHERLANDS ANTILLES
245	ST. CHRISTOPHER-NEVIS
245	ST. KITTS
245	ST. LUCIA
245	ST. VINCENT
245	TOBAGO
245	TRINIDAD
245	TURKS ISLANDS
245	VIRGIN ISLANDS, BRITISH
245	WEST INDIES, BRITISH
245	WEST INDIES, NOS
245	WINDWARD ISLANDS
246	BERMUDA
247	BAHAMAS
249	ST. PIERRE AND MIQUELON
250	CENTRAL AMERICA, NOS
251	GUATAMALA
252	BELIZE
252	BRITISH HONDURAS
253	HONDURAS
254	EL SALVADOR

255	NICARAGUA
256	COSTA RICA
257	PANAMA
260	AMERICA, NORTH
260	NORTH AMERICA, NOS
265	LATIN AMERICA, NOS
300	SOUTH AMERICA, NOS
311	COLOMBIA
321	VENEZUELA
331	BRITISH GUIANA
331	GUIANA BRITISH
331	GUYANA
332	DUTCH GUIANA
332	GUIANA DUTCH
332	SURINAM
333	FRENCH GUIANA
333	GUIANA FRENCH
341	BRAZIL
345	ECUADOR
345	GALAPAGOS ISLANDS
351	PERU
355	BOLIVIA
361	CHILE
365	ARGENTINA
371	PARAGUAY
375	URUGUAY
380	SOUTH AMERICAN ISLANDS
381	FALKLAND ISLANDS
400	GREAT BRITAIN, NOS
400	UNITED KINGDOM, NOS
401	CHANNEL ISL
401	ENGLAND
401	GUERNSEY

401	ISLE OF MAN
401	JERSEY
402	WALES
403	ORKNEY ISLANDS
403	SCOTLAND
403	SHETLAND ISLANDS
404	NORTHERN IRELAND
404	ULSTER
410	EIRE
410	IRELAND
410	REPUBLIC OF IRELAND
420	LAPLAND, NOS
420	SCANDANAVIA, NOS
421	ICELAND
423	JAN MAYEN
423	NORWAY
423	SVALBARD
425	DENMARK
425	FAROE ISLANDS
427	SWEDEN
429	FINLAND
430	EUROPE-GERMANIC, NOS
431	BAVARIA
431	GERMANY
432	HOLLAND
432	NETHERLANDS
433	BELGIUM
434	LUXEMBOURG
435	SWITZERLAND
436	AUSTRIA
437	LIECHTENSTEIN
440	EUROPE-ROMANCE LANG, NOS
441	CORSICA

441	FRANCE/MONACO
441	MONACO
443	ANDORRA
443	BALEARIC ISL
443	CANARY ISL
443	SPAIN/ANDORRA
445	AZORES
445	CAPE VERDE ISL
445	MADEIRA ISL
445	PORTUGAL
447	ITALY/SAN MARINO
447	SAN MARINO
447	SARDINIA
447	SICILY
447	VATICAN CITY
449	DOBRUJA
449	MOLDAVIA RUMANIA
449	ROMANIA
449	RUMANIA
449	TRANSYLVANIA
449	WALLACHIA
450	EUROPE-SLAVIC, NOS
451	POLAND
452	BOHEMIA
452	CZECH REPUBLIC
452	CZECHOSLOVAKIA
452	MORAVIA
452	SLOVAKIA
452	SLOVAK REPUBLIC
453	BOSNIA-HERZOGOVINA
453	CROATIA
453	DALMATIA
453	MACEDONIA

453	MONTENEGRO
453	SERBIA
453	SLAVONIA
453	SLOVENIA
453	YUGOSLAVIA (FORMER)
454	BULGARIA
455	RUSSIA, NOS (RUSSIAN S.F.S.R.)
455	RUSSIAN FEDERATION (FORMER) U.S.S.R
455	RUSSIA
455	USSR, NOS
456	BESSARABIA
456	MOLDAVIA
456	MOLDAVIAN SSR
456	UKRAINE/MOLDOVA
456	UKRANIAN SSR
457	BELARUS
457	BYELORUSSIA
457	WHITE RUSSIA
458	ESTONIA (ESTONIAN SSR)
459	LATVIA (LATVIAN SSR)
461	LITHUANIA (LITHUANIAN SSR)
463	BALTIC REPUBLIC(S), NOS
470	EUROPE-OTHER MAINLAND, NOS
471	CRETE
471	GREECE
475	HUNGARY
481	ALBANIA
485	GIBRALTAR
490	EUROPE-MEDITER ILS NEC
491	MALTA
495	CYPRUS
499	CENTRAL EUROPE, NOS
499	EASTERN EUROPE, NOS

499	EUROPE, NOS
499	NORTHERN EUROPE, NOS
499	SOUTHERN EUROPE, NOS
499	WESTERN EUROPE, NOS
500	EQUATORIAL AFRICA, NOS
500	AFRICA, NOS
500	CENTRAL AFRICA, NOS
510	NORTH AFRICA NOS
511	MOROCCO
513	ALGERIA
515	TUNISIA
517	CYRENAICA
517	LIBYA
517	TRIPOLITANIA
517	TRIPOLI
519	EGYPT
519	UNITED ARAB REPUBLIC
520	AFRICA-SUDANESE COUNTRIES
520	BURKINA FASO (UPPER VOLTA)
520	CHAD
520	MALI
520	MAURITANIA
520	NIGER
520	SAHARA
520	SUDAN
520	WESTERN (SPANISH) SAHARA
530	FRENCH WEST AFRICA, NOS
530	WEST AFRICA
531	NIGERIA
539	AFRICA-CENTRAL (OTHER WEST)
539	BENIN
539	CAMEROON
539	CENTRAL AFRICAN REPUBLIC



539	CONGO
539	CONGO FRENCH
539	CONGO BRAZZAVILLE
539	COTE D'IVOIRE (IVORY COAST)
539	DAHOMEY
539	EQUATORIAL GUINEA
539	FERNANDO PO
539	GABON
539	GAMBIA
539	GHANA
539	GUIANA BISSAU
539	GUIANA PORTUGUESE
539	GUINEA
539	KAMEROON
539	LIBERIA
539	PORTUGUESE GUINEA
539	RIO MUNI
539	SENEGAL
539	SIERRA LEONE
539	TOGO
540	SOUTH AFRICA, NOS
541	CONGO BELGIAN
541	CONGO LEOPOLDVILLE
541	CONGO/KINSHASA
541	ZAIRE
543	ANGOLA
543	CABINDA
543	PRINCIPE
543	SAO TOME
545	BASUTOLAND
545	BECHUANALAND
545	BOPHUTHATSWANA
545	BOTSWANA

545	CAPE COLONY
545	CISKEL
545	FREE STATE (ORANGE FREE STATE)
545	LESOTHO
545	NAMIBIA
545	NATAL
545	REPUBLIC OF SOUTH AFRICA
545	SOUTH WEST AFRICA
545	SWAZILAND
545	TRANSKEI
545	TRANSVAAL
545	UNION OF SOUTH AFRICA
545	VENDA
547	RHODESIA SOUTHERN
547	RHODESIA
547	ZIMBABWE
549	RHODESIA NORTHERN
549	ZAMBIA
551	MALAWI
551	NYASALAND
553	MOZAMBIQUE
555	MADAGASCAR
555	MALAGASY REPUBLIC
570	EAST AFRICA, NOS
571	TANGANYIKA
571	TANZANIA
571	TANZANYIKA
571	ZANZIBAR
573	UGANDA
575	KENYA
577	RUANDA
577	RWANDA
579	BURUNDI

579	URUNDI
580	AFRICAN COASTAL ISLANDS
580	COMOROS
580	MAURITIUS
580	MAYOTTE
580	REUNION
580	SEYCHELLES
580	ST. HELENA
581	SOMALIA
581	SOMALILAND, NOS
581	SOMALI REPUBLIC
583	AFARS/ISSAS
583	DJIBOUTI
583	ISSAS
583	SOMALILAND FRENCH
585	ABYSSINIA
585	ERITREA
585	ETHIOPIA
600	ASIA, NOS
610	ASIA-NEAR EAST, NOS
610	MESOPOTAMIA
611	ANATOLIA
611	ASIA MINOR, NOS
611	TURKEY
620	ASIA-ARAB COUNTRIES, NOS
620	IRAQ-SAUDI ARABIA NEUTRAL ZONE
621	SYRIA
623	LEBANON
625	JORDAN
625	PALESTINE ARAB
625	TRANS-JORDAN
627	IRAQ
629	ADEN

629	ARABIAN PENINSULA
629	ARABIA
629	BAHRAIN
629	KUWAIT
629	OMAN AND MUSCAT
629	PERSIAN GULF STATES, NOS
629	QATAR
629	QUATAR
629	SAUDI ARABIA
629	TRUCIAL STATES
629	UNITED ARAB EMIRATES
629	YEMEN
631	GAZA
631	ISRAEL
631	PALESTINE (PALESTINIAN NATIONAL AUTHORITY-PNA)
631	WEST BANK
633	ARMENIA
633	AZERBAIDZHAN SSR
633	AZERBAIJAN
633	CAUCASIAN REPUBLICS OF FORMER USSR
633	GEORGIA (USSR)
634	KAZAKHSTAN
634	KAZAKH SSR
634	KIRGHIZ SSR
634	KYRGYSTAN
634	OTHER ASIAN REPUBLICS OF FORMER USSR
634	TADZHIK SSR
634	TAJIKISTAN
634	TURKMEN SSR
634	TURMENISTAN
634	UZBECK SSR
634	UZBEKISTAN
637	IRAN

637	PERSIA
638	AFGHANISTAN
639	PAKISTAN NOS
639	PAKISTAN WEST
640	ASIA-MID-EAST, NOS
640	MALDIVES
641	ANDAMAN ISLANDS
641	INDIA
643	BHUTAN
643	NEPAL/BHUTAN/SIKKIM
643	SIKKIM
645	BANGLADESH
645	PAKISTAN EAST
647	CEYLON
647	SRI LANKA
649	BURMA
649	MYANMAR
650	ASIA-SOUTHEAST, NOS
651	SIAM
651	THAILAND
660	INDO-CHINA, NOS
661	LAOS
663	CAMBODIA
663	KAMPUCHEA
665	ANNAM
665	COCHIN CHINA
665	TONKIN
665	VIET NAM
665	VIETNAM
671	BRUNEI
671	MALAY PENINSULA
671	MALAYSIA/SINGAPORE/BRUNEI
671	SINGAPORE

673	BORNEO
673	DUTCH EAST INDIES
673	INDONESIA
673	JAVA
673	NEW GUINEA, NOS
673	SUMATRA
675	PHILIPPINES
680	ASIA-EAST, NOS
681	CHINA, NOS
682	CHINA, PEOPLE'S REPUBLIC
683	HONG KONG
684	CHINA, REPUBLIC OF
684	FORMOSA
684	REPUBLIC OF CHINA
684	TAIWAN
685	TIBET
686	MACAO
686	MACAU
691	MONGOLIA
693	JAPAN
693	OKINAWA
695	KOREA
695	NORTH KOREA
695	SOUTH KOREA
711	AUSTRALIA/AUST NEW GUINEA
711	CARTIER ISLANDS
711	COCOS ISLANDS
711	NEW GUINEA AUSTRALIAN
711	NEW GUINEA NORTHEAST
711	NEW GUINEA PAPUA
711	NORFOLK ISLANDS
711	PAPUA
715	NEW ZEALAND

715	NIUE
720	OCEANA, NOS
720	PACIFIC ISL, NOS
720	POLYNESIA, NOS
721	FIJI
721	FOTUNA
721	FUTUNA ISLANDS
721	MELANESIA (MELANESIA ISLANDS)
721	NEW HEBRIDES
721	SOLOMON ISLANDS
721	VANUATA
721	WALLIS ISLANDS
723	CHRISTMAS ISLAND
723	MICRONESIA (MICRONESIAN ISLANDS)
723	NAURU
725	NEW CALEDONIA
725	PITCAIRN
725	POLYNESIA (POLYNESIAN ISLANDS)
725	SAMOA, WESTERN
725	TONGA
725	WESTERN SAMOA
750	ANTARCTICA
998	NOT US NOS
999	UNKNOWN

## APPENDIX E

### **RULES FOR DETERMINING RESIDENCY OF MILITARY PERSONNEL ASSIGNED TO SHIPS AND CREWS OF MERCHANT VESSELS**

Cancer reporting facilities that serve patients in the U.S. Navy or Merchant Marine need detailed rules for determining whether their patients are residents of their region for purposes of cancer reporting. The rules for determining residency are the same as those used by the Census Bureau. The guidelines that follow were adapted from U.S. Department of Commerce publications.

*Note: Also see Appendix B - Postal Code Abbreviations, for military personnel serving abroad.*

#### **NAVY PERSONNEL**

Patients diagnosed with cancer while their ships are deployed overseas are considered overseas residents for cancer-reporting purposes. For ships not deployed overseas, specific rules (shown in the chart below) apply. The Navy assigns a homeport to each of its ships. If a ship that is not deployed overseas is not berthed in its homeport, any crew member diagnosed with cancer is considered a resident of the homeport. If the ship is berthed in its homeport, and the homeport has fewer than 1000 naval personnel assigned to ships, a crew member diagnosed with cancer is considered a resident of the ship. If, however, the homeport has more than 1000 naval personnel assigned to ships and the cancer patient has a usual residence within 50 miles of the homeport, the person's residence is the home, not the ship itself. If the patient's usual residence is more than 50 miles from the homeport, he or she is considered to be a resident of the ship. For patients who are considered residents of a ship, code residence as the ship's homeport unless the homeport is contained in more than one municipality. In that case, code the patient's residence as the municipality immediately adjacent to the dock or pier where the ship is berthed.

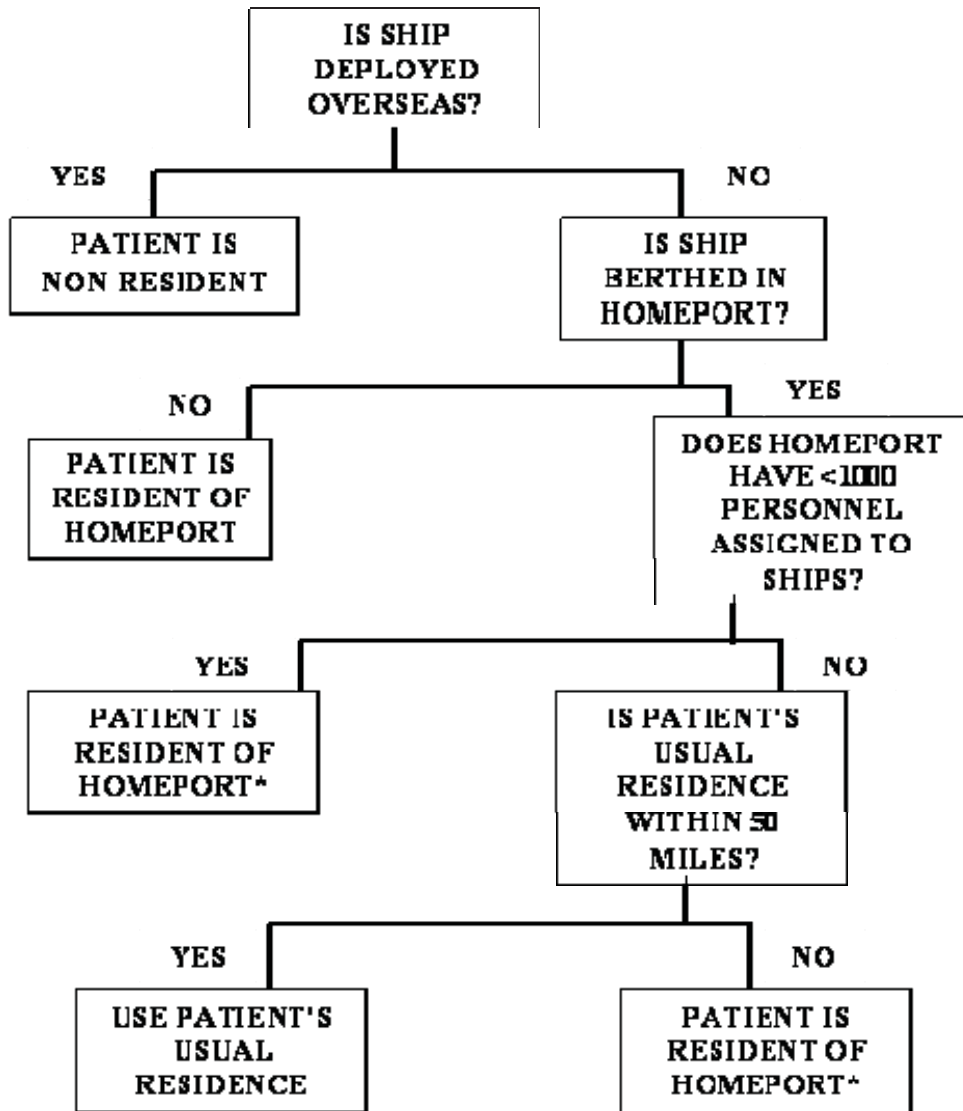
#### **CREWS OF MERCHANT VESSELS**

Crews of U.S. vessels outside the U.S., or crews of vessels flying a foreign flag, are considered non-residents. If a U.S. vessel is not berthed in a U.S. port but is in territorial waters, and the port of destination is inside the U.S., a crew member diagnosed with cancer is considered a resident of the port of destination. If the destination is outside the U.S., the homeport of the ship is considered the patient's residence. If a U.S. vessel is berthed in a U.S. port at the time of diagnosis, the patient is a resident of that port.

#### **CHART**

##### **Summary of Rules for Determining Residency of Navy Personnel Assigned to Ships**





\* If homeport is maintained in more than municipality, code patient as resident of the municipality immediately adjacent to the dock or pier where the ship is berthed.

## **APPENDIX F**

### **CALIFORNIA HOSPITAL CODE NUMBERS**

Appendix F1 and F2 have been deleted from Volume I. California Hospital lists by facility code or facility name are now posted on the CCR web site at the following links:

Code Numbers (Sorted by Code in Ascending Numeric Order)

<http://www.ccrca.org/PDF-DSQC/CAHospLabels-1.7.0.17-Code.pdf>

Code Numbers (Sorted by Facility in Ascending Alphabetic Order)

<http://www.ccrca.org/PDF-DSQC/CAHospLabels-1.7.0.17-Alpha.pdf>

**APPENDIX G.1**

**CODES FOR RELIGIONS**

(in numerical order) (see alphabetical order)

01	NONE
02	AGNOSTIC
03	ATHEIST
04	*NONE, AGNOSTIC, ATHEIST (OLD)
05	*ROMAN CATHOLIC
05	CATHOLIC
06	CHRISTIAN, NOS
06	PROTESTANT, NOS

**PROTESTANT DENOMINATIONS:**

07	*AFRICAN METHODIST EPISCOPAL (AME)
08	ANGLICAN
08	CHURCH OF ENGLAND
09	BAPTIST
10	COMMUNITY
11	CONGREGATIONAL
12	EPISCOPALIAN
13	LUTHERAN
14	METHODIST
15	PRESBYTERIAN
16	UNITARIAN
17	*PROTESTANT DENOMINATION, OTHER
18	CHRISTIAN REFORMED
19	DISCIPLES OF CHRIST
20	*DUTCH REFORMED
21	FIRST CHRISTIAN

22	INTERDENOMINATIONAL
23	MORAVIAN
24	NON-DENOMINATIONAL
25	SEAMAN'S CHURCH
26	TRINITY
27	UNIVERSAL
28	PROTESTANT, OTHER

**ORTHODOX:**

29	ARMENIAN ORTHODOX
29	ORTHODOX, ARMENIAN
30	*COPTIC
31	GREEK ORTHODOX
31	ORTHODOX, GREEK
32	ORTHODOX, RUSSIAN
32	RUSSIAN ORTHODOX
33	SERBIAN ORTHODOX
33	ORTHODOX, SERBIAN
34	*LEBANESE MARONITE
34	*MARONITE
34	*ORTHODOX, CHRISTIAN, OTHER
34	*ORTHODOX, CHRISTIAN, NOS

**CHRISTIAN SECTS:**

35	JEHOVAH'S WITNESSES
36	CHRISTIAN SCIENCE
37	MORMON
37	LATTER DAY SAINTS
38	SEVENTH-DAY ADVENTIST
39	FRIENDS
39	QUAKER

**CHRISTIAN SECTS-OTHER:**

40	AMISH
41	MENNONITES
42	APOSTOLIC
43	ARMENIAN APOSTOLIC
44	ASSEMBLIES OF GOD
45	BRETHREN
45	BROTHERS
46	CHRISTIAN APOSTOLIC
47	CHURCH OF ARMEDIAN
48	CHURCH OF CHRIST
49	CHURCH OF GOD
50	CHURCH OF MESSIANITY
51	CHURCH OF THE DIVINE
52	CHURCH OF THE OPEN DOOR
53	CONGREGATIONAL HOLY
53	HOLY CONGREGATIONAL
54	COVENANT
55	DIVINE SCIENCE
56	EVANGELICAL
57	FUNDAMENTAL
58	FOURSQUARE
59	FULL GOSPEL
60	HOLINESS
61	HOLY INNOCENTS
62	NAZARENE
63	NEW APOSTOLIC
64	PENTECOSTAL
65	RELIGIOUS SCIENCE
66	SALVATION ARMY
67	SCIENCE OF MIND
68	UNITY
69	*CHRISTIAN SECTS, OTHER
70	JEWISH

71 \*ORTHODOX JEWISH  
71 \*JEWISH ORTHODOX

**WESTERN OTHER:**

72 BAHA'I  
73 CRICKORIAN  
73 ETHICAL CULTURE  
73 GREGORIAN  
73 LAWSONIAN  
73 MASON  
73 METAPHYSICS  
73 OCCULT  
73 PEACE OF MIND  
73 PEOPLE'S  
73 SELF-REALIZATION  
73 SOCIETY OF LIFE  
73 SPIRITUALIST  
73 THEOSOPHY  
73 TRUTH SEEKER  
74 MOLIKAN  
74 MOLOKAN  
75 \*WESTERN RELIGION OR CREED, OTHER  
75 \*WESTERN RELIGION OR CREED, NOS  
76 KO

**EASTERN RELIGIONS:**

77 BUDDHIST  
77 \*ZEN  
77 \*ZEN BUDDHISM  
78 DROUZE  
79 \*CONFUCIANISM  
79 \*TAOISM  
80 \*JAIN

81	*NATION OF ISLAM
82	MOSLEM
82	MUSLIM
82	MOHAMMEDAN
83	HINDU
84	ISLAM
85	*PARSEE
85	ZOROASTRIAN
86	SHINTO
87	*SIKH
88	VEDANTA
89	ORIENTAL PHILOSOPHY
89	*EASTERN RELIGION, OTHER
89	*EASTERN RELIGION, NOS
90	*AMERICAN INDIAN RELIGIONS
90	*NATIVE AMERICAN TRADITIONAL RELIGIONS
91	*HAITIAN/AFRICAN/BRAZILIAN RELIGIONS, OTHER
91	*SANTORIA
91	*VOODOO
92	*SHAMANISM
93	*OTHER TRADITIONAL OR NATIVE RELIGION
<b>94</b>	<b><i>Scientology</i></b>
98	*OTHER
99	UNSPECIFIED, UNKNOWN

\*NEW OR REVISED LABEL

**APPENDIX G.2**

**CODES FOR RELIGIONS**

(in alphabetical order)

(see numerical order)

AFRICAN METHODIST EPISCOPAL (AME)	07
AGNOSTIC	02
AMERICAN INDIAN RELIGIONS	90
AMISH	40
ANGLICAN	08
APOSTOLIC	42
ARMENIAN APOSTOLIC	43
ARMENIAN ORTHODOX	29
ASSEMBLIES OF GOD	44
ATHEIST	03
BAHA'I	72
BAPTIST	09
BRETHREN	45
BROTHERS	45
BUDDHIST	77
CATHOLIC	05
CHRISTIAN APOSTOLIC	46
CHRISTIAN REFORMED	18
CHRISTIAN SCIENCE	36
CHRISTIAN SECTS, OTHER	69
CHRISTIAN, NOS	06
CHURCH OF ARMEDIAN	47
CHURCH OF CHRIST	48
CHURCH OF ENGLAND	08
CHURCH OF GOD	49
CHURCH OF MESSIANITY	50
CHURCH OF THE DIVINE	51



CHURCH OF THE OPEN DOOR	52
COMMUNITY	10
CONFUCIANISM	79
CONGREGATIONAL HOLY	53
CONGREGATIONAL	11
COPTIC	30
COVENANT	54
CRICKORIAN	73
DISCIPLES OF CHRIST	19
DIVINE SCIENCE	55
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## California Cancer Registry Volume I: Data Standards and Data Dic

Source: *Cancer Reporting in California: Abstracting and Coding Procedures for Hospitals and Cancer Reporting System Standards, Vol. I*, updated May 2008

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## APPENDIX J

### PATIENT INFORMATION SHEET

CCR suggests the following statement be used by hospitals and physicians in notifying their patients that cancer ***and other specific benign and borderline tumors are reportable entities:***

### CALIFORNIA CANCER REPORTING SYSTEM

#### PATIENT INFORMATION SHEET

California Department of Health Services (CDHS) is mandated under state law (Health and Safety Code, Section 103885) to gather information on the amount and type of cancer occurring throughout the state. ***Beginning January 1, 2001 and forward, diagnoses of borderline and benign primary intracranial and central nervous system (CNS) tumors are also reportable, as well as borderline ovarian cancer and Newly Reportable Hematopoietic Diseases (NRHD) listed below. The purpose of the law is to help identify preventable causes of cancer and specific borderline and benign tumors.***

For the system to be useful, it must obtain complete and accurate counts of all new cancers ***and reportable tumors*** that occur. Therefore the new law requires hospitals and physicians to notify the appropriate regional registry of each new case of cancer ***and reportable tumor***.

The information collected is confidential under California Health and Safety Code Sections 100330 and 103885, Civil Code, Sections 56.05 and 1798, Government Code, Sections 6250-62-65, and Federal Law PL 104-191. CDHS has more than 50 years' experience in handling confidential records. Laws, regulations and programmatic safeguards are in place throughout the system to assure that the identities of patients are not revealed. Some cancer patients may, however, be contacted later by CDHS or the regional cancer registries as part of their ongoing investigations into the causes of cancer.

***NRHD include the following :***

***Chronic Myeloproliferative Diseases***

- ***Polycythemia vera***
- ***Chronic myeloproliferative disease***
- ***Myelosclerosis with myeloid metaplasia***
- ***Essential thrombocythemia***
- ***Chronic neutrophilic leukemia***
- ***Hypereosinophilic syndrome***

***Myelodysplastic Syndromes***

- ***Refractory anemia***
- ***Refractory anemia with sideroblasts***
- ***Refractory anemia with excess blasts***
- ***Refractory anemia with excess blasts***

***in Transformation***

- ***Refractory cytopenia with multilineage***

***Dysplasia***

- ***Myelodysplastic syndrome with 5q-syndrome***
- ***Therapy-related myelodysplastic syndrome***

***Other New Diagnoses***

- ***Langerhans cell histiocytosis, disseminated***
- ***Acute biphenotypic leukemia***
- ***Precursor lymphoblastic leukemia***
- ***Aggressive NK cell leukemia***
- ***Chronic neutrophilic leukemia***
- ***Hypereosinophilic syndrome***
- ***Leukemias with cytogenetic abnormalities***
- ***Dendritic cell sarcoma.***

## APPENDIX K

### SCREENING LIST OF ICD-9-CM CODES FOR CASEFINDING

Certain ICD-9-CM\* codes used by medical records departments for discharge diagnoses identify cases of malignant neoplasms that are reportable to the California Cancer Registry. Case finding procedures should include the review of medical records coded with the following numbers. Newly reportable diseases are followed by the ICD-O-3 morphology and behavior code in parentheses.

#### January 1, 2007 and Forward

For Casefinding starting January 1, 2007 and forward, use the following screening list.

#### ICD-9- CM\* CODE

042	AIDS (review cases for AIDS-related malignancies)
140.0- 208.9	Malignant neoplasms (primary and secondary)
203.1	Plasma cell leukemia (9733/3)
205.1	Chronic neutrophilic leukemia (9963/3)
225.0- 227.4	Benign central nervous system neoplasms
230.0- 234.9	Carcinoma in situ (exclude skin codes 232.0-232.9, and cervix code 233.1)
235.0- 238.9	Neoplasms of uncertain behavior
236.2	Ovarian neoplasms of uncertain behavior (8442/1, 8451/1, 8462/1, 8472/1, 8473/1)
237.0- 237.9	Central nervous system neoplasms of uncertain behavior
238.4	Polycythemia vera (9950/3)
238.6	Solitary plasmacytoma (9731/3)
238.6	Extramedullary plasmacytoma (9734/3)
238.71	Essential thrombocythemia (was 238.7; 9962/3)
	Essential (hemorrhagic) thrombocythemia
	Essential thrombocytosis
	Idiopathic (hemorrhagic) thrombocythemia
	Primary thrombocytosis

- 238.72 Low grade myelodysplastic syndrome lesions  
 Refractory anemia (was 284.9; 9980/3)  
 Refractory anemia with ringed sideroblasts (RARS) (was 285.0; 9982/3)  
 Refractory cytopenia with multilineage dysplasia (RCMD) (was 238.7; 9985/3)  
 Refractory cytopenia with multilineage dysplasia and ringed sideroblasts (RCMD-RS) was 238.7; 9985/3
- 238.73 High grade myelodysplastic syndrome lesions  
 Refractory anemia with excess blasts-1 (RAEB-1) (was 285.0; 9983/3)  
 Refractory anemia with excess blasts-2 (RAEB-2) (was 285.0; 9983/3)
- 238.74 Myelodysplastic syndrome with 5q deletion (was 238.7; 9986/3)  
 5q minus syndrome NOS  
 Excludes: constitutional 5q deletion (758.39) (not reportable)  
 high grade myelodysplastic syndrome with 5q deletion (238.73)
- 238.75 Myelodysplastic syndrome, unspecified (was 238.7; 9985/3, 9989/3)
- 238.76 Myelosclerosis with myeloid metaplasia (9961/3)  
 Agnogenic myeloid metaplasia  
 Idiopathic myelofibrosis (chronic)  
 Myelosclerosis with myeloid metaplasia  
 Primary myelofibrosis  
 Excludes: myelofibrosis NOS (289.83)  
 myelophthisic anemia (284.2) (not reportable)  
 myelophthisis (284.2) (not reportable)  
 secondary myelofibrosis (289.83)
- 238.79 Other lymphatic and hematopoietic tissues  
 Lymphoproliferative disease (chronic) NOS (was 238.7; 9970/1)  
 Megakaryocytic myelosclerosis (was 238.7; 9961/3)  
 Myeloproliferative disease (chronic) NOS (was 238.7; 9960/3)  
 Panmyelosis (acute) (was 238.7; 9931/3)
- 239.0– Neoplasms of unspecified nature  
 239.9

- 273.2           Gamma heavy chain disease  
Franklin's disease
- 273.3           Waldenstrom's macroglobulinemia
- 273.9           Unspecified disorder of plasma protein metabolism (screen  
for potential 273.3 miscodes)
  
- 288.3           Hypereosinophilic syndrome (9964/3)
- 289.83          Myelofibrosis (9932/3)  
                  Myelofibrosis, NOS  
                  Secondary myelofibrosis  
                  Code first underlying disorder, such as:  
                          malignant neoplasm of breast (174.0-174.9,  
                          175.0-175.9)  
                  Excludes:    Idiopathic myelofibrosis (238.76)  
                                  leukoerythroblastic anemia (238.2) (not  
                                  reportable)  
                                  myelofibrosis with myeloid metaplasia  
                                  (238.76)  
                                  myelophthisic anemia (284.2) (not  
                                  reportable)  
                                  myelophthisis (284.2) (not reportable)  
                                  primary myelofibrosis (238.76)
- 289.89          Other specified diseases of blood and blood-forming organs
- V07.3           Other prophylactic chemotherapy
- V07.8           Other specified prophylactic measures
- V10.0-  
V10.9           Personal history of malignant neoplasms
- V58.0           Radiotherapy session
- V58.1           Maintenance chemotherapy
- V66.1           Convalescence following radiotherapy
- V66.2           Convalescence following chemotherapy
- V67.1           Follow-up exam following radiotherapy
- V67.2           Follow-up exam following chemotherapy
- V71.1           Observation for suspected malignant neoplasm
- V76.0-  
V76.9           Special screening for malignant neoplasms
- V86             Estrogen receptor status

**Please Note:**



- Code 042 is not a combination code of AIDS with specified malignancies.
- Prostatic Intraepithelial Neoplasia (PIN III), morphology code 8148/2 is not reportable to the CCR.
- Pilocytic/juvenile astrocytoma, morphology code 9421, is reportable as a /3 behavior code and is assigned a regular tumor sequence number per SEER requirements, effective with cases diagnosed 1/1/2001 and forward.
- Ovarian borderline cystadenomas, morphology codes 8442/1, 8451/1, 8462/1, 8472/1 and 8473/1, which changed behavior codes from /3 to /1 will continue to be reportable to the CCR. These tumors are to be sequenced following the American College of Surgeons guideline for benign tumors.

**Prior to January 1, 2007**

For Casefinding prior to January 1, 2007, use the following screening list.

**ICD-9-CM\***

**CODE**

042	AIDS (review cases for AIDS-related malignancies)
140.0-208.9	Malignant neoplasms (primary and secondary)
203.1	Plasma cell leukemia (9733/3)
205.1	Chronic neutrophilic leukemia (9963/3)
225.0-227.4	Benign central nervous system neoplasms
230.0–234.9	Carcinoma in situ (exclude skin codes 232.0-232.9, and cervix code 233.1)
235.0–238.9	Neoplasms of uncertain behavior
236.2	Ovarian neoplasms of uncertain behavior (8442/1, 8451/1, 8462/1, 8472/1, 8473/1)
237.0–237.9	Central nervous system neoplasms of uncertain behavior
238.4	Polycythemia vera (9950/3)
238.6	Solitary plasmacytoma (9731/3)
238.6	Extramedullary plasmacytoma (9734/3)
238.7	Chronic myeloproliferative disease (9960/3)
238.7	Myelosclerosis with myeloid metaplasia (9961/3)
238.7	Essential thrombocythemia (9962/3)
238.7	Refractory cytopenia with multilineage dysplasia (9985/3)
238.7	Myelodysplastic syndrome with 5q-syndrome (9986/3)
238.7	Therapy-related myelodysplastic syndrome (9987/3)
239.0–239.9	Neoplasms of unspecified nature

273.2	Gamma heavy chain disease Franklin's disease
273.3	Waldenstrom's macroglobulinemia
273.9	Unspecified disorder of plasma protein metabolism (screen for potential 273.3 miscodes)
284.9	Refractory anemia (9980/3)
285.0	Refractory anemia with ringed sideroblasts (9982/3)
285.0	Refractory anemia with excess blasts (9983/3)
285.0	Refractory anemia with excess blasts in transformation (9984/3)
288.3	Hypereosinophilic syndrome (9964/3)
289.8	Acute myelofibrosis (9932/3)
V07.3	Other prophylactic chemotherapy
V07.8	Other specified prophylactic measures
V10.0-V10.9	Personal history of malignant neoplasms
V58.0	Radiotherapy session
V58.1	Maintenance chemotherapy
V66.1	Convalescence following radiotherapy
V66.2	Convalescence following chemotherapy
V67.1	Follow-up exam following radiotherapy
V67.2	Follow-up exam following chemotherapy
V71.1	Observation for suspected malignant neoplasm
V76.0-V76.9	Special screening for malignant neoplasms

\* *International Classification of Diseases, 9th Revision, Clinical Modification, 4th ed.*

**APPENDIX L.1**

**CODES FOR CALIFORNIA COUNTIES**

(in alphabetical order)

(see numerical order)

<b>Name</b>	<b><i>US FIPS Code</i></b>	<b>California County Code</b>	<b>Name</b>	<b><i>US FIPS Code</i></b>	<b>California County Code</b>
ALAMEDA	<b><i>001</i></b>	001	ORANGE	<b><i>059</i></b>	030
ALPINE	<b><i>003</i></b>	002	PLACER	<b><i>061</i></b>	031
AMADOR	<b><i>005</i></b>	003	PLUMAS	<b><i>063</i></b>	032
BUTTE	<b><i>007</i></b>	004	RIVERSIDE	<b><i>065</i></b>	033
CALAVERAS	<b><i>009</i></b>	005	SACRAMENTO	<b><i>067</i></b>	034
CALIFORNIA NOS	<b><i>998</i></b>	000	SAN BENITO	<b><i>069</i></b>	035
COLUSA	<b><i>011</i></b>	006	SAN BERNARDINO	<b><i>071</i></b>	036
CONTRA COSTA	<b><i>013</i></b>	007	SAN DIEGO	<b><i>073</i></b>	037
DEL NORTE	<b><i>015</i></b>	008	SAN FRANCISCO	<b><i>075</i></b>	038
EL DORADO	<b><i>017</i></b>	009	SAN JOAQUIN	<b><i>077</i></b>	039
FRESNO	<b><i>019</i></b>	010	SAN LUIS OBISPO	<b><i>079</i></b>	040
GLENN	<b><i>021</i></b>	011	SAN MATEO	<b><i>081</i></b>	041
HUMBOLDT	<b><i>023</i></b>	012	SANTA BARBARA	<b><i>083</i></b>	042
IMPERIAL	<b><i>025</i></b>	013	SANTA CLARA	<b><i>085</i></b>	043
INYO	<b><i>027</i></b>	014	SANTA CRUZ	<b><i>087</i></b>	044
KERN	<b><i>029</i></b>	015	SHASTA	<b><i>089</i></b>	045
KINGS	<b><i>031</i></b>	016	SIERRA	<b><i>091</i></b>	046
LAKE	<b><i>033</i></b>	017	SISKIYOU	<b><i>093</i></b>	047
LASSEN	<b><i>035</i></b>	018	SOLANO	<b><i>095</i></b>	048
LOS ANGELES	<b><i>037</i></b>	019	SONOMA	<b><i>097</i></b>	049
MADERA	<b><i>039</i></b>	020	STANISLAUS	<b><i>099</i></b>	050

MARIN	<b>041</b>	021	SUTTER	<b>101</b>	051
MARIPOSA	<b>043</b>	022	TEHAMA	<b>103</b>	052
MENDOCINO	<b>045</b>	023	TRINITY	<b>105</b>	053
MERCED	<b>047</b>	024	TULARE	<b>107</b>	054
MODOC	<b>049</b>	025	TUOLUMNE	<b>109</b>	055
MONO	<b>051</b>	026	US NOT CALIF	<b>998</b>	000
MONTEREY	<b>053</b>	027	VENTURA	<b>111</b>	056
NAPA	<b>055</b>	028	YOLO	<b>113</b>	057
NEVADA	<b>057</b>	029	YUBA	<b>115</b>	058

**APPENDIX L.2**

**CODES FOR CALIFORNIA COUNTIES**

(in numerical order)

(see alphabetical order)

<b><i>US FIPS Code</i></b>	<b>California County Code</b>	<b>Name</b>	<b><i>US FIPS Code</i></b>	<b>California County Code</b>	<b>Name</b>
<b><i>998</i></b>	000	CALIFORNIA NOS	<b><i>057</i></b>	029	NEVADA
<b><i>998</i></b>	000	US NOT CALIF	<b><i>059</i></b>	030	ORANGE
<b><i>001</i></b>	001	ALAMEDA	<b><i>061</i></b>	031	PLACER
<b><i>003</i></b>	002	ALPINE	<b><i>063</i></b>	032	PLUMAS
<b><i>005</i></b>	003	AMADOR	<b><i>065</i></b>	033	RIVERSIDE
<b><i>007</i></b>	004	BUTTE	<b><i>067</i></b>	034	SACRAMENTO
<b><i>009</i></b>	005	CALAVERAS	<b><i>069</i></b>	035	SAN BENITO
<b><i>011</i></b>	006	COLUSA	<b><i>071</i></b>	036	SAN BERNARDINO
<b><i>013</i></b>	007	CONTRA COSTA	<b><i>073</i></b>	037	SAN DIEGO
<b><i>015</i></b>	008	DEL NORTE	<b><i>075</i></b>	038	SAN FRANCISCO
<b><i>017</i></b>	009	EL DORADO	<b><i>077</i></b>	039	SAN JOAQUIN
<b><i>019</i></b>	010	FRESNO	<b><i>079</i></b>	040	SAN LUIS OBISPO
<b><i>021</i></b>	011	GLENN	<b><i>081</i></b>	041	SAN MATEO
<b><i>023</i></b>	012	HUMBOLDT	<b><i>083</i></b>	042	SANTA BARBARA
<b><i>025</i></b>	013	IMPERIAL	<b><i>085</i></b>	043	SANTA CLARA
<b><i>027</i></b>	014	INYO	<b><i>087</i></b>	044	SANTA CRUZ
<b><i>029</i></b>	015	KERN	<b><i>089</i></b>	045	SHASTA
<b><i>031</i></b>	016	KINGS	<b><i>091</i></b>	046	SIERRA
<b><i>033</i></b>	017	LAKE	<b><i>093</i></b>	047	SISKIYOU
<b><i>035</i></b>	018	LASSEN	<b><i>095</i></b>	048	SOLANO
<b><i>037</i></b>	019	LOS ANGELES	<b><i>097</i></b>	049	SONOMA
<b><i>039</i></b>	020	MADERA	<b><i>099</i></b>	050	STANISLAUS

<b>041</b>	021	MARIN	<b>101</b>	051	SUTTER
<b>043</b>	022	MARIPOSA	<b>103</b>	052	TEHAMA
<b>045</b>	023	MENDOCINO	<b>105</b>	053	TRINITY
<b>047</b>	024	MERCED	<b>107</b>	054	TULARE
<b>049</b>	025	MODOC	<b>109</b>	055	TUOLUMNE
<b>051</b>	026	MONO	<b>111</b>	056	VENTURA
<b>053</b>	027	MONTEREY	<b>113</b>	057	YOLO
<b>055</b>	028	NAPA	<b>115</b>	058	YUBA

**APPENDIX M.1****COMMON ACCEPTABLE ABBREVIATIONS**

(in order of terms)

Do not use non-standard abbreviations in abstracts. When abbreviating words in an address, refer to the Address Abbreviations section of the *National Zip Code and Post Office Directory*, published by the U.S. Postal Service. For short names of antineoplastic drugs, consult the SEER Rx. Other accepted abbreviations are:

Abdomen	ABD
Abdominal Perineal	AP
Above Knee (Amputation)	AK(A)
Acid Phosphatase	ACID PHOS
Acquired Immunodeficiency Syndrome	AIDS
Acute Granulocytic Leukemia	AGL
Acute Lymphocytic Leukemia	ALL
Acute Myelogenous Leukemia	AML
Adenocarcinoma	ADENOCA
Adjacent	ADJ
Admission; Admit	ADM
Against Medical Advice	AMA
Aids Related Complex	ARC
Alcohol	ETOH
Alkaline Phosphatase	ALK PHOS
Alpha-fetoprotein	AFP
Also Known As	AKA
Ambulatory	AMB
Anal Intraepithelial Neoplasia	AIN
Anaplastic	ANAP
Angiography	ANGIO
Anterior	ANT
Anteroposterior	AP
Appendix	APP

Approximately	APPROX
Arteriovenous	AV
Aspiration	ASP
Auscultation & Percussion	A&P
Autopsy	AUT
Axilla(ry)	AX
Bacillus Calmette-Guerin	BCG
Barium	BA
Barium Enema	BE
Bartholin's, Urethral, & Skene's Glands	BUS
Below Knee (Amputation)	BK(A)
Benign Prostatic Hypertrophy/Hyperplasia	BPH
Bilateral	BIL
Bilateral Salpingo-oophorectomy	BSO
Bile Duct	BD
Biological Response Modifier	BRM
Biopsy	BX
Blood Urea Nitrogen	BUN
Bone Marrow	BM
Bone Scan	BSC
Bowel Movement	BM
Bowel Sounds	BS
Breath Sounds	BS, BRS
Bright Red Blood (per Rectum)	BRB(PR)
Calcium	CA
Carcinoembryonic Antigen	CEA
Carcinoma	CA
Carcinoma In Situ	CIS
CAT Scan	CT, CT SC
Centimeter	CM
Central Nervous System	CNS
Cerebrospinal Fluid	CSF
Cervical Intraepithelial Neoplasia	CIN



Cervical Vertebra	C1-C7
Cervix	CX
Cesium	CS
Chemotherapy	CHEMO
Chest Xray	CXR
Chief Complaint	CC
Chronic Granulocytic Leukemia	CGL
Chronic Lymphocytic Leukemia	CLL
Chronic Myeloid Leukemia	CML
Cigarettes	CIG
Clear	CLR
Colon	
Ascending	A-COLON
Descending	D-COLON
Sigmoid	S-COLON
Transverse	T-COLON
Common Bile Duct	CBD
Complaining of	C/O
Complete Blood Count	CBC
Computerized Axial Tomography Scan	CT, CAT SCAN
Consistent with	C/W
Continue	CONT
Costal Margin	CM
Cubic Centimeter	CC
Cystoscopy	CYSTO
Cytology	CYTO
Cytomegalovirus	CMV
Date of Birth	DOB
Dead on Arrival	DOA
Decreased	DECR
Dermatology	DERM
Diagnosis	DX
Diameter	DIAM

Differentiated	DIFF
Dilatation and Curettage	D&C
Discharge	DIS, DISCH, DS
Discontinued	DC
Disease	DZ, DIS
Doctor	PMD
Doctor	DR, MD
Ductal Carcinoma In Situ	DCIS
Ductal Intraepithelial Neoplasia	DIN
Ears, Nose, and Throat	ENT
Electroencephalogram	EEG
Electromyogram	EMG
Emergency Room	ER
Endoscopic Retrograde Cholangiopancreatography	ERCP
Enlarged	ENL
Esophagogastroduodenoscopy	EGD
Estrogen Receptor (Assay)	ER(A)
Evaluation	EVAL
Examination	EXAM
Examination under Anesthesia	EUA
Excision	EXC
Exploratory Laparotomy	EXP LAP
Extend	EXT
Extended Care Facility	ECF
Extension	EXT
External	EXT
Extremity	EXT
Eyes, Ears, Nose, and Throat	EENT
Family (Medical) History	F(M)H
Fever Unknown Origin	FUO
Fingerbreadth	FB
Floor of Mouth	FOM

Follow-up	FU
Fracture	FX
Frozen Section	FS
Gallbladder	GB
Gastroenterostomy	GE
Gastroesophageal	GE
Gastrointestinal	GI
Genitourinary	GU
Grade	GR
Gram	GM
Gynecology	GYN
Head, Eyes, Ears, Nose, Throat	HEENT
Hematocrit	HCT
Hemoglobin	HGB
Hepatosplenomegaly	HSM
History	HX
History and Physical	H&P
History of	HO
History of Present Illness	HPI
Hormone	HORM
Hospital	HOSP
Hour, Hours	HR, HRS
Human Chorionic Gonadotropin	HCG
Human Immunodeficiency Virus	HIV
Human Papilloma Virus	HPV
Human T-Lymphotropic Virus Type III	HTLV-III
Hysterectomy	HYST
Immunoglobulin	IG
Impression	IMP
Includes, Including	INCL
Increase	INCR (or >)
Inferior Vena Cava	IVC
Infiltrating	INFILT

Inpatient	IP
Intercostal Margin	ICM
Internal Mammary Artery	IMA
Intrathecal	IT
Intravenous	IV
Intravenous Pyelogram	IVP
Iodine	I
Jugular Venous Distention	JVD
Kidneys, Ureters, Bladder	KUB
Kilogram	KG
Kilovolt	KV
Laparotomy	LAP
Large	LG
Laryngeal Intraepithelial Neoplasia	LIN
Last Menstrual Period	LMP
Lateral	LAT
Left	L, LT
Left Costal Margin	LCM
Left Lower Extremity	LLE
Left Lower Lobe	LLL
Left Lower Quadrant	LLQ
Left Salpingo-oophorectomy	LSO
Left Upper Extremity	LUE
Left Upper Lobe	LUL
Left Upper Quadrant	LUQ
Liter	L
Liver, Kidney, Spleen (Bladder)	LKS(B)
Lobular Carcinoma In Situ	LCIS
Local M.D.	LMD
Lower Extremity	LE
Lower Inner Quadrant	LIQ
Lower Outer Quadrant	LOQ
Lumbar Puncture	LP

Lumbar Vertebra	L1-L5
Lumbosacral	LS
Lymph Node(s)	LN, LN'S, LNS
Lymphadenopathy	LAD/LAN
Lymphadenopathy-Associated Virus	LAV
Magnetic Resonance Imaging	MRI
Malignant	MALIG, MAL
Mandible	MAND
Mastectomy	MAST
Maxilla(ry)	MAX
Maximum	MAX
Medicine	MED
Metastatic, Metastases	MET, METS
Microscopic	MICRO
Midclavicular Line	MCL
Middle Lobe	ML
Millicurie (hours)	MC(H)
Milligram (hours)	MG(H)
Milliliter	ML
Millimeter	MM
Million Electron Volts	MEV
Minimum	MIN
Moderate	MOD
Moderately Differentiated	MD, MOD DIFF
Modified Radical Mastectomy	MRM
Nausea and Vomiting	N&V
Neck Vein Distention	NVD
Negative	NEG (or -)
Neurology	NEURO
No Evidence of Disease	NED
No Significant Findings	NSF
Normal	NL
Not Applicable	NA

Not Otherwise Specified	NOS
Not Recorded	NR
Obstructed (-ing, -ion)	OBST
Operating Room	OR
Operation	OP
Operative Report	OP REPORT
Ounce	OZ
Outpatient	OP
Packs per Day	PPD
Palpated (-able)	PALP
Papanicolaou Smear	PAP
Papillary	PAP
Past Medical History	PMH
Pathology	PATH
Patient	PT
Pelvic Inflammatory Disease	PID
Percussion and Auscultation	P&A
Percutaneous	PERC
Personal (Primary) Medical Medical Doctor	DR, MD
Physical Examination	PE
Platelets	PLT
Poorly Differentiated	PD, POOR DIFF
Positive	POS (or +)
Positron Emission Tomography	PET
Possible	POSS
Posterior	POST
Posteroanterior	PA
Postmortem Examination	POST
Postoperative (-ly)	PO, POSTOP
Postoperative Day	POD
Preoperative (-ly)	PREOP
Present Illness	PI
Prior to Admission	PTA

Probable (-ly)	PROB
Progesterone Receptor (Assay)	PR(A)
Prostatic Intraepithelial Neoplasia	PIN
Pulmonary	PULM
Pulmonary Artery	PA
Radiation	RAD
Radiation Absorbed Dose	RAD
Radiation Therapy	RT/XRT
Radical	RAD
Radioimmunoassay	RIA
Radium	RA
Red Blood Cells	RBC
Resection	RESEC
Respiratory	RESPIR
Review of Outside Films	ROF
Review of Outside Slides	ROS
Review of Systems	ROS
Right	R, RT
Right Costal Margin	RCM
Right Lower Extremity	RLE
Right Lower Lobe	RLL
Right Lower Quadrant	RLQ
Right Middle Lobe	RML
Right Salpingo-oophorectomy	RSO
Right Upper Extremity	RUE
Right Upper Lobe	RUL
Right Upper Quadrant	RUQ
Rule Out	RO, R/O
Sacral Vertebra	S1-S5
Salpingo-oophorectomy	SO
Sentinel Lymph Node	SLN
Sequential Multiple Analysis (Biochem Profile)	SMA
Serum Glutamic Oxaloacetic Transaminase	SGOT

Serum Glutamic Pyruvic	SGPT
Shortness of Breath	SOB
Skilled Nursing Facility	SNF
Small	SM, SML
Small Bowel	SB, SML BWL
Specimen	SPEC
Spine	
Cervical	C-SPINE
Lumbar	L-SPINE
Sacral	S-SPINE
Thoracic	T-SPINE
Split Thickness Skin Graft	STSG
Squamous	SQ, SQUAM
Squamous Cell Carcinoma	SCC
Squamous Intraepithelial Lesion	SIL
Status Post	S/P
Subcutaneous	SUB-Q, SUBQ, SQ
Superior Vena Cava	SVC
Surgery, Surgical	SURG
Symptoms	SX
Thoracic	T
Thoracic Vertebra	T1-T12
Total Abdominal Hysterectomy-Bilateral Salpingo-oophorectomy	TAH-BSO
Total Parenteral Nutrition	TPN
Total Vaginal Hysterectomy	TVH
Transitional Cell Carcinoma	TCC
Transurethral Resection Bladder (Tumor)	TURB(T)
Transurethral Resection	TUR
Transurethral Resection Prostate	TURP
Treatment	RX, TX
Tumor Size	TS
Undifferentiated	UNDIFF



Upper Extremity	UE
Upper Gastrointestinal	UGI
Upper Inner Quadrant	UIQ
Upper Outer Quadrant	UOQ
Vagina, Vaginal	VAG
Vaginal Hysterectomy	VAG HYST
Vaginal Intraepithelial Neoplasia	VAIN
Vascular	VASC
Vulvar Intraepithelial Neoplasia	VIN
Well Differentiated	WD, WELL DIFF
White Blood Cells	WBC
With	W/ or C
Within Normal Limits	WNL
Without	W/O
Work-up	W/U
Xray	XR
Year	YR

**Symbols**

At	@
Comparison	/
Decrease, less than	<
Equals	=
Increase, more than	>
Negative	-
Number*	#
Positive	+
Pounds**	#
Times	x

\* If it appears before a numeral.

\*\* If it appears after a numeral.

## APPENDIX M.2

### COMMON ACCEPTABLE ABBREVIATIONS

(in order of abbreviations)

Do not use non-standard abbreviations in abstracts. When abbreviating words in an address, refer to the Address Abbreviations section of the *National Zip Code and Post Office Directory*, published by the U.S. Postal Service. For short names of antineoplastic drugs, consult the SEER Rx. Other accepted abbreviations are:

A&P	Auscultation & Percussion
A-COLON	Ascending Colon
ABD	Abdomen
ACID PHOS	Acid Phosphatase
ADENOCA	Adenocarcinoma
ADJ	Adjacent
ADM	Admission; Admit
AFP	Alpha-fetoprotein
AGL	Acute Granulocytic Leukemia
AIDS	Acquired Immunodeficiency Syndrome
AIN	Anal Intraepithelial Neoplasia
AK(A)	Above Knee (Amputation)
AKA	Also Known As
ALK PHOS	Alkaline Phosphatase
ALL	Acute Lymphocytic Leukemia
AMA	Against Medical Advice
AMB	Ambulatory
AML	Acute Myelogenous Leukemia
ANAP	Anaplastic
ANGIO	Angiography
ANT	Anterior
APPROX	Approximately
APP	Appendix
AP	Abdominal Perineal
AP	Anteroposterior
ARC	Aids Related Complex
ASP	Aspiration
AUT	Autopsy

AV	Arteriovenous
AX	Axilla(ry)
BA	Barium
BCG	Bacillus Calmette-Guerin
BD	Bile Duct
BE	Barium Enema
BIL	Bilateral
BK(A)	Below Knee (Amputation)
BM	Bowel Movement
BM	Bone Marrow
BPH	Benign Prostatic Hypertrophy/Hyperplasia
BRB(PR)	Bright Red Blood (per Rectum)
BRM	Biological Response Modifier
BS, BRS	Breath Sounds
BSC	Bone Scan
BSO	Bilateral Salpingo-oophorectomy
BS	Bowel Sounds
BUN	Blood Urea Nitrogen
BUS	Bartholin's, Urethral, & Skene's Glands
BX	Biopsy
C-SPINE	Cervical Spine
C/O	Complaining of
C/W	Consistent with
C1-C7	Cervical Vertebra
CA	Carcinoma
CA	Calcium
CBC	Complete Blood Count
CBD	Common Bile Duct
CC	Cubic Centimeter
CC	Chief Complaint
CEA	Carcinoembryonic Antigen
CGL	Chronic Granulocytic Leukemia
CHEMO	Chemotherapy
CIG	Cigarettes
CIN	Cervical Intraepithelial Neoplasia
CIS	Carcinoma In Situ
CLL	Chronic Lymphocytic Leukemia
CLR	Clear
CML	Chronic Myeloid Leukemia

CMV	Cytomegalovirus
CM	Costal Margin
CM	Centimeter
CNS	Central Nervous System
CONT	Continue
CSF	Cerebrospinal Fluid
CS	Cesium
CT, CT SC	Computerized Axial Tomography Scan, CAT Scan
CXR	Chest Xray
CX	Cervix
CYSTO	Cystoscopy
CYTO	Cytology
C	With
D&C	Dilatation and Curettage
D-COLON	Descending Colon
DCIS	Ductal Carcinoma In Situ
DC	Discontinued
DECR (or <)	Decreased
DERM	Dermatology
DIAM	Diameter
DIFF	Differentiated
DIN	Ductal Intraepithelial Neoplasia
DIS, DISCH	Discharge
DIS	Disease
DOA	Dead on Arrival
DOB	Date of Birth
DR	(Medical) Doctor
DS	Discharge
DX	Diagnosis
DZ	Disease
ECF	Extended Care Facility
EEG	Electroencephalogram
EENT	Eyes, Ears, Nose, and Throat
EGD	Esophagogastroduodenoscopy
EMG	Electromyogram
ENL	Enlarged
ENT	Ears, Nose, and Throat
ER(A)	Estrogen Receptor (Assay)
ERCP	Endoscopic Retrograde Cholangiopancreatography

ER	Emergency Room
ETOH	Alcohol
EUA	Examination under Anesthesia
EVAL	Evaluation
EXAM	Examination
EXC	Excision
EXP LAP	Exploratory Laparotomy
EXT	Extension
EXT	Extremity
EXT	External
EXT	Extend
F(M)H	Family (Medical) History
FB	Fingerbreadth
FOM	Floor of Mouth
FS	Frozen Section
FUO	Fever Unknown Origin
FU	Follow-up
FX	Fracture
GB	Gallbladder
GE	Gastroenterostomy
GE	Gastroesophageal
GI	Gastrointestinal
GM	Gram
GR	Grade
GU	Genitourinary
GYN	Gynecology
H&P	History and Physical
HCG	Human Chorionic Gonadotropin
HCT	Hematocrit
HEENT	Head, Eyes, Ears, Nose, Throat
HGB	Hemoglobin
HIV	Human Immunodeficiency Virus
HORM	Hormone
HOSP	Hospital
HO	History of
HPI	History of Present Illness
HPV	Human Papilloma Virus
HR, HRS	Hour, Hours
HSM	Hepatosplenomegaly

HTLV-III	Human T-Lymphotropic Virus Type III
HX	History
HYST	Hysterectomy
ICM	Intercostal Margin
IG	Immunoglobulin
IMA	Internal Mammary Artery
IMP	Impression
INCL	Includes, Including
INCR (or >)	Increase
INFILT	Infiltrating
IP	Inpatient
IT	Intrathecal
IVC	Inferior Vena Cava
IVP	Intravenous Pyelogram
IV	Intravenous
I	Iodine
JVD	Jugular Venous Distention
KG	Kilogram
KUB	Kidneys, Ureters, Bladder
KV	Kilovolt
L-SPINE	Lumbar Spine
L1-L5	Lumbar Vertebra
LAD/LAN	Lymphadenopathy
LAP	Laparotomy
LAT	Lateral
LAV	Lymphadenopathy-Associated Virus
LCIS	Laryngeal Intraepithelial Neoplasia
LCM	Left Costal Margin
LE	Lower Extremity
LG	Large
LIQ	Lower Inner Quadrant
LKS(B)	Liver, Kidney, Spleen (Bladder)
LLE	Left Lower Extremity
LLL	Left Lower Lobe
LLQ	Left Lower Quadrant
LMD	Local M.D.
LMP	Last Menstrual Period
LN, LN'S, LNS	Lymph Node(s)
LOQ	Lower Outer Quadrant

LP	Lumbar Puncture
LSO	Left Salpingo-oophorectomy
LS	Lumbosacral
LT	Left
LUE	Left Upper Extremity
LUL	Left Upper Lobe
LUQ	Left Upper Quadrant
L	Liter
L	Left
MAL, MALIG	Malignant
MAND	Mandible
MAST	Mastectomy
MAX	Maxilla(ry)
MAX	Maximum
MC(H)	Millicurie(hours)
MCL	Midclavicular Line
MD	Moderately Differentiated
MD	Medical Doctor
MED	Medicine
MET, METS	Metastatic, Metastases
MEV	Million Electron Volts
MG(H)	Milligram (hours)
MICRO	Microscopic
MIN	Minimum
ML	Middle Lobe
ML	Milliliter
MM	Millimeter
MOD DIFF	Moderately Differentiated
MOD	Moderate
MRI	Magnetic Resonance Imaging
MRM	Modified Radical Mastectomy
N&V	Nausea and Vomiting
NA	Not Applicable
NED	No Evidence of Disease
NEG (or -)	Negative
NEURO	Neurology
NL	Normal
NOS	Not Otherwise Specified
NR	Not Recorded

NSF	No Significant Findings
NVD	Neck Vein Distention
OBST	Obstructed (-ing, -ion)
OP REPORT	Operative Report
OP	Outpatient
OP	Operation
OR	Operating Room
OZ	Ounce
P&A	Percussion and Auscultation
PALP	Palpated (-able)
PAP	Papanicolaou Smear
PAP	Papillary
PATH	Pathology
PA	Pulmonary Artery
PA	Posteroanterior
PD	Poorly Differentiated
PERC	Percutaneous
PET	Positron Emission Tomography
PE	Physical Examination
PID	Pelvic Inflammatory Disease
PIN	Prostatic Intraepithelial Neoplasia
PI	Present Illness
PLT	Platelets
PMD	Personal (Primary) Medical Doctor
PMH	Past Medical History
POD	Postoperative Day
POOR DIFF	Poorly Differentiated
POS (or +)	Positive
POSS	Possible
POSTOP	Postoperative (-ly)
POST	Postmortem Examination
POST	Posterior
PO	Postoperative (-ly)
PPD	Packs per Day
PR(A)	Progesterone Receptor (Assay)
PREOP	Preoperative (-ly)
PROB	Probable (-ly)
PTA	Prior to Admission
PT	Patient



PULM	Pulmonary
RAD	Radiation Absorbed Dose
RAD	Radiation
RAD	Radical
RA	Radium
RBC	Red Blood Cells
RCM	Right Costal Margin
RESEC	Resection
RESPIR	Respiratory
RIA	Radioimmunoassay
RLE	Right Lower Extremity
RLL	Right Lower Lobe
RLQ	Right Lower Quadrant
RML	Right Middle Lobe
RO, R/O	Rule Out
ROF	Review of Outside Films
ROS	Review of Outside Slides
ROS	Review of Systems
RSO	Right Salpingo-oophorectomy
RT	Radiation Therapy
RT	Right
RUE	Right Upper Extremity
RUL	Right Upper Lobe
RUQ	Right Upper Quadrant
RX	Treatment
R	Right
S-COLON	Sigmoid Colon
S-SPINE	Sacral Spine
S/P	Status Post
S1-S5	Sacral Vertebra
SB	Small Bowel
SCC	Squamous Cell Carcinoma
SGOT	Serum Glutamic Oxaloacetic Transaminase
SGPT	Serum Glutamic Pyruvic Transaminase
SIL	Squamous Intraepithelial Lesion
SLN	Sentinel Lymph Node
SMA	Sequential Multiple Analysis (Biochem Profile)
SML BWL	Small Bowel
SML	Small

SM	Small
SNF	Skilled Nursing Facility
SOB	Shortness of Breath
SO	Salpingo-oophorectomy
SPEC	Specimen
SQ, SQUAM	Squamous
SQ	Subcutaneous
STSG	Split Thickness Skin Graft
SUB-Q, SUBQ	Subcutaneous
SURG	Surgery, Surgical
SVC	Superior Vena Cava
SX	Symptoms
T-COLON	Transverse Colon
T-SPINE	Thoracic Spine
T1-T12	Thoracic Vertebra
TAH-BSO	Total Abdominal HysterectomyBilateral Salpingo-oophorectomy
TCC	Transitional Cell Carcinoma
TPN	Total Parenteral Nutrition
TS	Tumor Size
TURB(T)	Transurethral Resection Bladder (Tumor)
TURP	Transurethral Resection Prostate
TUR	Transurethral Resection
TVH	Total Vaginal Hysterectomy
TX	Treatment
T	Thoracic
UE	Upper Extremity
UGI	Upper Gastrointestinal
UIQ	Upper Inner Quadrant
UNDIFF	Undifferentiated
UOQ	Upper Outer Quadrant
VAG HYST	Vaginal Hysterectomy
VAG	Vagina, Vaginal
VAIN	Vaginal Intraepithelial Neoplasia
VASC	Vascular
VIN	Vulvar Intraepithelial Neoplasia
W/	With
W/O	Without
W/U	Work-up
WBC	White Blood Cells

WD, WELL DIFF Well Differentiated  
 WNL Within Normal Limits  
 XRT Radiation Therapy  
 XR Xray

YR Year

**Symbols**

@	At
/	Comparison
<	Decrease, less than
=	Equals
>	Increase, more than
-	Negative
#	Number*
#	Pounds**
+	Positive
x	Times

\* If it appears before a numeral

\*\* If it appears after a numeral

**APPENDIX N**

**ICD-O-3 CODES TO BE CONSIDERED ONE PRIMARY SITE WHEN DETERMINING MULTIPLE PRIMARIES**

<b>ICD-O-3 Codes</b>	<b>Site Groupings</b>
C01 C02	Base of tongue Other and unspecified parts of tongue
C05 C06	Palate Other and unspecified parts of mouth
C07 C08	Parotid gland Other and unspecified major salivary glands
C09 C10	Tonsil Oropharynx
C12 C13	Pyriform sinus Hypopharynx
C19 C20	Rectosigmoid junction Rectum
C23 C24	Gallbladder Other and unspecified parts of biliary tract
C30 C31	Nasal cavity and middle ear Accessory sinuses
C33 C34	Trachea Bronchus and lung

C37	Thymus
C38.0- .3 C38.8	Heart and mediastinum Overlapping lesion of heart, mediastinum, and pleura
C40 C41	Bones, joints and articular cartilage of limbs Bones, joints and articular cartilage of other and unspec. sites
C51 C52 C57.7 C57.8- .9	Vulva Vagina Other specified female genital organs Overlapping lesion and female genital tract, NOS
C60 C63	Penis Other and unspecified male genital organs
C64 C65 C66 C68	Kidney Renal pelvis Ureter Other and unspecified urinary organs
C74 C75	Adrenal gland Other endocrine glands and related structures

Appendix O: Spanish Surnames

**APPENDIX O**

**1980 CENSUS LIST OF SPANISH SURNAMES**

**Instructions for Using 1980 Census List of Spanish Surnames**

This list can be used to code last names in most areas of the United States.

- All names are listed alphabetically in upper-case letters without any blanks or spaces. For example, names such as "De Leon," "De la Torre," or "La Luz" are shown as "DELEON," "DELATORRE," or "LALUZ."
- Spanish surnames often have accent marks (´) or a tilde (~) over the n (ñ). Disregard accent marks or tildes as these marks have been omitted from the list. For example, the names "Martínez" with an accent (´) and "Nuñez" with a tilde (~) are listed as "MARTINEZ" and "NUNEZ."
- If a surname consists of two names, separated by a dash or a space, code the person as Spanish if either name appears on the list. For example, for "Collins-Garcia," check "COLLINS" on the list. Since it does not appear, check for "GARCIA." If the name appeared as "Garcia-Collins," then "GARCIA" would be checked first.
- If the surname is of the form "Lopez R.," ignore the initial and look up the name, "LOPEZ."
- If the surname consists of two surnames separated by "de" such as "Perez de Seda," first look up the name written first, i.e., "PEREZ;" if it is not on the list, look up the final name including the word "de," i.e., "DESEDA;" if it is still not on the list, look up the final name without the word "de," i.e., "SEDA."
- Surnames written with spaces which begin "de," "de la," or "del," such as "de la Cruz," should be looked up with and without the prefix words, i.e., "CRUZ," "LACRUZ," and "DELACRUZ." If any of the combinations is listed, the surname should be considered Spanish.

**APPENDIX O**

**1980 CENSUS LIST OF SPANISH SURNAMES**

**ABA-AZU**

See Index to Spanish Names

ABAD	ALCEDO	ANDUJAL	ARMADA
ABADIA	ALCERRECA	ANDUJAR	ARMADILLO
ABADIANO	ALCIBAR	ANDUJO	ARMADO
ABADIAS	ALCIVAR	ANDUYO	ARMAIZ

ABADILLA	ALCOBER	ANDUZE	ARMANDARIZ
ABADIN	ALCOCER	ANEIRO	ARMARIO
ABAIGAR	ALCOCES	ANEIROS	ARMAS
ABAJO	ALCOLA	ANEL	ARMENDA
ABALLE	ALCOLEA	ANERO	ARMENDARES
ABALO	ALCON	ANGELES	ARMENDAREZ
ABALOS	ALCONTAR	ANGLADA	ARMENDARIS
ABAONZA	ALCORTA	ANGLADE	ARMENDARIZ
ABARCA	ALCOSER	ANGLERO	ARMENDEZ
ABARCO	ALCOSET	ANGOCO	ARMENDIA
ABAROA	ALCOVER	ANGON	ARMENGOL
ABARQUEZ	ALCOZAR	ANGUEIRA	ARMENTA
ABARTA	ALCOZER	ANGUERA	ARMENTERO
ABARZUA	ALCUDIA	ANGUIANO	ARMENTEROS
ABASCAL	ALDABA	ANGUINO	ARMERO
ABASTA	ALDABE	ANGUITA	ARMESTO
ABASTAS	ALDACO	ANGULO	ARMIENTA
ABASTO	ALDAHONDO	ANIAS	ARMIGO
ABAUNZA	ALDAMA	ANIBARRO	ARMIJO
ABAURREA	ALDANA	ANILLO	ARMIJOS
ABAY	ALDAPA	ANIZ	ARMINAN
ABAYA	ALDAPE	ANORGA	ARMINANA
ABBADIE	ALDARONDO	ANQUIANO	ARMITO
ABDALA	ALDAS	ANSALDUA	ARMO
ABEA	ALDASORO	ANSALMO	ARMOLA
ABEITA	ALDAVA	ANSISO	ARMORA
ABEJA	ALDAVE	ANSOATEGUI	ARNADO
ABELAIRAS	ALDAYA	ANSOLABEHERE	ARNAEZ
ABELAR	ALDAZ	ANSURES	ARNAIZ
ABELDANO	ALDAZABAL	ANTA	ARNALDO
ABELEDI	ALDEBOT	ANTABLIN	ARNAVAT
ABELLA	ALDECOA	ANTELO	ARNEDO
ABELLAN	ALDECOCEA	ANTEQUERA	ARNERO
ABELLEIRA	ALDEIS	ANTIGUA	ARNIELLA
ABELLERA	ALDEREGUIA	ANTILLON	AROCENA
ABENDANO	ALDERETE	ANTIMO	AROCHA
ABERASTURI	ALDERETTE	ANTOLIN	AROCHE
ABERASTURIA	ALDERTE	ANTOLINEZ	AROCHI
ABERGEL	ALDRETE	ANTOMARCHY	AROCHO
ABESADA	ALDUEN	ANTONETTY	AROIZA
ABETE	ALDUENDA	ANTOPIA	AROS
ABEYTA	ALEANTAR	ANTRILLO	AROSEMENA
ABEYTIA	ALEBIS	ANTU	AROSTEGUI
ABIEGA	ALEDO	ANTUNA	AROYA
ABILA	ALEGADO	ANTUNANO	AROYO
ABILES	ALEGRE	ANTUNEZ	ARoz
ABILEZ	ALEGRET	ANZALDA	ARozENA
ABIN	ALEGRIA	ANZALDO	ARPON

ABINA	ALEJANDRE	ANZALDUA	ARQUELLES
ABIO	ALEJANDRES	ANZAR	ARQUELLO
ABIOL	ALEJANDREZ	ANZARA	ARQUER
ABISLAIMAN	ALEJANDRO	ANZARDO	ARQUERO
ABITIA	ALEJO	ANZELDE	ARQUES
ABITU	ALEJOS	ANZORENA	ARQUETA
ABITUA	ALELUNAS	ANZUA	ARQUIMBAU
ABLANEDO	ALEMAN	ANZUALDA	ARQUIZA
ABOGADO	ALEMANIA	ANZUETO	ARRABAL
ABOITE	ALEMANY	ANZULES	ARRACHE
ABOITES	ALEMAR	ANZURES	ARRAIGA
ABOLILA	ALEN	APABLASA	ARRAIZA
ABONCE	ALENCASTRO	APADACA	ARRAMBIDE
ABORLLEILE	ALEQUIN	APAEZ	ARRANAGA
ABOY	ALERS	APALATEGUI	ARRASTIA
ABOYTES	ALERTE	APALATEQUI	ARRATIA
ABRAHANTE	ALEVEDO	APARICIO	ARRAYA
ABRAHANTES	ALEXANDRINO	APELLANIZ	ARRAZCAETA
ABRAJAN	ALFALLA	APEZTEGUIA	ARRAZOLA
ABRANTE	ALFARA	APODACA	ARREA
ABREA	ALFARD	APODACO	ARREAGA
ABREGO	ALFARO	APODOCA	ARREALA
ABREO	ALFASSA	APOLINAR	ARREAZOLA
ABREU	ALFAU	APONTE	ARREBOLA
ABREUS	ALFEREZ	APORTELA	ARRECHE
ABREUT	ALFONSECA	APRATO	ARRECHEA
ABREV	ALFONSO	APRICIO	ARREDENDO
ABREW	ALFONZO	APUAN	ARREDONDA
ABREYO	ALFRIDO	AQUAYO	ARREDONDO
ABRICA	ALGARA	AQUERO	ARREGUI
ABRIGO	ALGARIN	AQUEVEQUE	ARREGUIN
ABRIL	ALGARRA	AQUIAR	ARREGUY
ABRIOL	ALGAVA	AQUILAR	ARRELLANO
ABUIN	ALGEA	AQUILERA	ARRELLIN
ABUNDES	ALGECIRAS	AQUILES	ARRENDO
ABUNDEZ	ALGORA	AQUILLAR	ARRENDONDO
ABUNDIS	ALGORRI	AQUIN	ARRENQUIN
ABUNDIZ	ALGORTA	AQUINAGA	ARREOLA
ABUNDO	ALGUACIL	AQUINES	ARREQUIBE
ABURTO	ALGUESEVA	AQUIRRE	ARREQUIN
ABUTIN	ALIAGA	ARA	ARRESTOY
ACABA	ALICANTE	ARABALO	ARRETCHE
ACABEO	ALICCA	ARABI	ARREY
ACARON	ALICEA	ARABITG	ARREYGUE
ACASTA	ALICIA	ARACENA	ARREZOLA
ACOSTA	ALIJA	ARACHE	ARRIAGA
ACCUAR	ALINAYA	ARADILLAS	ARRIAGO
ACEBAL	ALIPAZ	ARAGO	ARRIARAN



ACEBEDO	ALIRE	ARAGON	ARRIASOLA
ACEBO	ALIRES	ARAGONES	ARRIAZA
ACED	ALIREZ	ARAGONEZ	ARRIAZOLA
ACEDO	ALLADICE	ARAGUAS	ARRIBA
ACEITUNO	ALLADO	ARAGUNDI	ARRIBAS
ACENCIO	ALLALA	ARAGUS	ARRIERA
ACENEDO	ALLANDE	ARAGUZ	ARRIERO
ACERA	ALLARID	ARAICA	ARRIETA
ACEREDO	ALLEGGRANZA	ARAIN	ARRIETE
ACERETO	ALLEGUE	ARAIZ	ARRIETTA
ACERO	ALLEGUEZ	ARAIZA	ARRIGA
ACETY	ALLENDE	ARAMAYO	ARRILLAGA
ACEUEDO	ALLENGUI	ARAMBEL	ARRIOLA
ACEVDO	ALLESANDRO	ARAMBUL	ARRIQUIDEZ
ACEVEDA	ALLONGO	ARAMBULA	ARRISOLA
ACEVEDO	ALLOZA	ARAMBULO	ARRITOLA
ACEVES	ALMA	ARAMBURO	ARRIVILLAGA
ACEVEZ	ALMADA	ARAMBURU	ARRIZOLA
ACEVIDO	ALMADO	ARAMENDIA	ARRIZON
ACHA	ALMADOVA	ARAN	ARROCENA
ACHEZ	ALMAGER	ARANA	ARROJAS
ACHON	ALMAGNER	ARANALDE	ARROJO
ACIDO	ALMAGRO	ARANAS	ARROLLADO
ACIN	ALMAGUER	ARANAZ	ARROLLO
ACOB	ALMANCE	ARANCIBIA	ARRONA
ACOSTA	ALMANDOZ	ARANDA	ARRONDO
ACOYA	ALMANSA	ARANDIA	ARRONGE
ACUESTA	ALMANZA	ARANDO	ARRONIZ
ACUNA	ALMANZAN	ARANDULES	ARRONTE
ACUSTA	ALMANZAR	ARANEGUI	ARROYA
ADAME	ALMANZO	ARANETA	ARROYAS
ADAMES	ALMAQUER	ARANGO	ARROYAVE
ADAMEZ	ALMARAS	ARANGUA	ARROYO
ADAN	ALMARAZ	ARANGUIZ	ARROYOS
ADANZA	ALMARES	ARANGURE	ARROZ
ADARGO	ALMAREZ	ARANGUREN	ARRUE
ADAROS	ALMARZA	ARANIBAR	ARRUFAT
ADAUTO	ALMAZAN	ARANJON	ARSATE
ADELO	ALMEDA	ARANO	ARSOLA
ADONA	ALMEDINA	ARANZA	ARSUAGA
ADORNO	ALMEJO	ARANZAZU	ARTACHE
ADRIASOLA	ALMENA	ARANZUBIA	ARTALEJO
ADROVER	ALMENAR	ARAOZ	ARTAU
ADROVET	ALMENARA	ARAQUE	ARTAUD
ADUNA	ALMENARES	ARATER	ARTAVIA
ADVINCULA	ALMENDARES	ARAUGO	ARTAZA
AEDO	ALMENDAREZ	ARAUS	ARTEA
AFAN	ALMENDARIZ	ARAUSA	ARTEAGA

AFANADOR	ALMENDRAL	ARAUX	ARTEAGO
AFRE	ALMENDRAS	ARAUZ	ARTECHE
AGADO	ALMENGER	ARAUZA	ARTECONA
AGALA	ALMENGOR	ARAVENA	ARTEGA
AGANZA	ALMERA	ARAVJO	ARTEGO
AGAPITO	ALMERAZ	ARAYA	ARTELLAN
AGEITOS	ALMERIA	ARAYATA	ARTERO
AGIRRE	ALMESTICA	ARBALLO	ARTESONA
AGON	ALMEYDA	ARBELAEZ	ARTETA
AGOSTO	ALMEZQUITA	ARBELBIDE	ARTIAGA
AGRA	ALMIRALL	ARBELLO	ARTIDIELLO
AGRAIT	ALMIRUDIS	ARBELO	ARTIEDA
AGRAMONTE	ALMODOBAR	ARBESU	ARTIGA
AGRAS	ALMODOUAR	ARBIDE	ARTIGAS
AGRAZ	ALMODOVA	ARBISO	ARTIGO
AGREDA	ALMODOVAR	ARBIZO	ARTILES
AGREDANO	ALMOGABAR	ARBIZU	ARTIME
AGREGADO	ALMOGUERA	ARBOLAEZ	ARTIZ
AGRONT	ALMOINA	ARBOLAY	ARTOLA
AGUABELLA	ALMONACID	ARBOLEDA	ARTOLOZAGA
AGUADO	ALMONDOVAR	ARBOLEYA	ARTURET
AGUALLO	ALMONTE	ARBONA	ARTUZ
AGUANO	ALMONTES	ARBUCIAS	ARUCA
AGUARISTI	ALMORA	ARBURUA	ARUFE
AGUAS	ALMUINA	ARCA	ARUIZU
AGUASVIVAS	ALOMA	ARCACHA	ARUJO
AGUAYA	ALOMAR	ARCADIA	ARUS
AGUAYO	ALONA	ARCARAZO	ARUZ
AGUDELO	ALONSO	ARCAS	ARVALLO
AGUDO	ALONZO	ARCAUTE	ARVAYO
AGUEDA	ALOY	ARCAY	ARVELO
AGUELAR	ALOYO	ARCAYA	ARVISU
AGUERA	ALPIZAR	ARCE	ARVIZA
AGUERO	ALPUCHE	ARCEGA	ARVIZO
AGUEROS	ALPUIN	ARCELAY	ARVIZU
AGUERRE	ALQUICIRA	ARCELO	ARZA
AGUERREBERE	ALSINA	ARCELONA	ARZABAL
AGUERRIA	ALTAGRACIA	ARCENTALES	ARZABALA
AGUET	ALTAMIRA	ARCEO	ARZAGA
AGUIGUI	ALTAMIRANO	ARCHE	ARZAGOITIA
AGUILA	ALTARRIBA	ARCHIBEQUE	ARZAMENDI
AGUILAR	ALTENES	ARCHILA	ARZAPALO
AGUILER	ALTIMIRANO	ARCHILLA	ARZATE
AGUILERA	ALTONAGA	ARCHULETA	ARZAVE
AGUILES	ALTOSINO	ARCHULETO	ARZENO
AGUILLAR	ALTRECHE	ARCHULETTA	ARZOLA
AGUILLEN	ALTUBE	ARCHULTA	ARZON
AGUILLERA	ALTUNA	ARCHUNDE	ARZU

AGUILLON	ALTUR	ARCHUNDIA	ARZUAGA
AGUILO	ALTURET	ARCHUTETA	ASAD
AGUILON	ALTUZARRA	ARCHVLETA	ASCANO
AGUILOR	ALUAREZ	ARCIA	ASCAR
AGUILOS	ALUIZO	ARCIAGA	ASCARATE
AGUILU	ALUSTIZA	ARCIBA	ASCARRUNZ
AGUILUZ	ALUYON	ARCIDES	ASCENCIO
AGUINAGA	ALVA	ARCIGA	ASCENCION
AGUINIGA	ALVANADO	ARCILA	ASCENSIO
AGUINO	ALVARA	ARCINAS	ASCUNCE
AGUINS	ALVARADA	ARCINIAGA	ASEBEDO
AGUIRE	ALVARADO	ARCINIEGA	ASENCIO
AGUIRRA	ALVARAZ	ARCINO	ASENCION
AGUIRRE	ALVARDEZ	ARCIZO	ASENJO
AGUIRRECHU	ALVARDO	ARCOS	ASENSIO
AGUIRREGAVIRIA	ALVAREDO	ARCOVERDE	ASEO
AGUIRRES	ALVARENGA	ARCULETA	ASEVEDO
AGUIRREZABAL	ALVARES	ARDAIZ	ASEVES
AGULAR	ALVAREZ	ARDANAZ	ASIS
AGULIAR	ALVARIDO	ARDANS	ASOMOZA
AGULLES	ALVARINO	ARDANZ	ASPEITIA
AGULLO	ALVARODO	ARDAVIN	ASPERIN
AGUNDES	ALVARRAN	ARDIGO	ASPEYTIA
AGUNDEZ	ALVARY	ARDILA	ASPIAZU
AGUNDIS	ALVEAR	ARDILLA	ASPILAGA
AGUNDIZ	ALVELAIS	ARDOIS	ASPIRAS
AGUON	ALVELO	ARDON	ASPRA
AGURRIES	ALVERADO	AREA	ASPURIA
AGURTO	ALVERANGA	AREAN	ASPURO
AGUSTI	ALVERES	AREAS	ASPURU
AGVILAR	ALVEREZ	AREBALO	ASSEO
AHEDO	ALVERIO	AREBALOS	ASSIS
AHIN	ALVERO	ARECES	ASTACIO
AHUERO	ALVEZ	ARECHAGA	ASTENCIO
AHUMADA	ALVIAR	ARECHAVALETA	ASTENGO
AIBAR	ALVIDRES	ARECHE	ASTIAZARAN
AINSA	ALVIDREZ	ARECHIGA	ASTIZ
AINZ	ALVILLAR	ARECO	ASTOL
AINZA	ALVIRA	AREDONDO	ASTORGA
AIRA	ALVIRDE	AREGON	ASTRAN
AISA	ALVIREZ	AREGULLIN	ASTUDILLO
AISO	ALVISO	AREIZAGA	ASTURIAS
AISPURO	ALVITRE	AREJULA	ASUA
AIZPURU	ALVIZAR	ARELANO	ASUEGA
AJUNTAS	ALVIZO	ARELLANA	ASUNSOLO
AJURIA	ALVIZU	ARELLAND	ASURMENDI
ALABADO	ALVO	ARELLANDO	ASUSTA
ALACAN	ALVORADO	ARELLANES	ATALA

ALACAR	ALZA	ARELLANEZ	ATANACIO
ALADRO	ALZAGA	ARELLANO	ATANCIO
ALAEZ	ALZALDE	ARELLANOS	ATAYDE
ALAFA	ALZATE	ARELLIN	ATECA
ALAFFA	ALZINA	ARENAL	ATEHORTUA
ALAGA	ALZOLA	ARENAS	ATENCIO
ALAGO	ALZUGARAY	ARENAZ	ATIENZA
ALAMAN	ALZURI	ARENAZA	ATIENZO
ALAMANO	AMABISCA	ARENCIBIA	ATILANO
ALAMANZA	AMADOR	ARENDAIN	ATILES
ALAMARES	AMAGO	ARENIBAS	ATONDO
ALAMBAR	AMALBERT	ARENIVAR	ATRA
ALAMEDA	AMALLA	ARENIVAS	ATRIO
ALAMIA	AMARGOS	ARES	ATTENCIO
ALAMILLA	AMARILLA	ARESTEGUI	ATUCHA
ALAMILLO	AMARILLAS	AREU	AUCES
ALAMO	AMARO	AREVALO	AUDELO
ALAMOS	AMAVISCA	AREVALOS	AUFFANT
ALANIS	AMAVIZCA	AREYAN	AUGILAR
ALANIZ	AMAYA	AREYANO	AUILA
ALANSO	AMBE	ARFE	AUILES
ALANZO	AMBEGUIA	ARGAEZ	AULET
ALAUINES	AMBERT	ARGAIN	AUMADA
ALAUINEZ	AMBIA	ARGAIS	AURIOLES
ALARCO	AMBRIS	ARGANDA	AURRECOECHEA
ALARCON	AMBRIZ	ARGANDONA	AUZA
ALARD	AMEJORADO	ARGANZA	AVALA
ALARDE	AMELY	ARGEANAS	AVALO
ALARDIN	AMENABAR	ARGEL	AVALOS
ALARI	AMENEDO	ARGENAL	AVALOZ
ALARICO	AMENGUAL	ARGENTIN	AVARCA
ALARID	AMESCUA	ARGIBAY	AVECHUCO
ALARY	AMESGUITA	ARGIL	AVECILLAS
ALAS	AMESOLA	ARGILAGOS	AVELAR
ALATORRE	AMESQUA	ARGIZ	AVELLAN
ALATRISTE	AMESQUITA	ARGOMANIZ	AVELLANAL
ALAVA	AMESTI	ARGOTE	AVELLANEDA
ALAVARADO	AMESTOY	ARGUDIN	AVELLANET
ALAVARDO	AMEZAGA	ARGUDO	AVENDANO
ALAYA	AMEZCUA	ARGUELIES	AVIGAEL
ALAYETO	AMEZOLA	ARGUELL	AVILA
ALAYO	AMEZQUITA	ARGUELLES	AVILAS
ALAYON	AMEZUA	ARGUELLEZ	AVILES
ALBA	AMIAL	ARGUELLO	AVILEZ
ALBACETE	AMIEIRO	ARGUERA	AVILLAN
ALBALADEJO	AMIEVA	ARGUESO	AVILUCEA
ALBALATE	AMIGO	ARGUETA	AVINA
ALBALOS	AMILL	ARGUEZ	AVITA

ALBANA	AMIRA	ARGUIJO	AVITEA
ALBANDOZ	AMIRES	ARGUILEZ	AVITIA
ALBANEZ	AMOR	ARGUILLES	AVITUA
ALBAREDA	AMORES	ARGUILLIN	AYABARRENO
ALBARENGA	AMOROS	ARGUINDEGUI	AYALA
ALBAREZ	AMOROZ	ARGUINZONI	AYALLA
ALBARICO	AMOSTEGUI	ARGULA	AYALO
ALBARRACIN	AMUZURRUTIA	ARGULLIN	AYAN
ALBARRAN	AMPARAN	ARGUMANIZ	AYARZAGOITIA
ALBEAR	AMPARANO	ARGUMEDO	AYBAR
ALBELO	AMPARO	ARGUMOSA	AYCART
ALBERCA	AMPUDIA	ARIA	AYENDE
ALBERIO	AMPUERO	ARIAS	AYERBE
ALBERRO	ANADON	ARIAZ	AYERDI
ALBERTORIO	ANALCO	ARIAZA	AYERZA
ALBERU	ANALLA	ARIBAS	AYES
ALBEZ	ANAMOSA	ARICHETA	AYESTARAN
ALBIAR	ANASAGASTI	ARIEY	AYLLON
ALBIDRES	ANAYA	ARIGA	AYMAT
ALBIDREZ	ANAZAGASTY	ARIGULLIN	AYMERICH
ALBILLAR	ANCHANDO	ARILES	AYOLA
ALBINES	ANCHIA	ARINEZ	AYON
ALBIOL	ANCHIETA	ARINO	AYORA
ALBISO	ANCHONDO	ARISMENDEZ	AYOROA
ALBITRE	ANCHUNDIA	ARISMENDI	AYUSO
ALBIZO	ANCIRA	ARISOLA	AZA
ALBIZU	ANCISO	ARISPE	AZARES
ALBO	ANDA	ARISSO	AZCANO
ALBONIGA	ANDABLO	ARISTA	AZCARATE
ALBOR	ANDALON	ARISTE	AZCARRAGA
ALBORNOZ	ANDALUZ	ARISTIZABAL	AZCARRETA
ALBORS	ANDASOLA	ARISTO	AZCOITIA
ALBUERNE	ANDAVAZO	ARISTONDO	AZCONA
ALBUJAR	ANDAVERDE	ARISTUD	AZCUE
ALBURQUERQUE	ANDAZOLA	ARISTY	AZCUI
ALCADE	ANDEREZ	ARIYASU	AZCUY
ALCAIDA	ANDIARENA	ARIZ	AZIOS
ALCAIDE	ANDINA	ARIZA	AZNAR
ALCALA	ANDINO	ARIZABAL	AZNAREZ
ALCALAN	ANDOLLO	ARIZABALETA	AZOCA
ALCALDE	ANDRACA	ARIZAGA	AZOCAR
ALCANIZ	ANDRADA	ARIZALA	AZOFRA
ALCANTA	ANDRADE	ARIZALETA	AZOR
ALCANTAR	ANDRADES	ARIZMENDEZ	AZOY
ALCANTARA	ANDRADO	ARIZMENDI	AZPEITIA
ALCANTARO	ANDREOLAS	ARIZMENDIS	AZPIAZU
ALCANTOR	ANDREU	ARIZMENDIZ	AZPIRI
ALCARAS	ANDREZ	ARIZOLA	AZPIROZ

ALCARAZ  
ALCAREZ  
ALCASAS  
ALCAYDE  
ALCAZAR  
ALCE

ANDRIAL  
ANDRINO  
ANDUAGA  
ANDUEZA  
ANDUIZA  
ANDUJA

ARIZON  
ARIZPE  
ARIZTIA  
ARIZU  
ARJON  
ARJONA

AZUA  
AZUARA  
AZUCENA  
AZUELA  
AZUETA  
AZURDIA

**APPENDIX O**

**1980 CENSUS LIST OF SPANISH SURNAMES**

**BAB-BUZ**

See Index to Spanish Names

BABARAN	BARCON	BELMUDEZ	BOLIVAR
BABIDA	BARCOS	BELNAS	BOLOIX
BABILONIA	BARDALES	BELOZ	BOLTARES
BABIO	BARDINAS	BELTRA	BOLUFE
BACA	BARDISA	BELTRAN	BOMBALIER
BACALLAO	BAREA	BELTRANENA	BONACHEA
BACARDI	BARED	BELTRE	BONAFONT
BACCA	BARELA	BELVADO	BONAL
BACELIS	BARELAS	BENABE	BONALES
BACERRA	BARENCO	BENABIDES	BONEFONT
BACHICHA	BARENO	BENADO	BONET
BACILIO	BARETTO	BENALCAZAR	BONETA
BACOS	BAREZ	BENALLO	BONICHE
BACOSA	BARGARA	BENAUIDES	BONILLA
BADA	BARGAS	BENAVEDIZ	BONILLAS
BADAJOS	BARGOS	BENAVENT	BONILLO
BADAJOSA	BARGUIARENA	BENAVENTE	BONUZ
BADELLA	BARILLAS	BENAVIDAS	BORAD
BADELLO	BARIN	BENAVIDES	BORBOA
BADIA	BARINAS	BENAVIDEZ	BORBOLLA
BADIAL	BARLOCO	BENAVIDOS	BORBON
BADIAS	BARNACHEA	BENCOMO	BORDAGARAY
BADILLA	BARO	BENCOSME	BORDALLO
BADILLO	BAROCIO	BENDALIN	BORDANO
BADIO	BAROJAS	BENDAMIO	BORDAYO
BADIOLA	BAROS	BENEGAS	BORDEGARAY
BAELLA	BAROSELA	BENEJAN	BORDENAVE
BAELLO	BAROZ	BENERO	BORDOY
BAENA	BARQUERA	BENESTANTE	BOREGO
BAERGA	BARQUERO	BENETEZ	BORELA
BAESA	BARQUET	BENEVIDEZ	BORERO
BAEZ	BARQUEZ	BENGOA	BORGUEZ
BAEZA	BARQUIN	BENGOCHEA	BORJA
BAEZCRUZ	BARRAD	BENIGUEZ	BORJAS
BAGU	BARRAGAN	BENINE	BORJON
BAGUE	BARRAGAR	BENIQUEZ	BORNIA
BAGUER	BARRAGON	BENITES	BORONDA
BAGUERO	BARRAJAS	BENITEZ	BORONDO
BAGUES	BARRAL	BENITO	BOROVAY

BAGUEZ	BARRALES	BENITOA	BORQUEZ
BAHADUE	BARRAMEDA	BENOVIDEZ	BORRAJO
BAHAMON	BARRANDEY	BENTA	BORRAS
BAHAMONDE	BARRANO	BENTANCOUR	BORRAYO
BAHAMONDES	BARRANTES	BENTANCOURT	BORREGO
BAHAMUNDI	BARRAQUE	BENTANCUD	BORRER
BAHENA	BARRARA	BENTANCUR	BORRERO
BAIDA	BARRASA	BENTURA	BORRICO
BAIGEN	BARRATACHEA	BENUDIZ	BORRIOS
BAILEZ	BARRAZ	BENUN	BORROEL
BAILLERES	BARRAZA	BENZAQUEN	BORROTO
BAILON	BARREDA	BEOVIDES	BORRUEL
BAIRES	BARREDO	BEQUER	BORUNDA
BAISA	BARREGO	BERAIN	BOSMENIER
BAISDON	BARREIRO	BERASATEGUI	BOSQUE
BAIZ	BARRENA	BERAZA	BOSQUES
BAIZA	BARRENECHE	BERBAN	BOSQUEZ
BAJADA	BARRENECHEA	BERBENA	BOTANA
BAJANA	BARRENO	BERBER	BOTARD
BAJANDAS	BARRERA	BERBERENA	BOTAS
BAJE	BARRERAGARCIA	BERCEDONIS	BOTELL
BAJO	BARRERAS	BERDEAL	BOTELLA
BALADES	BARRERAZ	BERDECIA	BOTELLO
BALADEZ	BARRERO	BERDEJA	BOTERO
BALADO	BARRETA	BERDEJO	BOTILLER
BALADRON	BARRETO	BERDUGO	BOTILLO
BALAEZ	BARREZUETA	BERDUSCO	BOUCOURT
BALAGIA	BARRIA	BEREA	BOULLON
BALAGOT	BARRIAGA	BEREAL	BOUZA
BALAGUE	BARRIAL	BERENGUER	BOUZAS
BALAGUER	BARRIAS	BERENY	BOVADILLA
BALAGUERA	BARRIENTES	BERGADO	BOVEDA
BALAIS	BARRIENTEZ	BERGARA	BOVES
BALAJADIA	BARRIENTO	BERGEZ	BRACAMONTE
BALANDRA	BARRIENTOS	BERGOLLA	BRACAMONTES
BALANDRAN	BARRIERA	BERICOCHEA	BRACAMONTEZ
BALANDRANO	BARRIERO	BERJAN	BRACERO
BALANGA	BARRIGA	BERLANGA	BRACEROS
BALANON	BARRILLAS	BERLANGO	BRACHO
BALANZA	BARRIO	BERMEA	BRADOR
BALAREZO	BARRIONUEVO	BERMEJILLO	BRAMASCO
BALARIN	BARRIOS	BERMEJO	BRAMBILA
BALART	BARRO	BERMEO	BRAMBILL
BALASQUIDE	BARROCAS	BERMUDA	BRAN
BALBANEDA	BARRONA	BERMUDES	BRANA
BALBAS	BARROSA	BERMUDEZ	BRANCACHO
BALBASTRO	BARROSO	BERMUNDEZ	BRANCACIO
BALBIN	BARROTERAN	BERNABE	BRANDARIZ



BALBINA	BARROZA	BERNAL	BRANUELAS
BALBOA	BARROZO	BERNALDEZ	BRASSELERO
BALBONA	BARRUECO	BERNALL	BRASUEL
BALBONTIN	BARRUETA	BERNARDEZ	BRAULIO
BALBUENA	BARSENAS	BERNDES	BRAVO
BALCACER	BARTOLOME	BERNELL	BREA
BALCARCEL	BARTOLOMEY	BERNEZ	BRECEDA
BALCAZAR	BARTUREN	BERNUDEZ	BREIJO
BALCELLS	BARZA	BEROIZ	BREMA
BALCORTA	BARZAGA	BERONDA	BRENES
BALDARAMOS	BARZANA	BERRAYARZA	BRENLLA
BALDARRAMA	BARZILLA	BERRELES	BRETADO
BALDARRAMOS	BARZIZA	BERRELEZ	BRETO
BALDAZO	BARZOLA	BERRELLEZ	BRETOS
BALDELOMAR	BAS	BERRELLEZA	BRIALES
BALDENEGRO	BASABE	BERRERA	BRIANO
BALDEON	BASADRE	BERREYESA	BRIAS
BALDERA	BASAITES	BERRIOS	BRIBIESCA
BALDERAMA	BASALDO	BERRIOZABAL	BRIBIESCAS
BALDERAMOS	BASALDU	BERRIZ	BRICENO
BALDERAS	BASALDUA	BERROA	BRIENO
BALDERAZ	BASALDUE	BERROCAL	BRIEVA
BALDEROS	BASALLO	BERROCALES	BRIGNONI
BALDERRAMA	BASALO	BERRONES	BRIJALBA
BALDERS	BASALOVA	BERROS	BRIJIL
BALDEVARONA	BASANES	BERROSPE	BRILLANTES
BALDEZ	BASANEZ	BERROTERAN	BRINGAS
BALDILLEZ	BASANO	BERRU	BRINGUEZ
BALDIT	BASANTES	BERRUECO	BRIO
BALDIVIA	BASCON	BERRUECOS	BRIONES
BALDIVIEZ	BASCONCILLO	BERSOSA	BRIONEZ
BALDIZAN	BASCOY	BERSOZA	BRISENO
BALDIZON	BASCUAS	BERTAINA	BRISITA
BALDOMERO	BASDEO	BERTOT	BRISO
BALDONADO	BASILLA	BERTRAN	BRISUELA
BALDOQUIN	BASOCO	BERUBEN	BRITO
BALDOR	BASORA	BERUMEN	BRIZ
BALDOVINO	BASQUES	BERUVIDES	BRIZAL
BALDOVINOS	BASQUEZ	BERZOZA	BRIZENO
BALDOZ	BASTANCHURY	BESA	BRIZO
BALDRICHE	BASTARDO	BESADA	BRIZUELA
BALEME	BASTERRECHEA	BESARES	BROCAS
BALENCIA	BASTIDA	BESCOS	BROCHE
BALERIO	BASTIDAS	BESERRA	BRONDO
BALERO	BASTIDOS	BESINAIZ	BROTONS
BALESTERRI	BASUA	BESTARD	BRUCELAS
BALGOS	BASUALDO	BESTEIRO	BRUCIAGA
BALIA	BASULTO	BESU	BRUGUERA

BALIDO	BASURA	BETANCE	BRUGUERAS
BALINA	BASURCO	BETANCES	BRUSUELAS
BALIZAN	BASURTO	BETANCIS	BRUZOS
BALLADARES	BATALLA	BETANCOURT	BUANTELO
BALLADAREZ	BATALLAN	BETANCOURTH	BUBELA
BALLAGAS	BATAN	BETANCUR	BUCETA
BALLARDO	BATANIDES	BETANCURT	BUCIO
BALLATE	BATILLA	BETETA	BUELNA
BALLEJO	BATINE	BETHENCOURT	BUENABAD
BALLEJOS	BATIST	BETONCOURT	BUENAFE
BALLERAS	BATISTA	BETRAN	BUENAVENTURA
BALLESTA	BATIZ	BEXAR	BUENCONSEJO
BALLESTAS	BATIZA	BEZA	BUENDEL
BALLESTE	BATLLE	BEZANILLA	BUENDIA
BALLESTER	BATLLIA	BEZARES	BUENFIL
BALLESTERAS	BATRES	BEZERRA	BUENO
BALLESTERO	BATREZ	BIANE	BUENROSTRO
BALLESTEROS	BATRIZ	BIANES	BUENRROSTRO
BALLESTROS	BATULE	BIANGEL	BUENSUCESO
BALLEZ	BAUSA	BIAR	BUENTELLO
BALLEZA	BAUSTISTA	BIASCOECHEA	BUENTEO
BALLI	BAUTA	BIBIAN	BUENTIEMPO
BALLINA	BAUTISTA	BIBIANO	BUENTILLO
BALLINAS	BAUZA	BIBILONI	BUERAS
BALLOTE	BAUZO	BICHARA	BUERES
BALMACEDA	BAYANILLA	BIDABE	BUERGO
BALMANA	BAYARDO	BIDAL	BUFANDA
BALMASEDA	BAYARENA	BIDART	BUGALLO
BALMORES	BAYAS	BIDET	BUGARIN
BALOSSO	BAYCORA	BIDO	BUIGAS
BALSA	BAYDES	BIDOT	BUIGUES
BALSECA	BAYLINA	BIEDMA	BUILES
BALSEIRO	BAYLON	BIELMA	BUILTRON
BALSERA	BAYO	BIENES	BUITRAGO
BALSINDE	BAYON	BIERA	BUITRON
BALTAR	BAYONA	BIGON	BUITUREIDA
BALTASAR	BAYRON	BILANO	BUITUREIRA
BALTAZAR	BAYUGA	BILBAO	BUJAN
BALTIERRA	BAZA	BILBRAUT	BUJANDA
BALTIERREZ	BAZAIN	BILLAFRANCO	BUJANOS
BALTODANO	BAZALDUA	BILLALBA	BUJOSA
BALUJA	BAZAMAN	BILLALOBOS	BULERIN
BALVANEDA	BAZAN	BILLESCAS	BULLAS
BALVERDE	BAZAURE	BINAS	BULNES
BALZOLA	BAZUA	BINELO	BULOS
BAMUELOS	BAZURTO	BINGOCHEA	BULTRON
BANA	BEADA	BINIMELIS	BURBANO
BANAGA	BEANES	BIRBA	BURBOA

BANAGAS	BEAS	BIRONDO	BURCET
BANALES	BEAZ	BIRRIEL	BURCIAGA
BANANDO	BECARIA	BIRRUETA	BURCIAGO
BANARER	BECCERA	BISA	BURCOS
BANARES	BECCERRA	BISBAL	BURDEOS
BANCES	BECEIRO	BISCAILUZ	BURGADO
BANCIELLA	BECENA	BISCAINO	BURGARA
BANDA	BECERA	BISCAYART	BURGENO
BANDERAS	BECERRA	BISTRAIN	BURGOA
BANDIN	BECERRIL	BISUANO	BURGOS
BANDURRAGA	BECERRO	BITELA	BURGUAN
BANEGAS	BECHARA	BITHORN	BURGUENO
BANEZ	BECHO	BITOLAS	BURGUETE
BANIQUED	BECUAR	BLADUELL	BURIEL
BANOS	BEDIA	BLAJOS	BURILLO
BANREY	BEDOLLA	BLANCARTE	BURITICA
BANUELAS	BEDOY	BLANCAS	BURNEO
BANUELOS	BEDOYA	BLANCO	BURNIAS
BANUET	BEGA	BLANCOCERDA	BURQUEZ
BANVELOS	BEGANO	BLANES	BURRA
BAO	BEGONA	BLANQUET	BURRIEL
BAPTISTO	BEGUIRISTAIN	BLANQUEZ	BURRIOLA
BAQUEDANO	BEIRO	BLANQUIZ	BURROLA
BAQUERA	BEISTEGUI	BLASQUEZ	BURRON
BAQUERIZO	BEITIA	BLAYA	BURRUEL
BAQUERO	BEITRA	BLAZQUEZ	BURSIAGA
BAQUIRAN	BEJAR	BLEA	BURUATO
BARAGAN	BEJARAN	BLONDET	BUSIGO
BARAGANA	BEJARANO	BOADA	BUSQUET
BARAGAS	BEJERANO	BOADO	BUSQUETS
BARAHONA	BEJINES	BOBADILLA	BUSTABAD
BARAJAS	BEJINEZ	BOBADILLO	BUSTABADE
BARAJOS	BELA	BOBE	BUSTAMANTE
BARALT	BELANCOURT	BOBEA	BUSTAMANTES
BARANDA	BELANDRES	BOBEDA	BUSTAMANTEZ
BARANDIARAN	BELARDE	BOBELE	BUSTAMARTE
BARASORDA	BELARDES	BOBIAN	BUSTAMENTE
BARAY	BELARDO	BOBILLO	BUSTAMONTE
BARAZ	BELASQUEZ	BOCACHICA	BUSTANANTE
BARBA	BELASQUIDA	BOCANEGRA	BUSTAS
BARBACHANO	BELAUNDE	BOCARDI	BUSTED
BARBARENA	BELAUNZARAN	BOCHAS	BUSTELO
BARBASA	BELAUSTEGUI	BODERO	BUSTEMANTE
BARBEITO	BELAVAL	BODIROGA	BUSTILLO
BARBERAN	BELCHEZ	BOERAS	BUSTILLOS
BARBERENA	BELDEROL	BOEZ	BUSTINZA
BARBOA	BELÉN	BOFILL	BUSTIO
BARBOLA	BELENDEZ	BOGARIN	BUSTO

BARBONTIN	BELETTE	BOHORQUEZ	BUSTOS
BARBOSA	BELEZ	BOILES	BUSTOZ
BARCALA	BELIO	BOITES	BUSUTIL
BARCELO	BELLAFLORES	BOJORGES	BUTANDA
BARCELON	BELLEZ	BOJORGUEZ	BUTERO
BARCENA	BELLIARD	BOJORQUES	BUTRON
BARCENAS	BELLIDO	BOJORQUEZ	BUTTANDA
BARCENES	BELLMAS	BOLADERES	BUXEDA
BARCENEZ	BELLOSO	BOLADO	BUXO
BARCENILLA	BELMARES	BOLANO	BUYON
BARCIA	BELMAREZ	BOLANOS	BUZANI
BARCIGALUPIA	BELMONTES	BOLEDA	BUZNEGO
BARCIMO	BELMONTEZ	BOLET	BUZO
BARCINAS	BELMUDES		

**APPENDIX O**

**1980 CENSUS LIST OF SPANISH SURNAMES**

**CAA-CUZ**

See Index to Spanish Names

CAAL	CAPUCHIN	CAVLA	COLET
CAAMAL	CAPUCHINA	CAVOS	COLIMA
CAAMANO	CAPUCHINO	CAVOZOS	COLINA
CAAMPUED	CAQUIAS	CAYADO	COLINDRES
CABA	CARABA	CAYANAN	COLIO
CABADA	CARABAJAL	CAYCEDO	COLLADA
CABAL	CARABAL	CAYERE	COLLADO
CABALEIRO	CARABALLO	CAYEROS	COLLANTES
CABALLA	CARABALLOPEREZ	CAYIAS	COLLASO
CABALLER	CARABANTES	CAYON	COLLAZO
CABALLERO	CARABAY	CAYEULA	COLLOZO
CABALLEROS	CARABAZA	CAYUSO	COLLS
CABALLES	CARABELLA	CAZAMIAS	COLMENAR
CABALLO	CARABEO	CAZANAS	COLMENARES
CABAN	CARABES	CAZARES	COLMENERO
CABANAS	CARABEZ	CAZAREZ	COLOCHO
CABANELAS	CARACENA	CAZARIN	COLOCIO
CABANERO	CARACHEO	CAZON	COLODRO
CABANILLAS	CARACOSA	CDEBACA	COLOM
CABANZON	CARACOZA	CDEVACA	COLOMA
CABARCAS	CARAJAL	CEBADA	COLOMAR
CABARCOS	CARALT	CEBALLES	COLOMBANA
CABARGA	CARAMBOT	CEBALLO	COLOMBANI
CABASA	CARAMEROS	CEBALLOS	COLOMBERO
CABASIER	CARAMES	CEBEY	COLOME
CABASOS	CARAMILLO	CEBOLLERO	COLOMER
CABASSA	CARANTA	CEBRERO	COLOMES
CABASSO	CARANZA	CEBREROS	COLOMINAS
CABAZA	CARAPIA	CEBRIAN	COLOMO
CABAZOS	CARARA	CECENA	COLON
CABEIRO	CARASA	CEDANO	COLONDRES
CABEJE	CARASCO	CEDENO	COLONNETTA
CABELLERO	CARATACHEA	CEDILLO	COLONTORRES
CABELLO	CARATAN	CEDILLOS	COLORADO
CABERA	CARATTINI	CEDINO	COLORBIO
CABERERA	CARAVACA	CEDO	COLORE
CABERRA	CARAVAJAL	CEGARRA	COLORES
CABESUELA	CARAVANTES	CEGUEDA	COLOROSO
CABEZA	CARAVAYO	CEIDE	COLSA

CABEZADEBACA	CARAVEO	CEIJAS	COLUDRO
CABEZAS	CARAVES	CEJA	COLUMBIE
CABEZUDO	CARAZA	CEJAS	COLUNGA
CABEZUELA	CARAZO	CEJO	COMACHO
CABIAS	CARBA	CEJUDO	COMADURAN
CABIDO	CARBAJAL	CELA	COMAS
CABIEDES	CARBAJALES	CELADA	COMBARRO
CABIGAS	CARBAJO	CELADO	COMELLAS
CABILLO	CARBALLAR	CELARDO	COMESANA
CABLA	CARBALLEA	CELAYA	COMESANAS
CABRALES	CARBALLEIRA	CELAYETA	COMON
CABRALEZ	CARBALLIDO	CELEDON	COMORRE
CABRANES	CARBALLO	CELEIRO	COMPANIONI
CABRE	CARBALLOSA	CELICEO	COMPARAN
CABREJA	CARBELLIDO	CELIS	COMPARY
CABREJAS	CARBIA	CELIZ	COMPEAN
CABREJOS	CARBONEL	CELORIO	COMPIAN
CABRER	CARBONELL	CENA	COMPITO
CABRERA	CARBOT	CENDAN	COMPOS
CABRERAS	CARCACHE	CENDEJAS	COMPTIS
CABRERIZO	CARCAMO	CENDOYA	CONCEPCION
CABRERO	CARCANA	CENICEROS	CONCEPTION
CABRERRA	CARCANAQUES	CENISEROS	CONCHA
CABRET	CARCANO	CENISEROZ	CONCHADO
CABREVA	CARCAS	CENOS	CONCHAS
CABRIALES	CARCELLERO	CENTELLAS	CONCHO
CABRIELES	CARDELLE	CENTENO	CONCHOLA
CABRILES	CARDELLES	CENTERO	CONCHOS
CABRILLO	CARDENA	CENTURION	CONDADO
CABRILLOS	CARDENAL	CEPEDA	CONDARCO
CABRISAS	CARDENALES	CEPEDES	CONDE
CABRITO	CARDENAS	CEPERO	CONDENSA
CABRON	CARDENAZ	CERABELLA	CONEJERO
CABUENA	CARDENES	CERALDE	CONEJO
CABUTO	CARDENEZ	CERBANTES	CONESA
CACERAS	CARDENO	CERBANTEZ	CONFORME
CACERES	CARDENOS	CERCADO	CONRADO
CACEREZ	CARDENOSA	CERDA	CONRERAS
CACHARRON	CARDENTY	CERDEIRA	CONRIQUE
CACHO	CARDET	CERDEIRAS	CONRIQUEZ
CACHON	CARDEZA	CERECEDA	CONS
CACHORA	CARDIEL	CERECEDAS	CONSONERO
CACHUA	CARDINAS	CERECEDO	CONSTANCIO
CACICEDO	CARDINEZ	CERECERES	CONSTANTE
CADAHIA	CARDONA	CERECEREZ	CONSUEGRA
CADAVA	CARDONAS	CERECERO	CONSUELO
CADAVAL	CARDOSA	CEREIJO	CONTADOR
CADAVID	CARDOVA	CEREZO	CONTEMPRATO

CADAVIECO	CAREAGA	CERIN	CONTERAS
CADEMA	CARELA	CERMENO	CONTEREAS
CADENA	CARETA	CERNA	CONTERO
CADENAS	CARIAS	CERNAS	CONTIVAL
CADENAZ	CARIBE	CERNO	CONTRARAS
CADENGO	CARIDE	CERNUDA	CONTREAS
CADIERNO	CARIDES	CERON	CONTRERA
CADILLA	CARIELO	CERPA	CONTRERAS
CADILLO	CARIGA	CERRILLO	CONTRERASS
CADIS	CARILLO	CERRILLOS	CONTRERAZ
CADIZ	CARINGAL	CERRITOS	CONTRERES
CADORNIGA	CARINHAS	CERROS	CONTREROS
CADRIEL	CARIRE	CERTEZA	CONTRERRAS
CAGIGA	CARISALEZ	CERUANTES	CONTRESAS
CAGIGAL	CARLA	CERVANES	CONTRESTANO
CAGIGAS	CARLETTELLO	CERVANTE	CONTREVAS
CAGUIAS	CARLOS	CERVANTES	COPADO
CAHUE	CARMENATE	CERVANTEZ	COPETILLO
CAICEDO	CARMENATES	CERVENTES	COPRIVIZA
CAIGOY	CARMENATY	CERVERA	COQUOZ
CAILLAU	CARMOEGA	CESANI	CORA
CAINAS	CARMONA	CESENA	CORALES
CAINZOS	CARNERA	CESIN	CORANADO
CAJAR	CARNERO	CESPEDES	CORAZON
CAJAS	CARNICER	CESPEDEZ	CORBALA
CAJEN	CARNICERO	CESTERO	CORBEA
CAJERO	CARO	CEVALLO	CORBELLA
CAJIAO	CARONADO	CEVALLOS	CORBERA
CAJIDE	CAROPINO	CEVILLA	CORCES
CAJIGA	CARPENA	CEYANES	CORCHADO
CAJIGAL	CARPINTERO	CHABARRIA	CORCHERO
CAJIGAS	CARPINTEYRO	CHABERA	CORCHETE
CAJINA	CARPIO	CHABEZ	CORCHO
CAJO	CARPIZO	CHABOLLA	CORCINO
CAJUSTE	CARRABALLO	CHABOYA	CORCOLES
CALABAZA	CARRACEDO	CHABRIER	CORCOVELOS
CALAFAT	CARRADA	CHACA	CORDENIZ
CALAFELL	CARRADERO	CHACANACA	CORDERO
CALAMA	CARRAL	CHACON	CORDILLO
CALAMACO	CARRALEJO	CHADES	CORDOBA
CALAMARS	CARRALERO	CHADEZ	CORDOBES
CALAMON	CARRALES	CHAFFINO	CORDOLA
CALANA	CARRALEZ	CHAFINO	CORDONA
CALANCHE	CARRAMAN	CHAGAS	CORDOSO
CALANDRES	CARRANCA	CHAGOLLA	CORDOVA
CALAS	CARRANCO	CHAGOLLAN	CORDOVER
CALATAYUD	CARRANDI	CHAGOY	CORDOVES
CALBILLO	CARRANSA	CHAGOYA	CORDOVEZ

CALCADO	CARRANZA	CHAGOYAN	CORDOVI
CALCANEO	CARRASCO	CHAGOYEN	CORDOZA
CALCANO	CARRASCOSA	CHAGRA	COREANO
CALCINES	CARRASQUILLO	CHAGUACEDA	CORELLA
CALDA	CARRASO	CHAIDES	CORENTE
CALDARON	CARRASQUILLA	CHAIDEZ	CORIA
CALDAS	CARRASQUILLO	CHAIRA	CORIANO
CALDELAS	CARRATALA	CHAIREZ	CORIAM
CALDERA	CARRAU	CHALA	CORIZ
CALDERAS	CARRAZANA	CHALAMBAGA	CORMALIS
CALDERILLA	CARRAZCO	CHALDU	CORNEJO
CALDERIN	CARREAGA	CHAMARTIN	CORNEJOS
CALDERO	CARREDO	CHAMIZO	CORNIDE
CALDERON	CARREJO	CHAMORO	CORNIELL
CALDEVILLA	CARRENO	CHAMORRO	CORNIER
CALEJO	CARREON	CHANDARLIS	CORODOVA
CALENZANI	CARRERA	CHANES	COROMINAS
CALERA	CARRERAS	CHANEZ	CORONA
CALERO	CARRERO	CHANGALA	CORONADA
CALEZ	CARRETE	CHANO	CORONADO
CALIBO	CARRETERO	CHANONA	CORONAS
CALIENES	CARRETO	CHANTACA	CORONEL
CALIX	CARRIAGA	CHANTALA	CORPAS
CALIXTO	CARRIAZO	CHANTRES	CORPION
CALIXTRO	CARRICA	CHAPA	CORPORAN
CALIZ	CARRICABURU	CHAPARRO	CORPOS
CALLADO	CARRICARTE	CHAPELA	CORPUS
CALLANTA	CARRIDO	CHAPERO	CORRADA
CALLAVA	CARRIEDO	CHAPOY	CORRAL
CALLAZO	CARRIJO	CHAPPARO	CORRALEJO
CALLE	CARRIL	CHAPRALIS	CORRALES
CALLEIRO	CARRILES	CHAPRON	CORRALEZ
CALLEJAS	CARRILLA	CHARAFA	CORRALIZA
CALLEJO	CARRILLE	CHARANZA	CORRALLS
CALLEJON	CARRILLO	CHARBA	CORRCA
CALLEJOS	CARRILO	CHARBULA	CORREA
CALLELLA	CARRIO	CHARCA	CORREDERA
CALLEROS	CARRION	CHARCAS	CORREDOR
CALLES	CARRIQUE	CHARDON	CORREO
CALLEYRO	CARRISAL	CHARFAUROS	CORRES
CALLINICOS	CARRISALES	CHARNECO	CORRETJER
CALLISTRO	CARRISALEZ	CHARO	CORREU
CALOCA	CARRISOSA	CHARRES	CORRILLO
CALOMARDE	CARRISOZA	CHARRIA	CORRIPIO
CALONGA	CARRIZAL	CHARRIEZ	CORRIZ
CALONGE	CARRIZALES	CHARRIN	CORROS
CALONJE	CARRIZALEZ	CHARRIS	CORTADA
CALSADA	CARRIZO	CHARRO	CORTAZA



CALSADILLAS	CARRIZOSA	CHARVEZ	CORTAZAR
CALVEIRO	CARRIZOZA	CHATON	CORTES
CALVERA	CARRODEGUAS	CHAUARRIA	CORTEZ
CALVERO	CARROLA	CHAVANA	CORTIJO
CALVES	CARROSQUILLO	CHAVANNA	CORTINA
CALVET	CARRSCO	CHAVARELA	CORTINAS
CALVILLO	CARRUESCO	CHAVARIA	CORTINAZ
CALVO	CARTAGEN	CHAVARILLO	CORTINES
CALZADA	CARTAGENA	CHAVARIN	CORTINEZ
CALZADIAS	CARTAGO	CHAVARRA	CORTIZO
CALZADILLA	CARTANA	CHAVARRI	CORUGEDO
CALZADILLAS	CARTAS	CHAVARRIA	CORUJO
CALZADO	CARTAYA	CHAVARRIAGA	CORVAN
CALZIA	CARUAJAL	CHAVARRO	CORVERA
CALZONCIN	CARVAJAL	CHAVECO	CORVISON
CAMACH	CARVAJALES	CHAVERA	CORZA
CAMACHE	CARVAJALINO	CHAVERO	CORZO
CAMACHO	CASABLANCA	CHAVEZ	COS
CAMAMA	CASABO	CHAVIANO	COSCULLUELA
CAMANCHO	CASADAS	CHAVIRA	COSILLO
CAMANEZ	CASADES	CHAVIRO	COSILLOS
CAMANO	CASADO	CHAVOLLA	COSIO
CAMARAZA	CASADOS	CHAVOYA	COSME
CAMARELLA	CASAIS	CHAYRA	COSSIO
CAMARENA	CASAL	CHAYRE	COSSO
CAMARENO	CASALES	CHAYREZ	COSTALES
CAMARERO	CASALS	CHAZARO	COSTELON
CAMARGO	CASAMAYOR	CHAZARRETA	COSTILLA
CAMARILLO	CASANAS	CHECA	COSTILLO
CAMARO	CASANDRA	CHECO	COSTOSO
CAMARON	CASANOVA	CHEDA	COSTRUBA
CAMARRILLO	CASANOVAS	CHEMALI	COTA
CAMAYA	CASANUEVA	CHENTE	COTARELO
CAMAYD	CASARES	CHERENA	COTAYO
CAMBA	CASAREZ	CHERENE	COTELO
CAMBALIZA	CASARIEGO	CHERINO	COTERA
CAMBERO	CASARRUBIAS	CHERTA	COTERILLO
CAMBEROS	CASAS	CHESSANI	COTERO
CAMBIANICA	CASASNOVAS	CHEVANNES	COTILLA
CAMBIS	CASASOLA	CHEVARRIA	COTINOLA
CAMBLOR	CASASUS	CHEVAS	COTITTA
CAMBO	CASAUS	CHEVERES	COTO
CAMBON	CASAVANTES	CHEVEREZ	COTRINA
CAMCHO	CASCANTE	CHEVEZ	COTTES
CAMEJO	CASCON	CHEVRES	COTTO
CAMERENA	CASCOS	CHIAGO	COTULLA
CAMERO	CASCUDO	CHIAPA	COUARRUBIAS
CAMEZ	CASELAS	CHICA	COUCE

CAMILO	CASELLAS	CHICAS	COUCEYRO
CAMINA	CASERAS	CHICO	COUMPAROULES
CAMINAS	CASERES	CHICVARA	COUSO
CAMINERO	CASERMA	CHIDE	COUTIN
CAMOCHO	CASERO	CHIFALO	COUTINO
CAMORODA	CASERZA	CHIHUAHUA	COUVERTIER
CAMPA	CASES	CHILIMIDOS	COVARRUBIA
CAMPACOS	CASIA	CHIMAL	COVARRUBIAS
CAMPANERIA	CASIAN	CHINANA	COVARRUBIAZ
CAMPANIONI	CASIANO	CHINCHILLA	COVARRUBIO
CAMPAS	CASIAS	CHINEA	COVARRUVIAS
CAMPAZ	CASICA	CHINO	COVARRYBIAS
CAMPERO	CASIELLES	CHIONG	COVARUBIAS
CAMPILLO	CASILLA	CHIONO	COVAS
CAMPINS	CASILLAN	CHIOVARE	COVIAN
CAMPIRANO	CASILLAS	CHIPI	COVILLO
CAMPISTA	CASILLOS	CHIPRES	COVIO
CAMPIZ	CASINES	CHIQUES	COVO
CAMPOAMOR	CASIQUE	CHIQUETE	COVOS
CAMPODONICA	CASIQUITO	CHIQUITO	COYA
CAMPOLLA	CASIS	CHIRIBOGA	COYAZO
CAMPOMANES	CASMERO	CHIRINO	CREITOFF
CAMPORREDONDO	CASORLA	CHIRINOS	CREMAR
CAMPOS	CASPARIS	CHOA	CREMATA
CAMPOSAGRADO	CASPILLO	CHOLICO	CRESPIN
CAMPOVERDE	CASSARES	CHOMAT	CRESPO
CAMPOY	CASSAS	CHOMORI	CRiado
CAMPOZ	CASSIAS	CHONO	CRIBEIRO
CAMPOZANO	CASSILLAS	CHOPERENA	CRIOLLO
CAMPUSANO	CASSINERIO	CHORNA	CRIYOS
CAMPUZANO	CASSO	CHOTO	CRISANTES
CAMUEIRAS	CASTAIGNE	CHOUZA	CRISANTO
CAMUNAS	CASTAN	CHOZA	CRISANTOS
CAMUNES	CASTANA	CHUCA	CRISOSTO
CAMUNEZ	CASTANADA	CHUDALLA	CRISOSTOMO
CANA	CASTANARES	CHUMACERO	CRISTALES
CANABA	CASTANEADA	CHUMISO	CRISTAN
CANABAL	CASTANED	CHUPE	CRISTANCHO
CANABATE	CASTANEDA	CHURBE	CRISTERNA
CANAHUATI	CASTANEDO	CHURRUCA	CRISTIA
CANALDA	CASTANER	CIBERAY	CRISTIAN
CANALEJO	CASTANIETO	CIBRIAN	CRISTIN
CANALES	CASTANO	CICERON	CRISTOBAL
CANALEZ	CASTANOLA	CICILIA	CRISTOFOL
CANALITA	CASTANON	CID	CRIXELL
CANALS	CASTANOS	CIDDIO	CROSAS
CANAMAR	CASTANUELA	CIEGO	CROZ
CANAMERO	CASTANY	CIENA	CRUANES

CANAS	CASTEJON	CIENEGA	CRUANYAS
CANAVA	CASTELA	CIENEGAS	CRUCES
CANAVATI	CASTELAN	CIENFUEGOS	CRUCETA
CANAVERAL	CASTELANO	CIERRA	CRUZ
CANAVES	CASTELAO	CIFRE	CRUZADO
CANCEL	CASTELAR	CIFREDO	CRUZAT
CANCELA	CASTELAZO	CIFUENTES	CRUZATA
CANCELO	CASTELBLANCO	CIGAR	CRUZCOSA
CANCHE	CASTELDEORO	CIGARROA	CRUZCRUZ
CANCHOLA	CASTELEIRO	CILLERO	CRUZON
CANCINO	CASTELLANAS	CIMADEVILLA	CRUZRODRIGUEZ
CANCINOS	CASTELLANES	CIMARRON	CUADRA
CANCIO	CASTELLANOS	CIMENTAL	CUADRADO
CANDALES	CASTELLANOZ	CINDO	CUADRAS
CANDANEDO	CASTELLAR	CINEUS	CUADRAZ
CANDANO	CASTELLON	CINTA	CUADRO
CANDANOSA	CASTELLS	CINTAS	CUADROS
CANDANOZA	CASTELLVI	CINTORA	CUAN
CANDELARI	CASTELNAU	CINTRA	CUARA
CANDELARIA	CASTELO	CINTRON	CUARENTA
CANDELARIE	CASTENADA	CIONCO	CUARON
CANDELARIO	CASTENEDA	CIPRES	CUARTAS
CANDELAS	CASTIBLANCO	CIREROL	CUASCUT
CANDELERIA	CASTIEL	CIRES	CUATE
CANDIA	CASTILIO	CIRIA	CUBANO
CANDIAS	CASTILL	CIRIECO	CUBAS
CANEDA	CASTILLA	CIRILO	CUBENAS
CANEDO	CASTILLANOS	CIRIZA	CUBERO
CANEGATA	CASTILLAS	CIRLOS	CUBIAS
CANEIRO	CASTILLEJA	CIRULI	CUBILLAS
CANELA	CASTILLEJO	CISNER	CUBILLO
CANELLAS	CASTILLEJOS	CISNERAS	CUBILLOS
CANELLIS	CASTILLERO	CISNERNOS	CUBIO
CANELO	CASTILLIO	CISNERO	CUBRIEL
CANERO	CASTILLO	CISNEROS	CUCALON
CANES	CASTILLON	CISNEROZ	CUCUTA
CANET	CASTINEIRA	CISTERNA	CUEBA
CANETE	CASTINEIRAS	CIVEROLO	CUEBAS
CANEZ	CASTINEYRA	CLARA	CUELIAR
CANGA	CASTORENA	CLARIT	CUELLA
CANGAS	CASTORENO	CLARO	CUELLAR
CANION	CASTRA	CLAROS	CUELLER
CANISALES	CASTREJON	CLAROT	CUELLO
CANIZAL	CASTRELLON	CLAUDIO	CUEN
CANIZALES	CASTRESANA	CLAUSTRO	CUENCA
CANIZALEZ	CASTRILLO	CLAVEL	CUENCO
CANIZARES	CASTRILLON	CLAVELL	CUENTAS
CANIZAREZ	CASTRIZ	CLAVELO	CUENTO

CANJURA	CASTRO	CLAVERAN	CUERDO
CANLAS	CASTRODAD	CLAVERIA	CUERO
CANO	CASTROMAN	CLAVERO	CUERVO
CANOVAS	CASTRON	CLAVIJO	CUESTA
CANSECO	CASTROVERDE	CLEMENA	CUESTAS
CANSINO	CASTRUITA	CLERO	CUETO
CANTARERO	CASUL	CLIMENT	CUEVA
CANTERO	CASUSO	COBA	CUEVAS
CANTILLO	CATA	COBALLES	CUEVAZ
CANTORAN	CATACALOS	COBAR	CUEVOS
CANTOS	CATACHE	COBARRUBIA	CUILAN
CANTOU	CATALA	COBARRUBIAS	CUIN
CANTOYA	CATALAN	COBARRUBIO	CUIZON
CANTRE	CATALENA	COBARRUVIAS	CULEBRO
CANTRES	CATANACH	COBAS	CULTRERI
CANTU	CATANO	COBELO	CUMBA
CANTUA	CATAQUET	COBEO	CUMPIAN
CANTUTIJERINA	CATASCA	COBIAN	CUMPIANO
CANUELAS	CATASUS	COBIELLA	CUNANAN
CANZONA	CATEORA	COBIO	CUNES
CAPABLANCA	CATETE	COBO	CUNEZ
CAPACETE	CATOLICO	COBOS	CUNI
CAPARRA	CATZOELA	COBREIRO	CUNILL
CAPARROS	CAUAZOS	COCA	CUNYUS
CAPAS	CAUCE	COCIO	CUPELES
CAPATA	CAUDALES	CODINA	CUPRILL
CAPDEVILA	CAUDILLO	CODON	CURA
CAPELES	CAULA	CODORNIZ	CURBELLO
CAPELLAN	CAUNDER	COELLO	CURBELO
CAPELO	CAUSO	COFINO	CURET
CAPERON	CAVANAS	COFRESI	CURIEL
CAPESTANY	CAVASAS	COIRA	CURRAIS
CAPETILLO	CAVASOS	COLACION	CURRAS
CAPIFALI	CAVAZ	COLACO	CURREA
CAPILLA	CAVAZAS	COLARTE	CURZ
CAPIN	CAVAZOS	COLAS	CUSCO
CAPIRO	CAVAZOS	COLATO	CUSTODIA
CAPISTRAN	CAVEDA	COLCA	CUSTODIO
CAPLANO	CAVERO	COLCHADO	CUTIE
CAPMANY	CAVEZA	COLDERON	CUYA
CAPOTE	CAVIEDES	COLDIVAR	CUYAR
CAPRILES	CAVIEL	COLEGIO	CUZA
CAPRINE			

**APPENDIX O**

**1980 CENSUS LIST OF SPANISH SURNAMES**

**DAB-DUR**

See Index to Spanish Names

DABALOS	DEJESUS	DELMERCADO	DESEVILLA
DABILA	DEJESUSGARCIA	DELMORAL	DESIERRA
DACUMOS	DEJESUSORTIZ	DELMUNDO	DESIGA
DAGNESSES	DEJIMENEZ	DELMURO	DESOCARRAS
DAGO	DEJORIA	DELNODAL	DESOCARRAZ
DAGUERRE	DEJUAN	DELOA	DESOLO
DAGUILAR	DELAARENA	DELOEN	DESOSA
DALAMA	DELABARCA	DELOERA	DESOTO
DALBOSCO	DELABARCENA	DELOLMO	DESOTOMAYOR
DALIPE	DELABARRERA	DELOPEZ	DESPANIA
DALMAU	DELABARZA	DELORA	DESPLANTES
DALMIDA	DELABRA	DELORO	DESPUES
DANACHE	DELACABADA	DELOSADA	DESRAVINES
DANTUS	DELACAL	DELOSANGELES	DESSERO
DAPENA	DELACALLE	DELOSANTOS	DESTRADA
DARDANES	DELACAMARA	DELOSCOBOS	DESUACIDO
DARDIZ	DELACAMPA	DELOSMONTEROS	DETAPIA
DARDON	DELACANAL	DELOSPRADOS	DETEJADA
DARIAS	DELACERDA	DELOSREYES	DETEVIS
DARNAUD	DELACHICA	DELOSRIOS	DETOLEDO
DARQUEA	DELA CONCEPCION	DELOSSANT	DETORRES
DARRIBA	DELA CONCHA	DELOSSANTOS	DETRANALTES
DARUNA	DELACORTE	DELOYA	DETRES
DASTAS	DELACOTERA	DELOYOLA	DETRINIDAD
DATIL	DELACRUZ	DELOZA	DEULLOA
DAUBAR	DELACUADRA	DELOZADA	DEVACA
DAUILA	DELACUESTA	DELPALACIO	DEVALDEZ
DAUSA	DELACUEVA	DELPARDO	DEVALENCIA
DAUZ	DELACURZ	DELPILAR	DEVALLE
DAVALOS	DELAESPRIELLA	DELPIN	DEVALON
DAVILA	DELA FE	DELPINAL	DEVARA
DAVILAS	DELA FUENTE	DELPINO	DEVARGAS
DAVILLA	DELA FUENTES	DELPOR TILLO	DEVARONA
DAVILO	DELA FUNTE	DELPOSO	DEVASQUEZ
DAZA	DELAGADILLO	DELPOZO	DEVAZQUEZ
DCRUZ	DELAGADO	DELPRADO	DEVEGA
DEAGEN	DELAGARRIGUE	DELPUESTO	DEVELASCO
DEAGUERO	DELAGARZA	DELRAZO	DEVELEZ
DEAGUILAR	DELAGDO	DELREAL	DEVENCENTY

DEAGUIRRE	DELAGRANA	DELREY	DEVERA
DEALBA	DELAGUARDIA	DELRICO	DEVIA
DEALCALA	DELAGUERRA	DELRIEGO	DEVIAN
DEALEJANDRO	DELAGUILA	DELRINCON	DEVICENTE
DEALVA	DELAHERA	DELRIO	DEVICTORIA
DEALVAREZ	DELAHERRAN	DELRISCO	DEVILA
DEAMADOR	DELAHOYA	DELRIVERO	DEVILLA
DEANDA	DELAHOZ	DELROSAL	DEVILLAR
DEANDE	DELAHUERTA	DELROSARIO	DEVILLEGAS
DEANDRES	DELAISLA	DELSALTO	DEVOLIN
DEAQUERO	DELAJARA	DELSOL	DEYA
DEARAGON	DELALASTRA	DELTEJO	DEYCAZA
DEARCE	DELALCAZAR	DELTIEMPO	DEYNES
DEARCO	DELALLATA	DELTORO	DEZA
DEARCOS	DELALLAVE	DELUA	DEZAMORA
DEARELLANO	DELALLERA	DELUAO	DEZARA
DEARIAS	DEALOZA	DELUJAN	DEZARRAGA
DEARMAS	DELALTO	DELUNA	DEZAYAS
DEARO	DELALUZ	DELVAL	DEZUNIGA
DEARRIBA	DELAMADRID	DELVALLE	DIACOS
DEARRILLAGA	DELAMANCHA	DELVILLAR	DIAGO
DEARROYO	DELAMATA	DELVINO	DIAMOS
DEARTEAGA	DELAMAZA	DEMACIAS	DIASDELEON
DEASES	DELAMELLA	DEMALADE	DIAZ
DEAVILA	DELAMERCED	DEMARCHENA	DIAZACEVEDO
DEAYALA	DELAMO	DEMARIN	DIAZCOLON
DEAZEVEDO	DELAMORA	DEMARQUEZ	DIAZCRUZ
DEBACA	DELAMORENA	DEMARRERO	DIAZDEARCE
DEBARE	DELAMOTA	DEMARTINEZ	DIAZDELCAMPO
DEBARRA	DELANDA	DEMATA	DIAZDELCASTILLO
DEBATISTA	DELANGEL	DEMATAS	DIAZDELEON
DEBATO	DELANOVAL	DEMATEO	DIAZDEVILLEGAS
DEBAYONA	DELANUEZ	DEMEDINA	DIAZMEDINA
DEBESA	DELAO	DEMEIRE	DIAZPIEDRA
DEBONILLA	DELAOSA	DEMENA	DIAZRIVERA
DEBRAS	DELAOSSA	DEMENDEZ	DIAZRODRIGUEZ
DEBRAVO	DELAPARRA	DEMENDOZA	DIEGO
DEBRUYAN	DELAPASS	DEMERCADO	DIEGUEZ
DEBUENO	DELAPAZ	DEMESA	DIEPPA
DECABRAL	DELAPENA	DEMIGUEL	DIEZ
DECALDERON	DELAPEZA	DEMIRANDA	DIMAS
DECALLE	DELAPIEDRA	DEMOLINA	DIODONET
DECAMACHO	DELAPLATA	DEMONTEBELLO	DIODOSIO
DECANTU	DELAPORTILLA	DEMONTES	DIONES
DECAPRILES	DELAPOZA	DEMONTEVERDE	DIOS
DECARDENAS	DELAPRIDA	DEMONTOYA	DIOSDADO
DECASAS	DELAPUENTE	DEMORALES	DIOSES
DECASO	DELARA	DEMORENO	DIRECTO

DECASTANEDA	DELAREA	DEMOYA	DISARUFINO
DECASTILLO	DELAREZA	DEMUNOZ	DISLA
DECASTRO	DELARIOS	DEMURGA	DISTABILE
DECENA	DELARIVA	DENA	DOBAL
DECERDA	DELAROCA	DENAVA	DOBAO
DECERVANTES	DELARROCHA	DENAVARRO	DOBARGANES
DECESPEDES	DELAROSA	DENAVAS	DOBLADO
DECHAVEZ	DELAROZA	DENAVEJAR	DOCAL
DECHOUDENS	DELARRA	DENECOCHEA	DOCAMPO
DECIGA	DELARROYO	DENIEVES	DOCE
DECLLET	DELARUA	DENINA	DOJAQUEZ
DECOLLADO	DELASANTOS	DENOGEAN	DOLATRE
DECOLON	DELASCASAS	DENORIEGA	DOLMO
DECONTRERAS	DELASCUEVAS	DENUNEZ	DOMENA
DECORDOBA	DELASERNA	DEOCA	DOMENECH
DECORDOVA	DELASHERAS	DEOCAMPO	DOMENGUEZ
DECORO	DELASIERRA	DEOCHOA	DOMENO
DECORONA	DELATEJA	DEOLEO	DOMENZAIN
DECORONADO	DELATEJERA	DEOLIVIERA	DOMIGUEZ
DECORSE	DELATOBA	DEOLMO	DOMINCO
DECORTEZ	DELATORRE	DEORO	DOMINGEZ
DECOS	DELATORRES	DEORTA	DOMINGNEZ
DECRISTINO	DELATORRIENTE	DEORTEGA	DOMINGUEZ
DECRUZ	DELATRINIDAD	DEORTIZ	DOMINGUIZ
DECUEVA	DELAUZ	DEOSDADE	DOMINIGUEZ
DECUEVAS	DELAVARA	DEOSORIO	DOMINQUEZ
DEDELGADO	DELAVEGA	DEOTERIS	DOMIO
DEDIAZ	DELAVELLANO	DEOTERO	DOMONDON
DEDIEGO	DELAVICTORIA	DEPABLO	DONADO
DEDIOS	DELAVINA	DEPACHECO	DONATE
DEDOMINGUEZ	DELAYA	DEPACO	DONEIS
DEDUARTE	DELAZERDA	DEPADILLA	DONES
DEESPARZA	DELBARRIO	DEPARRA	DONESTEVEZ
DEESTRADA	DELBLANCO	DEPAZ	DONEZ
DEFALCON	DELBOSQUE	DEPEDRO	DONIAS
DEFALLA	DELBOSQUEZ	DEPENA	DONJUAN
DEFERIA	DELBOZQUE	DEPEREZ	DONLUCAS
DEFERNANDEZ	DELBREY	DEPLATA	DONOSO
DEFEX	DELBUSTO	DEPONCE	DOPAZO
DEFIESTA	DELCADO	DEPORTILLO	DOPICO
DEFIGUEROA	DELCALVO	DEPORTO	DOPORTO
DEFILLO	DELCAMPILLO	DEPORTOLA	DORADO
DEFLORES	DELCAMPO	DEPOZO	DORAME
DEFRESE	DELCASTILLO	DEPRAD	DORANTES
DEFRISCO	DELCASTRO	DEPRADO	DORREGO
DEFUENTES	DELCERRO	DEQUESADA	DORTA
DEGANI	DELCID	DEQUEVEDO	DORTICOS
DEGARAY	DELCOLLADO	DEQUINTANA	DOSAL



DEGARCIA	DELCORRAL	DEQUIROZ	DOSAMANTES
DEGARZA	DELCORRO	DERAMIREZ	DOSELA
DEGELIA	DELCRISTO	DERAMOS	DOVAL
DEGOES	DELCUETO	DERAS	DOVALES
DEGOLLADO	DELCURTO	DERENIA	DOVALINA
DEGOMEZ	DELDAGO	DEREYES	DOVO
DEGONZALES	DELEGANIS	DERIOS	DOZAL
DEGONZALEZ	DELEIJA	DERIVAS	DSPAIN
DEGRACIA	DELEON	DERIVERA	DUARDO
DEGUARA	DELERIO	DERMA	DUARTE
DEGUARDIA	DELERME	DEROBLES	DUARTES
DEGUERRA	DELESCAILLE	DEROCA	DUBON
DEGUERRERO	DELEZA	DERODRIGUEZ	DUCOS
DEGUEVARA	DELFANTE	DERODRIQUEZ	DUEN
DEGUIMERA	DELFIERRO	DEROJAS	DUENAS
DEGUTIERREZ	DELFIN	DEROMERO	DUENES
DEGUZMAN	DELFRANCIA	DEROSARIO	DUENEZ
DEHARO	DELGADA	DEROZA	DUENO
DEHERNANDEZ	DELGADILL	DERRERA	DUENOS
DEHERRERA	DELGADILLO	DERUBIO	DUHAGON
DEHESA	DELGADO	DERUEDA	DUHALDE
DEHOMBRE	DELGADODEORAMAS	DERUISA	DULZAIDES
DEHORTA	DELGIORGIO	DESABOTA	DUMAGUINDIN
DEHOSTOS	DELGODO	DESAENZ	DUMBRIGUE
DEHOYAS	DELHARO	DESALAS	DUME
DEHOYOS	DELHIERRO	DESALAZAR	DUMENG
DEIBARRA	DELHOYO	DESALERNOS	DUMENIGO
DEIDA	DELIGANIS	DESALES	DUQUE
DEIMES	DELIRA	DESALINAS	DURAN
DEIRO	DELISEO	DESANCHEZ	DURANGO
DEISLA	DELIZ	DESANTIAGO	DURANONA
DEITA	DELJUNCO	DESANTIASGO	DURANZA
DEITURRONDO	DELLANO	DESANTOS	DURATE
DEJARA	DELLANO	DESARACHO	DURAZO
DEJAUREGUI	DELMARGO	DESCALZO	DURON
DEJESU	DELMENDO		



**APPENDIX O**

**1980 CENSUS LIST OF SPANISH SURNAMES**

**ECH-EZR**

See Index to Spanish Names

ECHABARNE	ELORREAGA	ESCARDA	ESQUERO
ECHANDI	ELORRIAGA	ESCARENIO	ESQUERRA
ECHANDIA	ELORZA	ESCARENO	ESQUERRE
ECHANIZ	ELOSEGUI	ESCARIZ	ESQUEVEL
ECHARREN	ELOSUA	ESCARPIO	ESQUIBAL
ECHARRI	ELUGARDO	ESCARRA	ESQUIBEL
ECHARTEA	ELVIRA	ESCARRAMAN	ESQUIBIAS
ECHAUARRIA	ELYCIO	ESCARREGA	ESQUIERDO
ECHAURI	EMMANUELLI	ESCARSEGA	ESQUIJAROSA
ECHAVARIA	EMMITE	ESCARSIGA	ESQUIJARROSA
ECHAVARRI	EMPASIS	ESCARTIN	ESQUILIANO
ECHAVARRIA	EMPERADOR	ESCARZAGA	ESQUILIN
ECHAVARRY	EMPLEO	ESCARZEGA	ESQUINCA
ECHAVE	ENAMORADO	ESCASENA	ESQUINEL
ECHAVERIA	ENCALADA	ESCATEL	ESQUIVAL
ECHAVES	ENCALLADO	ESCATELL	ESQUIVEL
ECHAVESTE	ENCARNACION	ESCATIOLA	ESQUIVEZ
ECHAVEZ	ENCERRADO	ESCAURIZA	ESQUIVIAS
ECHAZABAL	ENCHAUTEGUI	ESCOBADO	ESTABA
ECHAZARRETA	ENCHINTON	ESCOBAL	ESTABILLO
ECHEAGARAY	ENCINA	ESCOBALES	ESTADA
ECHEANDIA	ENCINAS	ESCOBAR	ESTADES
ECHEBARRIA	ENCINIA	ESCOBARETE	ESTALA
ECHEGARAY	ENCINIAS	ESCOBEBO	ESTAMPA
ECHEGOYEN	ENCINIOS	ESCOBEDA	ESTANOL
ECHEGUREN	ENCINO	ESCOBEDO	ESTAPE
ECEMENDIA	ENCINOSA	ESCOBER	ESTAVILLA
ECHENIQUE	ENCISCO	ESCOBIDO	ESTAVILLO
ECHERIVEL	ENCISO	ESCOBIO	ESTEBAN
ECHERRI	ENCIZO	ESCOBOSA	ESTEBANE
ECHEVARIA	ENDARA	ESCOBOZA	ESTEBANEZ
ECHEVARRIA	ENDAYA	ESCOCHEA	ESTEBES
ECHEVARRIETA	ENDEMANO	ESCODEDO	ESTEBEZ
ECHEVARRIO	ENDOSO	ESCOJIDO	ESTEFAN
ECHEVERIA	ENGRACIO	ESCOLAR	ESTEFANI
ECHEVERRI	ENGUIDANOS	ESCOMILLA	ESTELA
ECHEVERRIA	ENJADY	ESCONTRIAS	ESTENOZ
ECHEVERRY	ENRIGUEZ	ESCORCIA	ESTEPA
ECHEVESTE	ENRIQUE	ESCORIAZA	ESTEPAN

ECHEZABAL	ENRIQUES	ESCORPISO	ESTERAS
ECHEZARRETA	ENRIQUEZ	ESCORZA	ESTERO
ECHIRIBEL	ENRRIQUEZ	ESCOTA	ESTEUES
ECHIVERRI	ENSENAT	ESCOTO	ESTEVA
ECHIVESTER	EPIDENDIO	ESCOVADO	ESTEVAN
EDERRA	EQUIA	ESCOVAR	ESTEVANE
EDESA	EQUIHUA	ESCOVEDO	ESTEVANES
EDEZA	ERAS	ESCOVER	ESTEVANEZ
EDILLO	ERASO	ESGUERRA	ESTEVES
EDQUIVEL	ERAUSQUIN	ESPADA	ESTEVEZ
EDREIRA	ERAZO	ESPADAS	ESTEVIS
EDROSA	ERCHED	ESPAILLAT	ESTEVIZ
EDROSOLAN	ERCILLA	ESPALIN	ESTIEN
EDROZO	ERCILLO	ESPANA	ESTIMBO
EGANA	ERDOZAIN	ESPANO	ESTOLANO
EGAS	EREBIA	ESPANOL	ESTOLAS
EGEA	EREDIA	ESPANOLA	ESTOPELLAN
EGIPCIACO	ERES	ESPARAZA	ESTOPINAN
EGLESIAS	EREVIA	ESPARRA	ESTOQUE
EGUED	ERIBES	ESPARSA	ESTORGA
EGUES	ERIVES	ESPARSEN	ESTRACA
EGUEZ	ERIVEZ	ESPARZ	ESTRAD
EGUIA	EROLES	ESPARZA	ESTRADA
EGUIGUREN	EROSA	ESPEJEL	ESTRADAS
EGUILUZ	ERREA	ESPEJO	ESTRADE
EGUINO	ERRECA	ESPELETA	ESTRADO
EGUIZABAL	ERRISURIZ	ESPENDEZ	ESTRALLA
EGURE	ERRO	ESPENOSA	ESTRANY
EGURROLA	ERROA	ESPEÑOZA	ESTRELLA
EGUSQUIZA	ESCABAR	ESPERA	ESTRELLAS
EIRAS	ESCABEDO	ESPERANZA	ESTRELLO
EIRIZ	ESCABI	ESPERAS	ESTREMER
ELEBARIO	ESCABIA	ESPERICUETA	ESTREMO
ELEGINO	ESCAJEDA	ESPERIQUETA	ESTRINGEL
ELEJALDE	ESCALA	ESPERO	ESTRONZA
ELEMEN	ESCALADA	ESPERON	ESTUDILLO
ELENA	ESCALANTE	ESPIGUL	ESTUPINAN
ELENES	ESCALENTE	ESPINA	ETCHEBARREN
ELENEZ	ESCALERA	ESPINAL	ETCHEBEHERE
ELEVARIO	ESCALET	ESPINALES	ETCHECHURY
ELEZONDO	ESCALLE	ESPINAR	ETCHEGARAY
ELGARRESTA	ESCALLON	ESPINDOLA	ETCHEPARE
ELGO	ESCALON	ESPINDULA	ETCHEVERRIA
ELGUEA	ESCALONA	ESPINEIRA	ETCHEVERRY
ELGUERA	ESCALONTE	ESPINEL	EUDAVE
ELGUESEBA	ESCAMILLA	ESPINELL	EUFRACIO
ELGUEZABAL	ESCAMILLAS	ESPINET	EULATE
ELICIER	ESCAMILLO	ESPINO	EURESTE

ELISALDA	ESCANAME	ESPINOR	EURESTI
ELISALDE	ESCANDELL	ESPINOSA	EURIOSTE
ELISALDEZ	ESCANDON	ESPINOZ	EUSEBIO
ELISARRARAZ	ESCANES	ESPINOZA	EUSTAQUIO
ELISERIO	ESCANIO	ESPIRICUETA	EUZARRAGA
ELISONDO	ESCANO	ESPIRITI	EVANGEL
ELIXAVIDE	ESCANUELA	ESPIRITU	EVANGELATOS
ELIZADE	ESCANUELAS	ESPITALETA	EVARO
ELIZAGA	ESCAPA	ESPITIA	EUIA
ELIZALDA	ESCAPITA	ESPLANA	EXIGA
ELIZALDE	ESCAPULE	ESPONDA	EXINIA
ELIZALDI	ESCAR	ESPRIU	EXPARZA
ELIZANDO	ESCARCEGA	ESPRONCEDA	EXPOSITO
ELIZANDRO	ESCARCIDA	ESPUDO	EYLICIO
ELIZARDE	ESCARCIGA	ESPURVOA	EYZAGUIRRE
ELIZARDI	ESCRIBA	ESQUEA	EZCURRA
ELIZARDO	ESCRIBANO	ESQUEDA	EZETA
ELIZARRARAS	ESCRICHE	ESQUEDO	EZQUEDA
ELIZARRARAZ	ESCUADRA	ESQUELL	EZQUER
ELIZARRAS	ESCUDE	ESQUENAZI	EZQUERRA
ELIZONDA	ESCUDE	ESQUER	EZQUERRO
ELIZONDO	ESCUETA	ESQUERA	EZRATTY
ELJAU	ESCUJURI	ESQUERDO	EZRRE
ELORDUY	ESCUTIA		

**APPENDIX O**

**1980 CENSUS LIST OF SPANISH SURNAMES**

**FAB-FUS**

See Index to Spanish Names

FABAL	FELUMERO	FIOL	FRAIRE
FABELA	FEMAT	FIQUEROA	FRAMIL
FABELO	FEMATH	FIRA	FRANCA
FABILA	FEMATT	FIRPI	FRANCISCA
FABRA	FENTANES	FIUZA	FRANCO
FABREGAS	FENTE	FLACO	FRANCOS
FABREGAT	FEO	FLAMENCO	FRANGUI
FABROS	FERAMISCO	FLANDES	FRANJUL
FABRYGEL	FERDIN	FLANDEZ	FRANQUERO
FACIO	FEREZ	FLAQUER	FRANQUEZ
FACUNDO	FERIA	FLECHA	FRANQUI
FADRIQUE	FERMANDEZ	FLECHES	FRANQUIZ
FAGET	FERMIN	FLEITAS	FRANSUA
FAGOAGA	FERNADEZ	FLEITES	FRANZOY
FAGUNDO	FERNANDE	FLEMATE	FRAQUA
FAILA	FERNANDEZ	FLETE	FRASES
FAILDE	FERNANDEZCUETO	FLETES	FRASQUILLO
FAJARDO	FERNANDEZDECASTRO	FLOPES	FRATICELLI
FALCHE	FERNANDEZDELARA	FLORATOS	FRAU
FALCON	FERNANDO	FLORENCIA	FRAUSTO
FALERO	FERNENDEZ	FLORENCIO	FRAUSTRO
FALLEJO	FERNIZ	FLORES	FRAXEDAS
FALOMIR	FERNIZA	FLORESDELGADO	FRAYO
FALQUEZ	FERRADAS	FLOREZ	FRAYRE
FALTO	FERRADAZ	FLORIDO	FREDELUCES
FALU	FERRAEZ	FLORIT	FREGOSA
FAMANIA	FERRAIZ	FLORITA	FREGOSO
FAMILIA	FERRALES	FLUXA	FREGOZO
FANDINO	FERRALEZ	FOJO	FREIJO
FANEGO	FERRANDES	FOLGAR	FREIRE
FANGON	FERRANDIZ	FOLGUEIRA	FREIRIA
FANGONILO	FERRAS	FOLGUEIRAS	FREIXAS
FANJUL	FERRE	FONALLEDAS	FRENES
FARACH	FERREGUR	FONCERRADA	FRES
FARAGOZA	FERREIRAS	FONNEGRA	FRESCAS
FARFAN	FERREIRO	FONSECA	FRESCAZ
FARGA	FERRER	FONT	FRESNEDA
FARGAS	FERRERAS	FONTAN	FRESNEDO
FARIAS	FERRERIS	FONTANES	FRESNILLO

FARILLAS	FERREYRA	FONTANET	FRESNO
FARINAS	FERREYRO	FONTANEY	FRESQUES
FARINOS	FERREZ	FONTANEZ	FRESQUEZ
FARIOS	FERRUA	FONTANILLS	FREYRE
FARPELLA	FERRUSCA	FONTANOZA	FREYTA
FARRALES	FESTEJO	FORTEBOA	FREYTES
FARRAY	FEYJOO	FORTECHA	FRIAS
FARRERA	FIALLO	FORTELA	FRIAZ
FARRIAS	FIALLOS	FONTENO	FRIETZE
FARROS	FIDEL	FONTICIELLA	FRIGOLA
FARRULLA	FIEROVA	FONTICOPA	FRISAN
FAS	FIERRO	FORCELLEDO	FROMETA
FAUDOA	FIERROS	FORCEN	FRONDARINA
FAUELA	FIERROZ	FORDIS	FRONTADO
FAUNI	FIESTAL	FORERO	FRONTELLA
FAURA	FIGAL	FORMANO	FRONTERAS
FAURIA	FIGAREDO	FORMENT	FROSTO
FAUSTINOS	FIGARELLA	FORMEZA	FRUGIA
FAUSTO	FIGAROLA	FORNARIS	FRUTOS
FAVELA	FIGEROA	FORNASERO	FRUTOZ
FAVELLA	FIGIROVA	FORNOS	FUENMAYOR
FAVELO	FIGOROA	FORNS	FUENTAS
FAVILA	FIGUEIRAS	FORTANEL	FUENTE
FAYA	FIGUERA	FORTEZ	FUENTECILLA
FAZ	FIGUERAS	FORTEZA	FUENTEFRIA
FEAL	FIGUERDA	FORTIZ	FUENTES
FEBLES	FIGUEREDO	FORTUNO	FUENTEZ
FEBRE	FIGUERO	FOYO	FUENZALIDA
FEBRES	FIGUERIA	FRACISCO	FUERO
FEIGA	FIGUERO	FRADEJAS	FUERTE
FEIJOO	FIGUEROA	FRADERA	FUERTEZ
FEITO	FIGUEROLA	FRAGA	FUEYO
FELAN	FIGUERON	FRAGINALS	FULGENCIO
FELANDO	FIGUERORA	FRAGO	FULGUEIRA
FELIBERTY	FIGUEROSA	FRAGOMENO	FUMERO
FELICANO	FIGUERRA	FRAGOSA	FUNCIA
FELICIANO	FIGUROA	FRAGOSO	FUNDORA
FELICITAS	FIGVEROA	FRAGOZO	FUNES
FELICO	FILGUEIRAS	FRAGUA	FUNEZ
FELIPE	FILIZOLA	FRAGUADA	FUNO
FELISCIAN	FILLAS	FRAGUAS	FUSANO
FELIU	FILOTEO	FRAGUELA	FUSTE
FELIX	FIMBRES	FRAGUIO	FUSTER
FELIZ	FIMBREZ	FRAIDE	
FELPETO	FINALES	FRAIJO	

**APPENDIX O**

**1980 CENSUS LIST OF SPANISH SURNAMES**

**GAB-GUZ**

See Index to Spanish Names

GABALDEN	GARCIAS	GIRELA	GUADAGNIN
GABALDON	GARCIDUENAS	GIRION	GUADALAJARA
GABANCHO	GARCIGA	GIRO	GUADALUPE
GABASAN	GARCILASO	GIRON	GUADAMUZ
GABELA	GARCILAZO	GIRONA	GUADARAMA
GABILONDO	GARCIO	GIRONELLA	GUADARRAMA
GABINA	GARDEA	GISBERT	GUADERRAMA
GABINO	GARDIA	GISPERT	GUADIAN
GABRILES	GARDUNIO	GIZ	GUADIANA
GABRILLO	GARDUNO	GLORIA	GUADIANO
GACHARNA	GARDUQUE	GOBEA	GUADRON
GACHUPIN	GAREIA	GOCHEZ	GUIDA
GADAL	GARFIAS	GOCHICOA	GUAJACA
GADEA	GARFIO	GODINA	GUAJARDO
GADIA	GARGUENA	GODINES	GUAL
GAETAN	GARI	GODINET	GUALDARRAMA
GAFARE	GARIA	GODINEZ	GUAMAN
GAGO	GARIB	GODOY	GUANA
GAHONA	GARIBALDO	GOENA	GUANAJUATO
GAINZA	GARIBAY	GOENAGA	GUANCHE
GAITAN	GARIBY	GOICOHEA	GUANGORENA
GAITERO	GARICA	GOICOURIA	GUANILL
GAIVAN	GARIFE	GOICURIA	GUANTE
GAJARDO	GARISPE	GOIRICELAYA	GUANTES
GAJATE	GARITA	GOITIA	GUANTEZ
GALABEAS	GARITE	GOLDEROS	GUAPO
GALACHE	GARIVAY	GOMAR	GUARA
GALAGARZA	GARMENDIA	GOME	GUARACHA
GALAN	GARMENDIZ	GOMEZ	GUARCH
GALARCE	GARMISA	GOMEZDEMOLINA	GUARDADO
GALARRAGA	GARNICA	GOMEZTORRES	GUARDAMONDO
GALARRETA	GARRANDES	GOMEZTREJO	GUADARRAMA
GALARSA	GARRASTAZU	GOMZALEZ	GUADARRAMOS
GALARTE	GARRIDO	GONALEZ	GUARDERAS
GALARZA	GARRIGA	GONAZLEZ	GUARDIAN
GALARZE	GARRIGAS	GONDAR	GUARDIAS
GALAVEZ	GARRIGO	GONDREZ	GUARDIOLA
GALAVIS	GARRIGOS	GONEZ	GUARENO
GALAVIZ	GARRIO	GONGALES	GUARIS

GALAZ	GARROBO	GONGALEZ	GUARJARDO
GALBAN	GARROCHO	GONGORA	GUARNERO
GALCERAN	GARROTE	GONI	GUARNEROS
GALDAMES	GARSA	GONSALE	GUARTUCHE
GALDAMEZ	GARSES	GONSALES	GUAS
GALDEANO	GARTICA	GONSALEZ	GUASCH
GALDOS	GARVISO	GONZABA	GUASH
GALDUROZ	GARZA	GONZAES	GUASP
GALEANA	GARZACANTU	GONZAGUE	GUAYANTE
GALEANO	GARZAGARCIA	GONZAL	GUAYDACAN
GALENDEZ	GARZAGONGORA	GONZALAS	GUDIEL
GALERA	GARZAMARTINEZ	GONZALE	GUDINO
GALERIA	GARZAPENA	GONZALEA	GUEBARA
GALGUERA	GARZARO	GONZALES	GUECHO
GALI	GARZES	GONZALEX	GUEDE
GALIANA	GARZON	GONZALEZ	GUEDEA
GALICIA	GARZONA	GONZALEZDIAZ	GUEDES
GALINANES	GARZORIA	GONZALEZHERNANDEZ	GUEDIN
GALIND	GASCA	GONZALEZLEON	GUEIMUNDE
GALINDA	GASCOT	GONZALEZSOTO	GUEITS
GALINDEZ	GASERO	GONZALO	GUEL
GALINDO	GASIO	GONZALVEZ	GUELBENZU
GALINDRO	GASPARDEALBA	GONZALVO	GUELMES
GALINZOGA	GASPORRA	GONZALZ	GUEMES
GALIZ	GASTELLO	GONZAQUE	GUEMEZ
GALLAGA	GASTELLUM	GONZELEZ	GUERA
GALLAGOS	GASTELO	GONZELL	GUERARA
GALLANES	GASTELUM	GONZLAES	GUERECA
GALLARD	GASU	GONZLAEZ	GUERENA
GALLARDE	GATAN	GONZLES	GUERENO
GALLARDO	GATELL	GONZLEZ	GUEREQUE
GALLARETO	GATICA	GONZOLES	GUERERO
GALLART	GATO	GONZOLEZ	GUERERRO
GALLARZA	GATSEOS	GORBEA	GUERNICA
GALLARZO	GATTORNO	GORDIANY	GUERRA
GALLASTEGUI	GAUBA	GORDILLO	GUERREO
GALLEG	GAUCHAS	GORDILS	GUERRER
GALLEGAS	GAUCIN	GORDO	GUERRERO
GALLEGO	GAUD	GORDOA	GUERRIDO
GALLEGOES	GAUDIER	GORENA	GUERRIOS
GALLEGOS	GAUNA	GOROSAVE	GUERRO
GALLEGOZ	GAUZENS	GOROSTIETA	GUERRRA
GALLEGUS	GAVALDON	GOROSTIZA	GUEVARA
GALLENO	GAVALES	GOROZA	GUEVAREZ
GALLERAN	GAVAY	GORRAIZ	GUEVARRA
GALLERITO	GAVIA	GORRICO	GUEVERA
GALLINAL	GAVICA	GORRINDO	GUEVERRA
GALLINAR	GAVIDIA	GORRITA	GUEZ

GALLOR	GAVILA	GORRITZ	GUIA
GALLOSA	GAVILAN	GORRIZ	GUIBOA
GALMES	GAVILANES	GORTAREZ	GUICHO
GALOFRE	GAVILLA	GORZELA	GUIDERO
GALORZA	GAVILLAN	GOSALVEZ	GUIJARRO
GALVAN	GAVINA	GOTANDA	GUIJOSA
GALVE	GAVINO	GOTAY	GUILARTE
GALVES	GAVIRA	GOTERA	GUILBE
GALVEZ	GAVIRIA	GOTIERREZ	GUILEZ
GAMA	GAVITO	GOTOR	GUILLAMA
GAMALLO	GAXIOLA	GOVANTES	GUILLEMARD
GAMARRA	GAYA	GOVEA	GUILLEN
GAMAZA	GAYARRE	GOVELLA	GUILLENA
GAMAZO	GAYO	GOYANES	GUILLERMETZ
GAMBOA	GAYOL	GOYCO	GUILLERMO
GAMERO	GAYOSO	GOYCOCHEA	GUINA
GAMEROS	GAYOSSO	GOYCOECHEA	GUIRADO
GAMEROZ	GAYTAN	GOYCOOLEA	GUIRALES
GAMEY	GAZCA	GOYENECHÉ	GUIREMAND
GAMEZ	GAZIVODA	GOYOS	GUIROLA
GAMINO	GAZOLAS	GOYTIA	GUISA
GAMIO	GAZTAMBIDE	GOYZUETA	GUISADO
GAMIZ	GAZTELU	GOZMAN	GUISAO
GAMONEDA	GEA	GRACIA	GUISAR
GANADONEGRO	GEADA	GRACIAN	GUITANO
GANAN	GEAGA	GRACIANI	GUITERREZ
GANCEDO	GEBARA	GRACIANO	GUITIAN
GANCERES	GEIGEL	GRACIDA	GUITIERREZ
GANDAR	GELABERT	GRADIAS	GUITRON
GANDARA	GELACIO	GRADILLA	GUITTEREZ
GANDARIA	GELERA	GRADILLAS	GUITTERREZ
GANDARILLA	GELI	GRADISAR	GUITY
GANDARILLAS	GELISTA	GRADO	GUIU
GANDIA	GELY	GRAFALS	GUIVAS
GANDON	GENAO	GRAGEDA	GUIZA
GANDORA	GENDES	GRAIBE	GUIZADO
GANIVET	GENEL	GRAJALES	GUIZAR
GANUELAS	GENER	GRAJEDA	GUJARDO
GANUZA	GENERA	GRAJERA	GULARTE
GANZALEZ	GENESTA	GRAJIOLA	GULBAS
GAONA	GENINO	GRAMAJO	GULDRIS
GARABAY	GENIZ	GRANADA	GULDRIZ
GARABITO	GENOVES	GRANADAS	GULIERREZ
GARACOCHÉA	GERALDES	GRANADINO	GUMA
GARAICOECHEA	GERALDINO	GRANADO	GUNDIN
GARALDE	GERALDO	GRANADOS	GURARO
GARAMENDI	GERARDO	GRANADOZ	GURELL
GARAMILLO	GERENA	GRANAS	GURIDES



GARANA	GEREZ	GRANDA	GUROLA
GARANSUAY	GERMENIS	GRANDEZ	GURRERO
GARANZUAY	GERMES	GRANDIO	GURRIA
GARAT	GERMONO	GRANDOS	GURRIES
GARATE	GEROLAGA	GRANELA	GURROLA
GARATEIX	GERONES	GRANERO	GURRUCHAGA
GARAVITO	GERRO	GRANIELA	GURULE
GARAY	GERUSA	GRANILLO	GURVLE
GARAYALDE	GHIGLIOTTY	GRANIS	GURZI
GARAYGORDOBIL	GIJON	GRANIZO	GUSMAN
GARAYUA	GIL	GRANJA	GUSME
GARAYZAR	GILAS	GRATACOS	GUSTAMANTE
GARAZA	GILBES	GRAULAU	GUSTAMENTE
GARBANI	GILBUENA	GRAUPERA	GUSTO
GARBAYO	GILDELAMADRID	GRAVERAN	GUTERREZ
GARBISO	GIMENEZ	GRAZA	GUTIERES
GARBIZO	GIMENO	GREIGO	GUTIEREZ
GARCA	GIMINEZ	GRES	GUTIERIEZ
GARCED	GINART	GRIEGO	GUTIERR
GARCEL	GINARTE	GRIHALVA	GUTIERRE
GARCELL	GINDRO	GRIJALBA	GUTIERREA
GARCEO	GINER	GRIJALUA	GUTIERRER
GARCERA	GINET	GRIJALVA	GUTIERRES
GARCERAN	GINEZ	GRILLASCA	GUTIERREZ
GARCES	GINORI	GRILLIAS	GUTIERREZGARCIA
GARCEZ	GINORIO	GRIMALDO	GUTIERREZRIOS
GARCIA	GINORIS	GRISALES	GUTIERRZ
GARCIACARDENAS	GINORY	GROLON	GUTIRREZ
GARCIAGONZALEZ	GIRADO	GRONA	GUTTEREZ
GARCIAGUERRERO	GIRALD	GROSO	GUTTEREZ
GARCIAGUZMAN	GIRALDES	GROVAS	GUTTIEREZ
GARCIALOPEZ	GIRALDEZ	GRUESO	GUTTIERREZ
GARCIAMARTINEZ	GIRALDO	GRULLON	GUZMAN
GARCIAPENA	GIRALT	GRUSMAN	GUZMELI
GARCIARIOS	GIRAU	GUABA	GUZMON
GARCIAS	GIRAUDO	GUADA	

**APPENDIX O**

**1980 CENSUS LIST OF SPANISH SURNAMES**

**HAC-HYS**

See Index to Spanish Names

HACES	HERNANDE	HIGUERA	HORTA
HAEDO	HERNANDEL	HIGUERAS	HOSTAS
HANONO	HERNANDER	HIGUERO	HOSTOS
HARGITA	HERNANDES	HIGUEROS	HOYO
HARISPURU	HERNANDEZ	HIJAR	HOYOS
HARO	HERNANDEZCANTU	HILARIO	HOYUELA
HAROS	HERNANDEZORTIZ	HILERIO	HUACUJA
HARVIER	HERNANDO	HINAJOSA	HUALDE
HAYOS	HERNANDORENA	HINESTROSA	HUAMAN
HECHANOVA	HERNANDZ	HINOJAS	HUANTE
HECHAVARRIA	HERNANEZ	HINOJO	HUANTES
HECHEVARRIA	HERNDEZ	HINOJOS	HUAPE
HEGUY	HERNENDEZ	HINOJOSA	HUARACHA
HELGUERA	HERONEMA	HINOJOSE	HUARTE
HELGUERO	HERRADA	HINOJOSO	HUEDA
HELGUEROS	HERRADOR	HINOJOZA	HUERECA
HENANDEZ	HERRAN	HINOSTRO	HUERENA
HENAO	HERRANZ	HINOSTROSA	HUEREQUE
HENARES	HERRARA	HINOSTROZA	HUERGAS
HENOJOSA	HERRARTE	HINZO	HUERGO
HENRIGUEZ	HERREA	HIPOLITO	HUERTA
HENRIQUEZ	HERREJON	HIRALDO	HUERTAS
HERALDEZ	HERRENA	HIRALES	HUERTAZ
HERANDEZ	HERRER	HIRALEZ	HUERTERO
HERAS	HERRERA	HIRIGOYEN	HUERTO
HERAZ	HERRERAS	HIRTADO	HUERTOS
HERBELLO	HERRERIA	HISQUIERDO	HUESCA
HEREBIA	HERRERIAS	HITA	HUESO
HEREDERO	HERRERO	HOGEDA	HUETE
HEREDIA	HERREROS	HOJAS	HUEZO
HEREIDA	HERRERRA	HOLGIN	HUGUEZ
HERENA	HERROZ	HOLGUIN	HUICI
HERERA	HERVAS	HOLQUIN	HUICOCHEA
HERERRA	HERVELLA	HOMAR	HUIDOR
HERETER	HERVIS	HOMS	HUIPE
HERIA	HEVIA	HONESTO	HUISAR
HERIDIA	HEYSQUIERDO	HONGOLA	HUITRON
HERMANDEZ	HIBARRA	HONORIO	HUIZAR
HERMIDA	HIDALGA	HONRADA	HUMADA

HERMIDAS	HIDALGO	HORABUENA	HUMILDAD
HERMIS	HIDALGOGATO	HORACIO	HURADO
HERMOCILLO	HIDAS	HORCASITAS	HURBINA
HERMOGENO	HIDROGO	HORELICA	HURIEGA
HERMOSA	HIERREZUELO	HORMACHEA	HURON
HERMOSILLO	HIERRO	HORMAZA	HURRIEGA
HERMOSO	HIGADERA	HORMAZABAL	HURTADA
HERNADEZ	HIGAREDA	HORMILLA	HURTADO
HERNAEZ	HIGARES	HORNEDO	HURTARTE
HERNAIZ	HIGNOJOS	HORRUITINER	HYSQUIERDO
HERNAND	HIGNOJOZ		

APPENDIX O

1980 CENSUS LIST OF SPANISH SURNAMES

IAN-JUV

See Index to Spanish Names

IANEZ	INSULAR	ITURRIOZ	JIMAREZ
IANOS	INSUNZA	IVANEZ	JIMEMEZ
IBANES	INSURRIAGA	IVARRA	JIMENA
IBANEZ	INTERIAN	IXTA	JIMENE
IBAR	INTRIAGO	IZA	JIMENES
IBARBO	INURRIGARRO	IZABAL	JIMENEZ
IBARGUENGOITIA	INZUNZA	IZAGUIRRE	JIMENIZ
IBARLUCEA	IPARRAGUIRRE	IZAQUIRRE	JIMENO
IBARRA	IPINA	IZAR	JIMENZ
IBARRIA	IQUINA	IZNAGA	JIMINEZ
IBARRONDO	IRACHETA	IZQUIERDO	JINETE
IBAVE	IRAGUI	IZURIETA	JINEZ
IBAVEN	IRAHETA		JINZO
IBERRA	IRALA	JACAS	JIRAU
IBERRI	IRAOLA	JACINTO	JIRON
IBINARRIAGA	IRASTORZA	JACOBO	JOFRE
IBOS	IRAZABAL	JACOME	JOJOLA
IBUADO	IRAZOQUI	JACOMINO	JOMARRON
ICAMEN	IRIART	JACOVO	JORAMILLO
ICARDO	IRIARTE	JACQUEZ	JORDANA
ICASIANO	IRIBARREN	JACUINDE	JORGANES
ICAZA	IRIBE	J Aidar	JORGE
ICEDO	IRIGARAY	JAILE	JORNACION
ICHINAGA	IRIGONEGARAY	JAIME	JORQUERA
IDARRAGA	IRIGOYEN	JAIMERENA	JORQUEZ
IDIAQUEZ	IRIMIA	JAIMES	JORRIN
IDIGORAS	IRINEO	JAIMEZ	JOVE

IDOY	IRIONDO	JAIRALA	JOVELLANOS
IDROGO	IRIQUI	JALAMO	JOVER
IDROVO	IRISARRI	JALLEO	JOVET
IGARAVIDEZ	IRIYE	JALOMA	JOYA
IGARTUA	IRIZAR	JALOMO	JUACHON
IGLECIAS	IRIZARRI	JALTECO	JUAN
IGLESIA	IRIZARRY	JANER	JUANCHO
IGLESIAS	IRIZARY	JANERO	JUANERO
IGNACIO	IRIZZARY	JAQUEZ	JUANES
IGOA	IRLAS	JAQUIAS	JUANEZ
IGUALADA	IROZ	JARA	JUANEZA
IGUINA	IRRIBARREN	JARABA	JUANICO
ILARRAZA	IRRIZARRI	JARAMILIO	JUANITAS
ILDEFONSO	IRRIZARRY	JARAMILLA	JUANO
ILHARREGUY	IRRIZARY	JARAMILLO	JUARA
ILIZALITURRI	IRROBALI	JARDINES	JUARBE
ILLAN	IRUEGAS	JARDINEZ	JUARDO
ILLANES	IRUNGARAY	JARERO	JUARE
ILLAS	IRURETAGOYENA	JARMILLO	JUAREGUI
ILLERA	IRVEGAS	JAROMILLO	JUARES
ILLESCAS	ISAGUIRRE	JARQUEZ	JUAREZ
IMAS	ISAIS	JARQUIN	JUARISTI
IMAZ	ISAIZ	JARRIN	JUARRERO
INCHAURREGUI	ISALES	JARRO	JUARROS
INCHAUSTEGUI	ISARRARAS	JASO	JUBELA
INCHAUSTI	ISAS	JASSO	JUELLE
INCLAN	ISASSI	JATIVA	JUEZ
INDART	ISERN	JAUMA	JUFIAR
INESTA	ISIAS	JAUME	JULBE
INESTROZA	ISIDRON	JAUNARENA	JULIA
INEZ	ISLA	JAUNES	JUNCADELLA
INFANTE	ISLAS	JAURE	JUNCAL
INFANTES	ISLAVA	JAUREGUI	JUNCO
INFANZON	ISONA	JAUREGUIBERRY	JUNCOSA
INFIESTA	ISORDIA	JAUREGUY	JUNEZ
INGELMO	ISQUIERDO	JAURENA	JUNGUERA
INGRANDE	ISUNZA	JAUREQUI	JUNQUERA
INGUANZO	ITHIER	JAUREZ	JURADO
INGUITO	ITUARTE	JAURGUI	JURAEZ
INIGO	ITULE	JAURIGI	JURAHUI
INIGUES	ITURBE	JAURIGUE	JURDI
INIGUEZ	ITURBI	JAURIGUI	JURE
INIQUEZ	ITURBIDE	JAURIQUE	JURI
INOA	ITURMENDI	JAURIQUI	JURREZ
INOCENCIO	ITURRALDE	JAURQUI	JUSAINO
INOSTROS	ITURRASPE	JAURRIETA	JUSINO
INOSTROSA	ITURREGUI	JAVIER	JUSTINIANI
INOSTROZA	ITURRI	JAVIERRE	JUSTINIANO

INSAUSTI  
INSERTI  
INSIGNARES  
INSUA

ITURRIA  
ITURRIAGA  
ITURRINO

JEMENTE  
JEREZ  
JESUS

JUSTIZ  
JUVER  
JUVERA

**APPENDIX O**

**1980 CENSUS LIST OF SPANISH SURNAMES**

**LAB-LUZ**

See Index to Spanish Names

LABADOR	LARRONDE	LEJARZAR	LLOREDA
LABADY	LARRONDO	LELEVIER	LLORENS
LABANDEIRA	LARROSA	LEMES	LLORENTE
LABARGA	LARROY	LEMUS	LLORET
LABARTA	LARRUA	LEMUZ	LLORIN
LABASTIDA	LARRUBIA	LENERO	LLOSA
LABASTILLA	LARTUNDO	LENTE	LLOVERA
LABIO	LARZABAL	LEODORO	LLOVERAS
LABIOSA	LAPADURA	LEON	LLOVET
LABISTE	LAPARRA	LEONES	LLOVIO
LABOCA	LAPAZ	LEONGUERRERO	LLUBERES
LABORDA	LAPENA	LEONIS	LLUCH
LABORI	LAPICA	LEONOR	LLUIS
LABORICO	LAPIZ	LEOS	LLURIA
LABORIN	LAPUERTA	LEOZ	LLUVERAS
LABOY	LAPUZ	LEPE	LOA
LABRA	LARA	LERA	LOAIZA
LABRADA	LARACUENTA	LERDO	LOARTE
LABRADO	LARACUENTE	LERENA	LOAYZA
LABRADOR	LARALDE	LERET	LOBAINA
LABUZAN	LARAN	LERMA	LOBATO
LACA	LARAS	LERMO	LOBATOS
LACALLE	LARDIZABAL	LERNO	LOBATOZ
LACARRA	LAREDO	LERO	LOBERA
LACASA	LARENA	LESA	LODEIRO
LACASELLA	LARENAS	LESCANO	LODEVICO
LACAYO	LARES	LESMES	LODOS
LACEBAL	LAREZ	LESPIER	LODOZA
LACEDONIA	LARIOS	LESPRON	LOERA
LACERA	LARIVA	LETAMENDI	LOEZA
LACHAPPA	LARIZ	LETONA	LOGOLUSO
LACHICA	LARRA	LETRIZ	LOGRONO
LACHICO	LARRACHE	LEURA	LOINAZ
LACOMBA	LARRAGA	LEVALDO	LOIRA
LACOME	LARRAGOITE	LEVARIO	LOJA
LACONCHA	LARRAGOITY	LEYBA	LOJERO
LACRET	LARRAINZAR	LEYBAS	LOJO
LACRUE	LARRALDE	LEYJA	LOMANA
LACRUZ	LARRAMENDI	LEYRA	LOMAYESVA

LACSAMANA	LARRAN	LEYRO	LOMBANA
LADAGA	LARRANAGA	LEYUA	LOMBARDIA
LAFARGA	LARRANGA	LEYVA	LOMBERA
LAFEBRE	LARRASQUITO	LEYVAS	LOMBRANA
LAFFONT	LARRASQUITU	LEZA	LOMBRANO
LAFORTEZA	LARRAURI	LEZAJA	LOMELI
LAFUENTE	LARRAYA	LEZAMA	LOMELIN
LAFUENTES	LARRAZ	LEZANA	LOMELLIN
LAGAR	LARRAZABAL	LEZCANO	LOMELY
LAGARDA	LARRAZOLA	LIANO	LONA
LAGARES	LARRAZOLO	LIANOZ	LONDONO
LAGEYRE	LARREA	LIANZA	LONGORIA
LAGO	LARREGUI	LIBOY	LONGORIO
LAGOA	LARRETA	LIBRAN	LONGOVIA
LAGOMASINO	LARREYNAGA	LIBREROS	LONGUEVAN
LAGRANA	LARRIBA	LICANO	LONVELIN
LAGUER	LARRIBAS	LICEA	LOPATEGUI
LAGUERUELA	LARRINAGA	LICEAGA	LOPE
LAGUILLO	LARRINUA	LICERIO	LOPENA
LAGUNA	LARRIVA	LICON	LOPERA
LAGUNAS	LARRONDE	LICONA	LOPERENA
LAGUNES	LARRONDO	LICOR	LOPETEGUI
LAHOZ	LARROSA	LICUDINE	LOPEZ
LAIJA	LARROY	LIENDO	LOPEZCASTRO
LAIJAS	LARRUA	LIERA	LOPEZMENDOZA
LAILES	LARRUBIA	LIERAS	LOPEZRODRIGUEZ
LAINEZ	LARTUNDO	LIERRA	LOPEZSANCHEZ
LAISECA	LARZABAL	LIEVANO	LOPEZVEGA
LAIZ	LASA	LIEVANOS	LOPOZ
LAJARA	LASAGA	LIGUES	LOQUET
LAJES	LASALDE	LIGUEZ	LORA
LALLAVE	LASANTA	LIMARDO	LORANCA
LALOMA	LASAS	LIMAS	LORCA
LALUEZA	LASAVIO	LIMIA	LOREDO
LALUZ	LASCANO	LIMON	LORENCES
LAMADRID	LASCOR	LIMONES	LORENTE
LAMADRIZ	LASCURAIN	LIMONEZ	LORENZANA
LAMAS	LASERNA	LIMONTA	LORERA
LAMASA	LASES	LIMONTORRES	LORETDEMOLA
LAMATA	LASHERAS	LIMOSNERO	LOREZ
LAMAZARES	LASO	LIMUEL	LORIDO
LAMBARDIA	LASOS	LINAJE	LORIEGA
LAMBAREN	LASSOS	LINAN	LORIGA
LAMBARENA	LASTRA	LINARES	LORIGO
LAMBARIA	LASTRE	LINAREZ	LORONA
LAMBARRI	LASTRES	LINEIRO	LORONO
LAMBOY	LATASA	LINERA	LORTA
LAMEIRA	LATIGO	LINERO	LORZA

LAMELA	LATONI	LINEROS	LOSA
LAMELAS	LATORRES	LIQUET	LOSADA
LAMIGUEIRO	LAUGIER	LIQUEZ	LOSADO
LAMORENA	LAUREAN	LIRA	LOSANA
LAMOSA	LAUREANO	LIRAALVARADO	LOSOYA
LAMOSO	LAUREDO	LIRANZO	LOSTAUNAU
LAMOURT	LAUREIRO	LIRES	LOUATO
LAMOUTTE	LAUREL	LIRIANO	LOUBRIEL
LAMPARELLO	LAURELES	LIRIO	LOURIDO
LAMPEDUSA	LAURIANO	LISALDA	LOUSTAUNAU
LAMPON	LAURIAS	LISALDE	LOVATO
LANAS	LAURIDO	LISAMA	LOVATON
LANCARA	LAUSELL	LISARDO	LOVEIRA
LANCHA	LAUTERIO	LISBOA	LOVERA
LANDA	LAUZARDO	LISCANO	LOVERAS
LANDAVASO	LAUZURIQUE	LISEA	LOVILLE
LANDAVAZO	LAVANDEIRA	LISERA	LOVIO
LANDAVERDE	LAVANDERA	LISERIO	LOYA
LANDAZURI	LAVANDERO	LISOJO	LOYNAZ
LANDEIRA	LAVARS	LIZA	LOYO
LANDERO	LAVASTIDA	LIZALDA	LOYOLA
LANDEROS	LAVAYEN	LIZALDE	LOZA
LANDESTOY	LAVEA	LIZAMA	LOZADA
LANDETA	LAVEAGA	LIZAN	LOZADO
LANDEZ	LAVEGA	LIZANO	LOZANA
LANDIN	LAVENDERA	LIZAOLA	LOZANO
LANDIVAR	LAVERGATA	LIZARAGA	LOZEZ
LANDOL	LAVERNIA	LIZARDE	LOZOLLA
LANDRAU	LAVIADA	LIZARDI	LOZOYA
LANDRIAN	LAVILLA	LIZARDO	LUA
LANDRON	LAVIOS	LIZARRAGA	LUACES
LANET	LAVORICO	LIZARRAGO	LUAN
LANFRANCO	LAVORIN	LIZARRALDE	LUAS
LANGARA	LAYANA	LIZARRARAS	LUBE
LANGARCIA	LAYNA	LIZARZABURU	LUBERTA
LANGARICA	LAZA	LIZASO	LUBIAN
LANTIGUA	LAZAGA	LIZASUAIN	LUCARIO
LANUEZ	LAZALA	LIZCANO	LUCATERO
LANUZA	LAZALDE	LLABRES	LUCATORTA
LANZISERO	LAZANO	LLACA	LUCENA
LANZOT	LAZARIN	LLACER	LUCER
LAO	LAZARINE	LLADO	LUCERO
LAOS	LAZARO	LLAGOSTERA	LUCIO
LAOSA	LAZARTE	LLAGUNO	LUCO
LAPADURA	LAZCANO	LLAMA	LUCOS
LAPARRA	LAZCOS	LLAMAS	LUCRET
LAPAZ	LAZES	LLAMAZARES	LUEBANO
LAPENA	LAZO	LLAMBES	LUENGAS



LAPICA	LAZODELAVEGA	LLAMEDO	LUENGO
LAPIZ	LAZOS	LLAMES	LUERA
LAPUERTA	LAZRINE	LLAMOSA	LUERAS
LAPUZ	LAZU	LLANA	LUEVANO
LARA	LAZURTEGUI	LLANAS	LUEVANOS
LARACUENTA	LEAL	LLANERA	LUEZA
LARACUENTE	LEANOS	LLANERAS	LUGARDO
LARALDE	LEBARIO	LLANES	LUGARO
LARAN	LEBRIJA	LLANEZ	LUGO
LARAS	LEBRON	LLANIO	LUGON
LARDIZABAL	LECARO	LLANO	LUGONES
LAREDO	LECAROS	LLANOS	LUINA
LARENA	LECEA	LLANTADA	LUIS
LARENAS	LECHON	LLANTIN	LUITIN
LARES	LECHUGA	LLANUSA	LUJAN
LAREZ	LECTORA	LLAPUR	LUJANO
LARIOS	LECUMBERRI	LLARENA	LUJARDO
LARIVA	LECUSAY	LLATA	LUJO
LARIZ	LEDESMA	LLAUGER	LUJON
LARRA	LEDEZMA	LLAURADO	LUMBRERA
LARRACHE	LEDO	LLAURADOR	LUMBRERAS
LARRAGA	LEDON	LLAUSAS	LUNA
LARRAGOITE	LEGARDA	LLAVE	LUNARES
LARRAGOITY	LEGARRA	LLAVERIAS	LUPERCIO
LARRAINZAR	LEGARRETA	LLAVET	LUPEZ
LARRALDE	LEGARRETTA	LLAVONA	LUPIAN
LARRAMENDI	LEGASPE	LLENIN	LUPIANEZ
LARRAN	LEGASPI	LLENZA	LUPIBA
LARRANAGA	LEGORRETA	LLEO	LUPIO
LARRANGA	LEGOZA	LLEONART	LUQUE
LARRASQUITO	LEGRA	LLERA	LUQUEZ
LARRASQUITU	LEGUINA	LLERANDI	LUQUIN
LARRAURI	LEIBA	LLERAS	LUQUIS
LARRAYA	LEIBAS	LLERENA	LURAS
LARRAZ	LEIGON	LLERENAS	LUVIANO
LARRAZABAL	LEIJA	LLEVERINO	LUYANDA
LARRAZOLA	LEIMON	LLIBRE	LUYANDO
LARRAZOLO	LEIRA	LLINAS	LUZA
LARREA	LEIRO	LLITERAS	LUZANIA
LARREGUI	LEISA	LLIZO	LUZANILLA
LARRETA	LEISECA	LLOBERA	LUZANO
LARREYNAGA	LEITA	LLOBET	LUZARDO
LARRIBA	LEITES	LLOMPART	LUZARRAGA
LARRIBAS	LEIVA	LLONA	LUZBET
LARRINAGA	LEIVAS	LLOPIS	LUZUNARIS
LARRINUA	LEIZAN	LLOPIZ	LUZURIAGA
LARRIVA	LEJARZA	LLORCA	

**APPENDIX O**

**1980 CENSUS LIST OF SPANISH SURNAMES**

**MAC-MUZ**

See Index to Spanish Names

MACARAIG	MARGARITO	MENDOZA	MONSIBAIS
MACARDICAN	MARGUEZ	MENDOZO	MONSIBAIZ
MACARENO	MARIANES	MENDRE	MONSISVAIS
MACARON	MARIANS	MENDRIN	MONSIVAIS
MACAVINTA	MARICHAL	MENEDEZ	MONSIVAIZ
MACAYA	MARICHALAR	MENENDEZ	MONTAIVO
MACAYAN	MARIDUENA	MENES	MONTALBAN
MACDONADO	MARIN	MENESES	MONTALBO
MACEDA	MARINAS	MENEZ	MONTALUO
MACEIRA	MARINELARENA	MENJARES	MONTALVAN
MACEN	MARINERO	MENJIVAR	MONTALVO
MACENA	MARINES	MENJUGA	MONTAN
MACEO	MARINEZ	MENOCAL	MONTANE
MACEYRA	MARIONA	MENOSCAL	MONTANER
MACHICHE	MARISCAL	MENOUD	MONTANES
MACHIN	MARISTANY	MENOYO	MONTANEZ
MACHORRO	MARISY	MERA	MONTANIO
MACHUCA	MARITNEZ	MERANCIO	MONTANO
MACIA	MARLANO	MERAS	MONTANTES
MACIAL	MARMOL	MERAZ	MONTAYA
MACIAS	MARMOLEJO	MERCAD	MONTAZ
MACIAZ	MARMOLEJOS	MERCADA	MONTEAGUDO
MACIEL	MARONES	MERCADAL	MONTEALEGRE
MACOTELA	MARQUEZ	MERCADE	MONTEAVARO
MADA	MARQUINA	MERCADER	MONTECELO
MADALA	MARQUIZ	MERCADO	MONTECINO
MADARIAGA	MARRASQUIN	MERCARDO	MONTEDEOCA
MADERA	MARRENO	MERCED	MONTEFALCON
MADERIS	MARRERO	MERCEDES	MONTEJANO
MADERO	MARRIAGA	MERCHAIN	MONTEJO
MADIEDO	MARRIETTA	MERCHAN	MONTELLANO
MADOZ	MARRODAN	MERCODO	MONTELONGO
MADRAZO	MARROGUIN	MERCOLA	MONTEMAJOR
MADRIA	MARROQUIN	MERCONCHINI	MONTEMAYOR
MADRID	MARRORO	MERELES	MONTENEGRO
MADRIGAL	MARROZOS	MERENDON	MONTEON
MADRIGALES	MARRUFFO	MEREZ	MONTERA
MADRIGUAL	MARRUFO	MERGIL	MONTERDE
MADRIL	MARRUGO	MERINO	MONTEREY
MADRILES	MARRUJO	MERIZALDE	MONTERO
MADRILL	MARSACH	MERJIL	MONTEROLA
MADRIZ	MARSALIA	MERLA	MONTEROS
MADRONA	MARSELLOS	MERLOS	MONTERREY
MADRUENO	MARTE	MERMEA	MONTERROSA
MADRUGA	MARTELON	MERMEJO	MONTERROSO
MADUANO	MARTENEZ	MERMELLA	MONTERROZA
MADUELL	MARTES	MERODIO	MONTERRUBIO

MADUENA	MARTEZ	MERONO	MONTES
MADUENO	MARTIARENA	MERU	MONTESDEOCA
MADURO	MARTICORENA	MERUELO	MONTESINO
MAELIA	MARTINDELCAMPO	MESA	MONTESINOS
MAES	MARTINES	MESEGUER	MONTEVERDE
MAESE	MARTINETS	MESIA	MONTEZ
MAESO	MARTINEX	MESIAS	MONTEZUMA
MAESTAS	MARTINEZ	MESILLAS	MONTIEL
MAESTAZ	MARTINEZDECASTRO	MESINAS	MONTIJO
MAESTES	MARTINEZGARCIA	MESONERO	MONTILLA
MAESTOS	MARTINEZGONZALEZ	MESORANA	MONTION
MAESTRE	MARTINEZORTIZ	MESQUIAS	MONTMAYOR
MAESTREY	MARTINEZRODRIGUEZ	MESQUIT	MONTOLLA
MAESTU	MARTINIZ	MESQUITA	MONTONO
MAEVA	MARTIR	MESQUITE	MONTOTO
MAEZ	MARTIRENA	MESQUITI	MONTOVA
MAGALDE	MARTIZ	MESSARRA	MONTOY
MAGALLAN	MARTLARO	MESSEGUER	MONTOYA
MAGALLANES	MARTNEZ	MESTA	MONTOYO
MAGALLANEZ	MARTORELL	MESTAS	MONTUFAR
MAGALLON	MARTOS	MESTAZ	MONTUYA
MAGALONA	MARUFFO	MESTRE	MONZON
MAGANA	MARUFO	MESTRES	MOQUETE
MAGANTE	MARULANDA	MESTRIL	MOQUINO
MAGARINO	MARUNO	MEXIA	MORA
MAGAZ	MARURI	MEXICANO	MORADO
MAGDAEL	MARVEZ	MEZA	MORAGA
MAGDALANO	MARXUACH	MEZQUITA	MORAGO
MAGDALENA	MARZAN	MICAN	MORAGUEZ
MAGDALENO	MARZOA	MICHACA	MORAIDA
MAGDIRILA	MARZOL	MICHELENA	MORAILA
MAGENO	MARZOVILLA	MICHELTORENA	MORAL
MAGLICA	MAS	MIEDES	MORALE
MAGLUTA	MASCARDO	MIELES	MORALEJO
MAGPAYO	MASCARENA	MIELGO	MORALES
MAGPURI	MASCARENAS	MIERA	MORALESGONZALEZ
MAGRINA	MASCARENAS	MIERES	MORALESLOPEZ
MAGSOMBOL	MASCARENO	MIEREZ	MORALESRAMOS
MAGUREGUI	MASCARINAS	MIESES	MORALESTORRES
MAIMES	MASCARRO	MIGNARDOT	MORALEZ
MAIMO	MASCORRO	MIGOYA	MORANDA
MAINEGRA	MASDEO	MIGUEL	MORANTES
MAINERO	MASDEU	MIGUELES	MORATA
MAINEZ	MASEDA	MIGUELEZ	MORATALLA
MAIQUEZ	MASERO	MIGUELIZ	MORATAYA
MAIRENA	MASFERRER	MIGURA	MORATO
MAISONAVE	MASIAS	MIJANGOS	MORAZA
MAISONET	MASIEL	MIJARES	MORCATE

MAISTERRA	MASJUAN	MIJAREZ	MORCIEGO
MAITIA	MASPERO	MIJENES	MORCIGLIO
MAITO	MASPONS	MILA	MORCOS
MAIZ	MASQUIDA	MILANES	MOREDA
MAJALCA	MASSANA	MILANEZ	MOREDO
MAJANO	MASSANET	MILARA	MOREIDA
MAJARUCON	MASSAS	MILERA	MOREIRAS
MAJENO	MASSIATTE	MILIAN	MOREJON
MAJIA	MASTACHE	MILINA	MORELES
MAJUL	MASTRAPA	MILLAN	MORELION
MAJUTA	MASVIDAL	MILLAND	MORELLON
MALABANAN	MATA	MILLANES	MORELO
MALABE	MATAIYA	MILLANEZ	MORELOS
MALABEHAR	MATALLANA	MILLANPONCE	MORENO
MALACARA	MATALOBOS	MILLARES	MORENTIN
MALAGON	MATAMOROS	MILLAYES	MORERA
MALANA	MATANZO	MIMIAGA	MORERO
MALANCHE	MATEAS	MINABE	MORETA
MALANDRIS	MATEO	MINAGA	MOREYRA
MALARIN	MATEOS	MINAGORRI	MORFA
MALAUE	MATEU	MINAMIDE	MORFFI
MALAVE	MATIAS	MINATRE	MORFI
MALAVES	MATIENZO	MINAYA	MORFIN
MALAVET	MATILLA	MINCHACA	MORGA
MALAVEZ	MATOS	MINDIETA	MORGALO
MALBAEZ	MATOSO	MINDIOLA	MORGAS
MALBAS	MATOZA	MINERA	MORHAR
MALDANADO	MATTILLO	MINERO	MORIEL
MALDENADO	MATURANA	MINGUELA	MORILLA
MALDOMADO	MATURINO	MINGURA	MORILLAS
MALDONA	MATUTE	MINIAREZ	MORILLO
MALDONADA	MAULEON	MINICA	MORILLON
MALDONADO	MAUNA	MINITREZ	MORILLOS
MALDONALDO	MAUPOME	MINJARES	MORIONES
MALDONDO	MAURAS	MINJAREZ	MORIYON
MALDONODO	MAUREL	MINOBE	MORLA
MALENDEZ	MAURICIO	MINONDO	MORLES
MALFAVON	MAURIES	MINOSO	MORLET
MALIAROS	MAURIZ	MINSAL	MORLOTE
MALIBRAN	MAUROSA	MIQUEO	MOROCHO
MALICAY	MAUROZA	MIR	MORODO
MALLANO	MAYA	MIRABAL	MOROLES
MALLEA	MAYAGOITIA	MIRABEL	MOROLEZ
MALLOQUE	MAYANS	MIRABENT	MORON
MALLORCA	MAYAS	MIRADA	MORONES
MALONADO	MAYATE	MIRAFLORES	MORONEZ
MALONCON	MAYDON	MIRALES	MOROYOQUI
MALOVE	MAYEN	MIRALLA	MORQUECHO

MALPICA	MAYMI	MIRALLES	MORQUEZ
MALTES	MAYNEZ	MIRAMON	MORRAS
MALTOS	MAYOL	MIRAMONTES	MORRAZ
MALUIA	MAYORA	MIRAMONTEZ	MORRERO
MALVAEZ	MAYORAL	MIRANA	MORRINA
MALVAREZ	MAYORCA	MIRANDA	MORTEO
MALVIDO	MAYORDOMO	MIRANO	MORTERA
MAMARADLO	MAYORGA	MIRASOL	MORUA
MANCEBO	MAYORQUIN	MIRAVAL	MORVA
MANCERA	MAYSONET	MIRAYA	MOSCOSO
MANCERO	MAYTIN	MIRAZ	MOSINO
MANCHA	MAYTORENA	MIRAZO	MOSQUEA
MANCHACA	MAZA	MIRDITA	MOSQUEDA
MANCHAN	MAZARA	MIRELES	MOSQUEDO
MANCHEGO	MAZARIEGO	MIRELEZ	MOSQUERA
MANCIAS	MAZARIEGOS	MIRET	MOTA
MANCILLA	MAZON	MIRILES	MOTAL
MANCILLAS	MAZORRA	MIRO	MOTILLA
MANCINAS	MAZPULE	MIROLLA	MOURE
MANCITO	MAZQUIARAN	MISAS	MOUREN
MANDADO	MAZUCA	MISLA	MOURINO
MANDONADO	MAZUELOS	MISQUEZ	MOURIZ
MANDUGARO	MEASTAS	MIYAR	MOYA
MANDUJAN	MEAVE	MIYARES	MOYADO
MANDUJANO	MECADO	MOCEGA	MOYANO
MANGOME	MECARTEA	MOCETE	MOYEDA
MANGUAL	MECENAS	MOCHO	MOYENO
MANGUIA	MECHOSO	MOCTEZUMA	MOYET
MANICOM	MEDEL	MODERO	MOYRON
MANIQUIS	MEDELES	MODIA	MOZAS
MANITO	MEDELEZ	MODRONO	MOZQUEDA
MANJARES	MEDELLIN	MOGAS	MUCALA
MANJAREZ	MEDERO	MOGOLLON	MUCINO
MANJARRES	MEDEROS	MOGRO	MUDAFORT
MANJARREZ	MEDIANO	MOGUEL	MUELA
MANOSA	MEDIAVILLA	MOHEDANO	MUELAS
MANQUERO	MEDINA	MOIZA	MUENTES
MANQUEROS	MEDINAS	MOJADO	MUGA
MANRESA	MEDINILLA	MOJARRO	MUGARTEGUI
MANRIGUEZ	MEDIO	MOJEDA	MUGERZA
MANRIQUE	MEDIZ	MOJENA	MUGICA
MANRIQUES	MEDOLA	MOJICA	MUGUERCIA
MANRIQUEZ	MEDRAN	MOLANO	MUGUERZA
MANRRIQUE	MEDRANO	MOLDES	MUGUIRO
MANRRIQUEZ	MEGARIZ	MOLDONADO	MUIL
MANSANALES	MEGUI	MOLEDO	MUINA
MANSANALEZ	MEIJA	MOLENA	MUINAS
MANSANARES	MEIRELES	MOLENDEZ	MUINO

MANSANAREZ	MEIZOSO	MOLERA	MUINOS
MANSILLA	MEJA	MOLERES	MUIRRAGUI
MANSILLAS	MEJIA	MOLERIO	MUIS
MANSITO	MEJIAS	MOLGADO	MUJICA
MANSO	MEJICO	MOLINA	MULERO
MANTECA	MEJIDO	MOLINAR	MULET
MANTECON	MEJILLA	MOLINARES	MULGADO
MANTEROLA	MEJILLAS	MOLINARY	MUNA
MANTILLA	MEJORADA	MOLINAS	MUNANA
MANTINEZ	MEJORADO	MOLINER	MUNARRIZ
MANUZ	MELANDEZ	MOLINEROS	MUNDO
MANZANA	MELANO	MOLINET	MUNECAS
MANZANAL	MELCHOR	MOLLEDA	MUNERA
MANZANARES	MELCON	MOLLES	MUNERO
MANZANAREZ	MELECIO	MOLLINDO	MUNET
MANZANEDO	MELENA	MOLLINEDO	MUNETON
MANZANERA	MELENCIANO	MONAGAS	MUNEZ
MANZANERES	MELENDE	MONARCO	MUNGARAY
MANZANERO	MELENDES	MONARES	MUNGARRO
MANZANET	MELENDEZ	MONAREZ	MUNGIA
MANZANILLA	MELENDRES	MONARQUE	MUNGUIA
MANZANO	MELENDREZ	MONARRES	MUNILLA
MANZUR	MELENEDEZ	MONARREZ	MUNIVE
MAPALO	MELENEZ	MONCADA	MUNIVEZ
MAPULA	MELENUDO	MONCADO	MUNIZ
MAQUEDA	MELERO	MONCAYO	MUNNE
MAQUEIRA	MELGAR	MONCEVAIS	MUNOA
MAQUINALEZ	MELGAREJO	MONCEVAIZ	MUNOS
MAQUIVAR	MELGARES	MONCEVIAS	MUNOZ
MARABOTTO	MELGOSA	MONCIBAIS	MUNOZCANO
MARADIAGA	MELGOZA	MONCIBAIZ	MUNQUIA
MARALES	MELIAN	MONCIVAIS	MUNTANER
MARANAN	MELIAS	MONCIVAIZ	MURADAS
MARANON	MELINDEZ	MONCIVALLES	MURADAZ
MARANTE	MELIOTA	MONCLOVA	MURADO
MARANTOS	MELLADO	MONDACA	MURAIDA
MARASCOLA	MELOCOTON	MONDEJAR	MURAIRA
MARATAS	MEMBRENO	MONDELO	MURALLES
MARAVEZ	MEMBRILA	MONDONA	MURANE
MARAVILLA	MENA	MONDOZA	MURATALLA
MARAVILLAS	MENACHE	MONDRAGON	MURAVEZ
MARAVILLO	MENACHO	MONEDA	MURCIA
MARBAN	MENCHACA	MONEDERO	MURCIANO
MARCADIS	MENCHAEA	MONEGRO	MURCIO
MARCANO	MENCHAVEZ	MONEO	MURGA
MARCELENO	MENCHEGO	MONGE	MURGADO
MARCELIN	MENCIA	MONGES	MURGUIA
MARCHA	MENCIO	MONGUIA	MURIAS

MARCHAN	MENCOS	MONITA	MURIEDAS
MARCHANTE	MENDANA	MONJARAS	MURIEL
MARCHANY	MENDAROS	MONJARAZ	MURIENTE
MARCHECO	MENDEOLA	MONJARDIN	MURIETTA
MARCHENA	MENDEZ	MONJE	MURILLO
MARCHIONDO	MENDIA	MONJES	MURO
MARCIAL	MENDIAS	MONLEON	MUROLAS
MARCILLA	MENDIAZ	MONLLOR	MUROS
MARCILLO	MENDIBLES	MONNAR	MUROYA
MARCOR	MENDIBURO	MONOZ	MURRIETA
MARCOS	MENDIBURU	MONRAZ	MURRIETTA
MARDOMINGO	MENDIETA	MONREAL	MURRILLO
MARDUENO	MENDIETTA	MONRIAL	MURSULI
MAREINA	MENDIGUTIA	MONROIG	MURUA
MARENCO	MENDINE	MONROY	MURUAGA
MARENTES	MENDIOLA	MONRREAL	MURUATO
MARENTEZ	MENDIOLEA	MONRRIAL	MUSQUEZ
MAREQUE	MENDIONDO	MONSALVE	MUSQUIZ
MARERO	MENDITA	MONSALVO	MUSTELIER
MARES	MENDIVEL	MONSEBAIS	MUTIO
MARESMA	MENDIVIL	MONSEGUR	MUXART
MAREZ	MENDIZ	MONSERRAT	MUXO
MARFIL	MENDIZABAL	MONSERRATE	MUZAURIETA
MARFILENO	MENDOSA	MONSEVAIS	MUZQUIZ
MARGAILLAN	MENDOZ	MONSEVALLES	



**APPENDIX O**

**1980 CENSUS LIST OF SPANISH SURNAMES**

**NAB-OZU**

See Index to Spanish Names

NABA	NIZ	OLAIZ	ORGANISTA
NABARRETE	NOA	OLALDE	ORGE
NABARRETTE	NOBARA	OLALLA	ORIA
NABAYAN	NOBIDA	OLAQUE	ORIBA
NABETA	NOBOA	OLAQUEZ	ORIBE
NACER	NOBREGAS	OLARTE	ORIGEL
NACHON	NOCAS	OLASCOAGA	ORIGINALES
NACIANCENO	NOCEDA	OLASCUAGA	ORIHUELA
NADAL	NOCEDAL	OLAVARRI	ORIJEL
NAFARRATE	NOCHE	OLAVARRIA	ORIOQUE
NAFARRETE	NOCHERA	OLAVARRIETA	ORISIO
NAGORE	NODAL	OLAVE	ORITIZ
NAJAR	NODAR	OLAYA	ORITZ
NAJARA	NODARSE	OLAYO	ORIVE
NAJARES	NOGALES	OLAZABA	ORIZAGA
NAJARRO	NOGARE	OLAZABAL	ORJALES
NAJERA	NOGUE	OLAZAGASTI	ORJUELA
NALDA	NOGUEDA	OLAZARAN	ORNELAS
NANDIN	NOGUEIRAS	OLBA	ORNELAZ
NANDINO	NOGUELLES	OLBERA	ORNELES
NANEZ	NOGUER	OLBES	OROBIO
NAPOLES	NOGUERA	OLDRATE	OROL
NARANJO	NOGUERAS	OLEA	ORONA
NARAVEZ	NOGUES	OLEAS	ORONoz
NARBAIZ	NOGUEZ	OLETA	OROPESA
NARCHO	NOLASCO	OLGIN	OROPEZA
NARCIA	NOLINE	OLGUIN	OROSA
NAREDO	NOLLA	OLIBARES	OROSCO
NARES	NOMBRANA	OLIBAREZ	OROZ
NAREZ	NOMBRANO	OLIBARRIA	OROZCO
NAREZO	NOPERI	OLIDE	OROZEO
NARINO	NORALES	OLIU	ORPILLA
NARIO	NORALEZ	OLIVA	ORPINEL
NARONJO	NORAT	OLIVAN	ORQUIZ
NARRANJO	NORDA	OLIVAR	ORRACA
NARRO	NORDELLA	OLIVARE	ORRADRE
NARVAES	NORDELO	OLIVARES	ORRANTE
NARVAEZ	NOREIGA	OLIVAREZ	ORRANTIA
NARVAIS	NORENA	OLIVAROS	ORREGO

NARVAIZ	NORERO	OLIVARRI	ORRIOLA
NARVAREZ	NORIA	OLIVARRIA	ORRIOLS
NARVARTE	NORIEGA	OLIVAS	ORSABA
NATAL	NORIEGO	OLIVENCIA	ORSUA
NATERA	NORIZ	OLIVERA	ORTA
NATERAS	NORMANDIA	OLIVERAS	ORTAL
NATIVIDAD	NORONA	OLIVERAZ	ORTAS
NAVA	NORTE	OLIVERES	ORTEG
NAVAIRA	NORZAGARAY	OLIVEREZ	ORTEGA
NAVAJAR	NOVALES	OLIVERO	ORTEGAS
NAVAL	NOVAS	OLIVEROS	ORTEGON
NAVALES	NOVELA	OLIVES	ORTES
NAVALLO	NOVELO	OLIVIAS	ORTEZ
NAVANJO	NOVIEMBRE	OLIVIS	ORTIGAS
NAVAR	NOVIAN	OLIVO	ORTIGOSA
NAVARETE	NOVILLO	OLIVOS	ORTIGOZA
NAVARETTE	NOVO	OLLACA	ORTIVEZ
NAVAREZ	NOVOA	OLLERBIDEZ	ORTIVIZ
NAVARIA	NOYA	OLLERVIDES	ORTIZ
NAVARIJO	NOYAS	OLLERVIDEZ	ORTIZYPINO
NAVARR	NOYOLA	OLLIVARES	ORTOLAZA
NAVARRETE	NUANES	OLLOQUE	ORTUNIO
NAVARETTE	NUANEZ	OLLOQUI	ORTUNO
NAVARRO	NUCHE	OLME	ORTUZAR
NAVAS	NUEVO	OLMEDA	ORUE
NAVEDA	NUEZ	OLMEDO	ORUNA
NAVEDO	NUIN	OLMO	ORVANANOS
NAVEIRA	NUMEZ	OLMOS	ORZA
NAVEIRAS	NUNCIO	OLMOZ	ORZABAL
NAVEJA	NUNEZ	OLONA	ORZO
NAVEJAR	NUNGARAY	OLONIA	OSA
NAVEJAS	NUNO	OLONO	OSANO
NAVERAN	NUNTEZ	OLORTEGUI	OSCOS
NAVIA		OLQUIN	OSCOY
NAVIDAD	OAXACA	OLTIVERO	OSEDA
NAVO	OBALLE	OLVEDA	OSEGUEDA
NAVODA	OBALLES	OLVEDO	OSEGUERA
NAYA	OBANDO	OLVEIRA	OSEJO
NAYARES	OBARRIO	OLVERA	OSELIO
NAZABAL	OBAS	OLVEZ	OSEQUERA
NAZARIO	OBAYA	OMAEHEVARRIA	OSES
NAZCO	OBERA	OMANA	OSETE
NAZUR	OBESO	OMS	OSIO
NEBLINA	OBEZO	ONATE	OSLE
NEBREDA	OBIEDO	ONDARO	OSNAYA
NEBRIDA	OBISPO	ONDARZA	OSO
NECO	OBLEA	ONDOY	OSOLLO
NECOCHEA	OBLEDO	ONDREAS	OSONA

NECOECHEA	OBLIGACION	ONDRIAS	OSORIA
NECUZE	OBRADOR	ONGANIA	OSORIO
NEGRE	OBREGON	ONGAY	OSORNIA
NEGREIRA	OCA	ONOFRE	OSORNIO
NEGRET	OCACIO	ONUZ	OSORNO
NEGRETE	OCADIZ	ONSUREZ	OSPINA
NEGRETTE	OCAMPO	ONTANEDA	OSPIÑO
NEGRIN	OCAMPOS	ONTIBEROZ	OSPITAL
NEGRON	OCANA	ONTIVERAS	OSSA
NEGRONCOLON	OCANAS	ONTIVERO	OSSORGIN
NEGRONI	OCANO	ONTIVEROS	OSSORIO
NEGUERUELA	OCANTO	ONTIVEROZ	OSTEGUIN
NEIRA	OCARANZA	OPIO	OSTIGUIN
NEITO	OCARIZ	OPORTO	OSTIQUIN
NEIVES	OCARIZA	OQUENDO	OSTOLAZA
NEJAR	OCASIO	OQUITA	OSTOS
NERADA	OCEGUEDA	ORABUENA	OSUNA
NEREY	OCEGUERA	ORACION	OTANEZ
NERIA	OCEJO	ORAMA	OTANO
NERIO	OCEQUEDA	ORAMAS	OTAZO
NERIOS	OCHEA	ORANA	OTEGUI
NERIS	OCHINERO	ORANDAY	OTEIZA
NERVAIS	OCHIPA	ORANTE	OTEO
NEVARES	OCHOA	ORANTES	OTERA
NEVAREZ	OCHOS	ORANTEZ	OTERO
NEVARREZ	OCHOTERENA	ORATE	OTHON
NEYRA	OCHOTORENA	ORBAY	OTI
NIALS	OCÓN	ORBEA	OTONDO
NIAVE	ODAMA	ORBEGOZO	OVADIA
NIAVES	ODIO	ORCA	OVALLE
NIAVEZ	ODRIOZOLA	ORCASITAS	OVALLES
NICACIO	OFARRILL	ORDAZ	OVALLEZ
NICASIO	OFERRAL	ORDENANA	OVANDO
NICOT	OGALDEZ	ORDENER	OVARES
NIDEZ	OGANDO	ORDENES	OVIEDA
NIDO	OGARRIO	ORDENEZ	OVIEDO
NIEBLA	OGARRO	ORDIALES	OXIOS
NIEBLAS	OGAS	ORDINARIO	OYACA
NIEGO	OGAZ	ORDONES	OYAGUE
NIELES	OGUENDO	ORDONEZ	OYANGUREN
NIETO	OGUETE	ORDONO	OYARBIDE
NIEVA	OHIGGINS	ORDOQUI	OYARZABAL
NIEVE	OJEDA	ORDORICA	OYARZUN
NIEVES	OJINAGA	ORDOVER	OYAS
NIEVEZ	OJITO	ORDUNA	OYERBIDES
NIEZ	OLABARRIA	ORDUNEZ	OYERVIDES
NIGAGLIONI	OLABARRIETA	ORDUNO	OYERVIDEZ
NIGOS	OLACHEA	OREGEL	OYOLA

NILA	OLAECHEA	OREJEL	OYOQUE
NIN	OLAETA	ORELLANA	OYUELA
NINA	OLAEZ	ORELLANO	OZAETA
NINO	OLAGE	ORENDAIN	OZETA
NIRA	OLAGUE	ORENGO	OZORES
NISPEROS	OLAGUES	ORENSE	OZORIA
NISTAL	OLAGUEZ	ORETEGA	OZORNIA
NIVAL	OLAGUIBEL	ORETGA	OZUNA
NIVAR	OLAIS	ORFILA	OZUNIGA
NIVES			

## APPENDIX O

### 1980 CENSUS LIST OF SPANISH SURNAMES

#### PAB-PUY

See Index to Spanish Names

PABEY	PAREIRA	PERELES	POBAR
PABLICO	PAREJA	PERERA	POBLANO
PABLO	PARELLADA	PERES	POBLETE
PABLOS	PARERA	PEREYDA	POBRE
PABON	PARES	PEREYO	PODILLA
PABROS	PARETS	PEREYRA	POEY
PACHARZINA	PAREYA	PEREZ	POGAN
PACHEC	PAREZ	PEREZA	POLA
PACHECANO	PARGA	PEREZCANO	POLACO
PACHECO	PARGAS	PEREZCHICA	POLANCO
PACHELO	PARIZ	PEREZCOLON	POLENDO
PACHEO	PAROCUA	PEREZDEALEJO	POLIDURA
PACHERO	PARQUE	PEREZDELRIO	POLINA
PACHICANO	PARRA	PEREZDIAZ	POLITRON
PACHO	PARRADO	PEREZGONZALEZ	POLLERANA
PACHON	PARRAGA	PEREZJIMENEZ	POLLORENO
PACHUCA	PARRAL	PEREZLOPEZ	POLVADO
PACIAS	PARRALES	PEREZMENDEZ	POMALE
PACIFICAR	PARRAS	PEREZMONTES	POMALES
PACILLAS	PARRAZ	PEREZRAMOS	POMARES
PACIN	PARRENO	PERFECTO	POMAREZ
PACINA	PARRIERA	PERFINO	POMBROL
PACO	PARRILLA	PERICAS	POMELEO
PADDILLA	PARRONDO	PERLAS	POMPA
PADER	PARTAGAS	PERMUJ	PONCABARE
PADIA	PARTIDA	PERNAS	PONCE
PADIAL	PARTIDO	PEROLDO	PONCEDELEON
PADIAS	PASADA	PEROZO	PONCHO

PADIERNA	PASAMONTE	PERRES	PONCIANO
PADILL	PASANTES	PERRIRAZ	PONCIO
PADILLA	PASARELL	PERTIERRA	PONSDOMENECH
PADILLIA	PASARET	PERU	PONZOA
PADILLO	PASARIN	PERUMEAN	PORATA
PADIN	PASCACIO	PERUSINA	PORCAYO
PADOR	PASCUAL	PERUSQUIA	PORCHAS
PADRES	PASCUALI	PERUYERA	PORCHO
PADRINO	PASENA	PERUYERO	PORDIA
PADRO	PASILLAS	PERVEZ	PORFIL
PADRON	PASOLS	PERYATEL	PORLAS
PADUA	PASOS	PESANTE	PORRAS
PAEZ	PASSAPERA	PESANTES	PORRATA
PAGAN	PASTORA	PESANTEZ	PORRAZ
PAGANRIVERA	PASTORIZA	PESCADO	PORRERO
PAGES	PASTRAN	PESCADOR	PORRES
PAGOLA	PASTRANA	PESINA	PORROS
PAGON	PASTRANO	PESQUEDA	PORTAL
PAGUAGA	PATINA	PESQUEIRA	PORTALATIN
PAGUIO	PATINO	PESQUERA	PORTALES
PAHISSA	PATLAN	PESQUIERA	PORTALEZ
PAIACIOS	PATRANELLA	PEYDRO	PORTELA
PAIRADA	PATRON	PEYNADO	PORTELLES
PAIRIS	PAUDA	PEYRO	PORTES
PAIZ	PAULA	PEZA	PORTIELES
PAJARITO	PAULLADA	PEZEZ	PORTILLA
PAJARO	PAVEDES	PEZINA	PORTILLO
PAJUELO	PAVILA	PIARD	PORTILLOS
PALACIES	PAVON	PICALLO	PORTOCARRERO
PALACIO	PAYAN	PICAR	PORTOLAN
PALACIOS	PAYANO	PICART	PORTORREAL
PALADINES	PAYARES	PICASCIA	PORTUGAL
PALAFOS	PAYAS	PICASO	PORTUGUES
PALAFOX	PAYEN	PICAZO	PORTUGUEZ
PALAGANAS	PAYERO	PICENO	PORTUONDO
PALAMO	PAZ	PICHARDO	POSADA
PALASOTA	PAZMINO	PICO	POSADAS
PALATO	PAZOS	PICON	POSAS
PALAU	PECARO	PICOS	POSO
PALAZON	PECELUNAS	PIEDAD	POSOS
PALAZUELOS	PECERO	PIEDRA	POSTIGO
PALENCIA	PECHERO	PIEDRAHITA	POSTIL
PALENZUELA	PECINA	PIEDRAS	POTESTAD
PALEO	PECOS	PIELAGO	POUGES
PALGON	PEDEVILLA	PIERAS	POUSA
PALICIO	PEDRAJA	PIJUAN	POVEDA
PALITOS	PEDRAS	PILA	POVENTUD
PALIZO	PEDRAYES	PILAR	POVIONES

PALLAIS	PEDRAZ	PILARTE	POYORENA
PALLAN	PEDRAZA	PILLADO	POZA
PALLANES	PEDRE	PILOTO	POZAS
PALLANEZ	PEDREGAL	PIMIENTA	POZERO
PALLARES	PEDREGO	PIMIENTO	POZO
PALLAREZ	PEDREGON	PIMINTEL	POZOS
PALLEJA	PEDREGUERA	PINA	POZUELOS
PALLENS	PEDREIRA	PINADEARCOS	PRADAS
PALLOT	PEDREIRO	PINAL	PRADERE
PALMARES	PEDRERA	PINALES	PRADIA
PALMAREZ	PEDRERO	PINALEZ	PRADO
PALMARIN	PEDRIANES	PINARES	PRAT
PALMAS	PEDRINO	PINCAY	PRATS
PALMEIRO	PEDROCHE	PINEDA	PRATTS
PALMERIN	PEDROGO	PINEDO	PRECIADO
PALMEROS	PEDROLA	PINEIRA	PRELLEZO
PALOMA	PEDROSA	PINEIRO	PRENDES
PALOMAR	PEDROSO	PINELA	PRENDEZ
PALOMARES	PEDROZA	PINELO	PRENDIZ
PALOMAREZ	PEGO	PINERA	PRESA
PALOMEQUE	PEGODA	PINERO	PRESAS
PALOMERA	PEGUERO	PINEROS	PRESIADO
PALOMIN	PEGUEROS	PINEY	PRESNO
PALOMINO	PEINADO	PINEYRO	PRESTAMO
PALOMINOS	PEIRO	PINGARRON	PREZAS
PALOMO	PELACHE	PINIELLA	PRIDA
PALOP	PELAEZ	PINILLA	PRIEDE
PALOS	PELAIZ	PINILLO	PRIEGO
PALOU	PELALLO	PINILLOS	PRIEGUEZ
PAMANES	PELATA	PINO	PRIETO
PAMARAN	PELAYO	PINOL	PRIMELLES
PAMBLANCO	PELEGRINA	PINON	PRIMERA
PAMIAS	PELLECER	PINONES	PRIMERO
PAMINTUAN	PELLERANO	PINTADO	PRIO
PAMPIN	PELLICIER	PINTOR	PROA
PAMPLONA	PELLOT	PINTOS	PROANO
PANALES	PELUFFO	PINUELA	PROCEL
PANALEZ	PENA	PINUELAS	PROCELA
PANAMA	PENABAD	PINZON	PROCSAL
PANAMENO	PENADO	PIOQUINTO	PROENZA
PANARISO	PENAFIEL	PIQUERO	PROHIAS
PANCEGRAN	PENAFLO	PIREZ	PROO
PANCHANA	PENAFLOIDA	PIRINEA	PROVENCIO
PANCHO	PENAGARZA	PIRIS	PROVEYER
PANCORBO	PENAHERRERA	PIRIZ	PRUDENCIO
PANDAL	PENALBA	PIS	PRUNA
PANDAS	PENALES	PISANA	PRUNEDA
PANDES	PENALO	PISENO	PRUNES

PANDO	PENALOSA	PISONERO	PUBILL
PANDURO	PENALOZA	PITA	PUBILLONES
PANELO	PENALVER	PITALUGA	PUCHADES
PANENO	PENALVERT	PITARCH	PUEBLA
PANEQUE	PENANO	PITONES	PUELLA
PANERO	PENARANDA	PITRONES	PUELLO
PANETO	PENATE	PIZANA	PUENTE
PANIAGUA	PENDAS	PIZANO	PUNTES
PANIAQUA	PENEZ	PIZARO	PUNTEZ
PANIZ	PENICHE	PIZARRA	PUERTA
PANOPIO	PENICHET	PIZARRO	PUERTAS
PANTA	PENILLA	PIZULA	PUERTO
PANTAJA	PENON	PLA	PUERTOS
PANTALEON	PENSADO	PLACENCIA	PUEYO
PANTIGA	PENUELA	PLACENCIO	PUGA
PANTIN	PENUELAS	PLACENSIA	PUGEDA
PANTLEO	PENUELAZ	PLACENTIA	PUIG
PANTOJA	PENUNURI	PLACERES	PUJADAS
PANTOJAS	PEON	PLAJA	PUJAL
PANTOYA	PEPERAS	PLANA	PUJALS
PANTUSA	PEPITO	PLANAS	PUJOL
PANUCO	PEQUENO	PLANCARTE	PUJOLS
PANZARDI	PEQUERO	PLANCENCIA	PULGAR
PANZIERA	PERAL	PLANELL	PULGARIN
PARACHE	PERALES	PLANELLAS	PULIDA
PARADA	PERALEZ	PLANES	PULIDO
PARADEDA	PERALTA	PLANOS	PULOMENA
PARADELA	PERALTO	PLANTILLAS	PUMAR
PARADELO	PERATIS	PLANTO	PUMARADA
PARADES	PERAZA	PLASCENCIA	PUMAREJO
PARADEZ	PERCHES	PLASENCIA	PUMARES
PARAMO	PERCHEZ	PLASENCIO	PUMARIEGA
PARAPAR	PERDICES	PLATA	PUMAROL
PARAYNO	PERDIDO	PLATAMONE	PUNALES
PARAYUELOS	PERDIGON	PLATAS	PUNNARA
PARAZO	PERDOMO	PLATERO	PUNO
PARCES	PEREA	PLAZA	PUNTA
PARDAVE	PEREDA	PLAZAS	PUNTIEL
PARDILLO	PEREDIA	PLAZOLA	PUPO
PARDINAS	PEREDO	PLIEGO	PURA
PARDO	PEREGRINA	PLUMA	PURCELLA
PARDOS	PEREGRINO	PLUMAS	PURISIMA
PARDUCHO	PEREIDA	PLUMEDA	PUYADA
PAREDES	PEREIRO	PLUMEY	PUYOL
PAREDEZ			

**APPENDIX O**

**1980 CENSUS LIST OF SPANISH SURNAMES**

**QUA-RUZ**

See Index to Spanish Names

QUADRENY	RAYAS	RIANDA	RODROGUEZ
QUALIA	RAYGOSA	RIAVE	RODRUGUEZ
QUASADA	RAYGOZA	RIAZA	RODRUQUEZ
QUECLAS	RAYMOS	RIBADENEIRA	RODUGUEZ
QUEIPO	RAYMUNDO	RIBAL	RODULFO
QUEIRO	RAYNA	RIBALTA	RODZ
QUEIRUGA	RAYONEZ	RIBAS	ROEL
QUELLAR	RAYOR	RIBERA	ROGANS
QUEMADA	RAYOS	RIBERAL	ROGERIO
QUERALT	RAZATOS	RIBERAS	ROGES
QUERDO	RAZO	RIBOT	ROGRIGUEZ
QUERIDO	REALES	RIBOTA	ROGUE
QUERO	REALIVASQUEZ	RICABAL	ROHENA
QUERT	REALME	RICALDE	ROIBAL
QUESADA	REALYVASQUEZ	RICANO	ROIDE
QUESADO	REANO	RICARDEZ	ROIG
QUETEL	REATEGUI	RICARDO	ROIS
QUETGLAS	REAZA	RICART	ROIZ
QUEVEDO	REAZOLA	RICARTE	ROJA
QUEZADA	REBELES	RICHARTE	ROJANO
QUIALA	REBELEZ	RICHIEZ	ROJAS
QUIAN	REBELLON	RICHINA	ROJEL
QUIBUYEN	REBETERANO	RICO	ROJERO
QUICENO	REBOLLAR	RICONDO	ROJES
QUICHOCHO	REBOLLEDO	RIDRIGUEZ	ROJO
QUIDERA	REBOLLO	RIEDO	ROJOS
QUIHUIS	REBOLLOSO	RIEGA	ROLDAN
QUIHUIZ	REBOREDO	RIEGO	ROLDON
QUIJADA	REBOSO	RIEGOS	ROLDOS
QUIJALVO	REBOYRAS	RIERA	ROLON
QUIJANO	REBOZO	RIERAS	ROMAGOSA
QUIJAS	REBUSTILLO	RIESCO	ROMAGUERA
QUILALA	RECALDE	RIESGO	ROMANDIA
QUILANTAN	RE CAREY	RIESTRA	ROMANES
QUILENDERINO	RECARTE	RIGAL	ROMANEZ
QUILES	RECEDES	RIGALES	ROMANILLOS
QUILEZ	RECEDEZ	RIGAU	ROMAY
QUILIMACO	RECHANI	RIGUAL	ROMAYOR
QUIMBAR	RECHANY	RIGUERA	ROMERA



QUIMIRO	RECHY	RIGUERO	ROMERO
QUINAL	RECILLAS	RIJO	ROMEROS
QUINCOCES	RECINOS	RIJOS	ROMEU
QUINDE	RECIO	RIMBLAS	ROMEZ
QUINDNEZ	RECLUSADO	RINAURO	ROMIREZ
QUINENES	RECOVO	RINCHE	ROMIRO
QUINES	RECuset	RINCON	ROMO
QUINI	REDE	RINCONENO	ROMOS
QUINIONES	REDERO	RINCONES	ROMPAL
QUINOA	REDONA	RINGLERO	RON
QUINONE	REDONDO	RIOBO	RONCES
QUINONES	REDRUELLO	RIOCABO	RONDA
QUINONEZ	REFUERZO	RIOFRIO	RONDAN
QUINONOS	REGALADO	RIOJA	RONDERO
QUINORES	REGALDO	RIOJAS	RONDEZ
QUINTAMA	REGALES	RIOJAZ	RONDON
QUINTANA	REGALO	RIOJOS	RONGAVILLA
QUINTANAL	REGALOS	RIOLLANO	RONJE
QUINTANAR	REGATO	RIONDA	RONQUILLO
QUINTANILLA	REGINO	RIOPEDRE	ROQUE
QUINTANS	REGOJO	RIOS	ROQUENI
QUINTARO	REGOS	RIOSECO	ROQUERO
QUINTAS	REGRUTTO	RIOSESPINOZA	ROQUETA
QUINTEIRO	REGUA	RIOSFLORES	ROS
QUINTELA	REGUEIRA	RIOSMARTINEZ	ROSA
QUINTENILLA	REGUEIRO	RIOSPEREZ	ROSABAL
QUINTERA	REGUERA	RIOZ	ROSADA
QUINTERO	REGUERO	RIPALDA	ROSADO
QUINTEROS	REGULES	RIPES	ROSAL
QUINTINO	REGUSA	RIPOL	ROSALES
QUINTONA	REICEN	RIPOLL	ROSALESDELRIO
QUINTONES	REICES	RIPOLLES	ROSALEZ
QUINTONEZ	REIGOSA	RIQUELME	ROSALY
QUINTOS	REINA	RIQUERO	ROSARIA
QUIONES	REINAGA	RISQUET	ROSARIO
QUIRARTE	REINALDO	RISUENO	ROSARIODIAZ
QUIRCH	REINAT	RIUS	ROSARO
QUIRENO	REINERO	RIUSECH	ROSAS
QUIRINDONGO	REINOSA	RIVADA	ROSELI
QUIRINO	REINOSA	RIVADENEIRA	ROSELLO
QUIRO	REINOSO	RIVADENEYRA	ROSELLON
QUIROA	REINUS	RIVADULLA	ROSENDON
QUIROBA	REJAS	RIVALE	ROSENEY
QUIROGA	REJINO	RIVALI	ROSERO
QUIROL	REJO	RIVARES	ROSES
QUIROLA	REJON	RIVAROLA	ROSETE
QUIROS	REL	RIVAS	ROSILES
QUIROZ	RELLES	RIVAZ	ROSILEZ
	RELLEZ		

QUITA	RELUCIO	RIVEIRA	ROSILLO
QUITANIA	REMACHE	RIVEIRO	ROSITAS
QUITOS	REMEDIOS	RIVERA	ROSQUETE
QUITUGUA	REMIGIO	RIVERACOLON	ROSTRO
QUIZ	REMIJIO	RIVERACRUZ	ROTEA
	REMOS	RIVERADIAZ	ROTELA
RABADE	RENDEROS	RIVERALUGO	ROTGER
RABAGO	RENDON	RIVERAPEREZ	ROUCO
RABAJA	RENEDO	RIVERARIVERA	ROURA
RABANO	RENGE	RIVERAS	ROURE
RABASA	RENOBATO	RIVERIA	ROVAYO
RABASSA	RENOVA	RIVERO	ROVERA
RABAZA	RENOVALES	RIVEROL	ROVIRA
RABEIRO	RENOVATO	RIVEROLL	ROVIROSA
RABELL	RENTA	RIVERON	ROXAS
RABELO	RENTAS	RIVEROS	ROYBAL
RABIA	RENTERIA	RIVERRA	ROYBALL
RABIELA	RENTERIAS	RIVIERO	ROYBOL
RABINA	REORDA	RIZO	ROYERO
RABINO	REOYO	ROA	ROYO
RABOS	REPOLLET	ROACHO	ROYOS
RADAVERO	REPREZA	ROANO	ROYVAL
RADILLA	REQUEJO	ROBAINA	ROZADA
RADILLO	REQUENA	ROBALI	ROZALES
RADRIGUEZ	REQUENES	ROBALIN	ROZO
RAEL	REQUENEZ	ROBALINO	RUACHO
RAEZ	REQUENO	ROBAU	RUALES
RAFAEL	REQUIRO	ROBAYNA	RUALO
RAFALIN	RESCHMAN	ROBAYO	RUAN
RAFULS	RESENDEZ	ROBEDA	RUANO
RAICES	RESENDIS	ROBELDO	RUAS
RAIGOSA	RESENDIZ	ROBELO	RUBALACA
RAIGOZA	RESERVA	ROBLAS	RUBALCABA
RAIMUNDEZ	RESINA	ROBLEDA	RUBALCADA
RAIMUNDI	RESMA	ROBLEDO	RUBALCADO
RAISOLA	RESON	ROBLEJO	RUBALCAUA
RAJOY	RESPETO	ROBLERO	RUBALCAVA
RALDIRIS	RESSY	ROBLES	RUBERO
RAMALLO	RESTO	ROBLETO	RUBERTE
RAMARIZ	RESTOY	ROBLEZ	RUBI
RAMAS	RESTREDO	ROBREDO	RUBIA
RAMBES	RESTREPO	ROCA	RUBIALES
RAMBLAS	RESUREZ	ROCAFORT	RUBIANES
RAMBONGA	RETA	ROCAFUERTE	RUBIANO
RAMENTOL	RETAMAL	ROCAMONTES	RUBIDO
RAMEREZ	RETAMALES	ROCAMONTEZ	RUBIELLA
RAMERIZ	RETAMAR	ROCERO	RUBIERA
RAMERO	RETAMOSA	ROCES	RUBILDO

RAMERY	RETAMOZA	ROCHA	RUBINOS
RAMIEREZ	RETANA	ROCHAS	RUBIO
RAMIERZ	RETANO	ROCHES	RUBIOLA
RAMIEZ	RETES	ROCHIN	RUCIO
RAMIL	RETEZ	ROCHOA	RUCOBO
RAMINEZ	RETIZ	ROCIO	RUEDA
RAMIR	RETTA	RODADO	RUEDAFLORES
RAMIRE	RETURETA	RODALLEGAS	RUEDAS
RAMIRES	REVADA	RODARTE	RUELAS
RAMIREZ	REVADO	RODAS	RUELAZ
RAMIRIZ	REVELES	RODEA	RUELOS
RAMIRO	REVELEZ	RODELA	RUEMPEL
RAMIS	REVELLES	RODELAS	RUENES
RAMON	REVERON	RODELO	RUESGA
RAMONEDA	REVILLA	RODENA	RUEZGA
RAMONES	REVILLAS	RODENAS	RUFAT
RAMOS	REVOLLAR	RODERO	RUFFENO
RAMOSGONZALEZ	REVOLLEDO	RODEZ	RUFIN
RAMOSMEDINA	REVOREDO	RODGRIGUEZ	RUGAMA
RAMOSRIVERA	REVUELTA	RODICIO	RUGARCIA
RAMOSRODRIGUEZ	REVUELTAS	RODIGUEZ	RUGERIO
RAMOZ	REXACH	RODIL	RUIBAL
RAMUDO	REY	RODILES	RUIDAS
RAMUZ	REYEROS	RODIQUEZ	RUIDIAZ
RANCANO	REYERS	RODIRGUEZ	RUILOBA
RANDEZ	REYES	RODREGUEZ	RUISANCHEZ
RANERO	REYESPEREZ	RODRGUEZ	RUISECO
RANESES	REYESRODRIGUEZ	RODRIG	RUIZ
RANGEL	REYEZ	RODRIGEUZ	RUIZCALDERON
RANGELL	REYGADAS	RODRIGEZ	RUIZCASTANEDA
RANGELLOPEZ	REYNA	RODRIGIEZ	RUIZDEESPARZA
RANJEL	REYNADO	RODRIGNEZ	RUIZDELVIZO
RANSOLA	REYNAGA	RODRIGOEZ	RUIZE
RAQUENIO	REYNALDO	RODRIGS	RUIZESPARZA
RAQUENO	REYNALDOS	RODRIGU	RUIZZ
RAQUEPO	REYNERO	RODRIGUEA	RUL
RASALES	REYNEROS	RODRIGUERA	RULLAN
RASCOM	REYNOS	RODRIGUEZ	RUMAYOR
RASCON	REYNOSA	RODRIGUEZMARTINEZ	RUMBAUT
RASPALDO	REYNOSO	RODRIGUEZS	RUTIAGA
RASURA	REYNOZA	RODRIGUIEZ	RUTIZ
RATON	REYNOZO	RODRIGUIZ	RUVALCABA
RAUDA	REYO	RODRIGUZ	RUVALCAVA
RAVAGO	REYOS	RODRIQUEZ	RUVIRA
RAVARD	REZA	RODRIQUIZ	RUYBAL
RAVELO	REZENDEZ	RODRIUEZ	RUYBALID
RAVENTOS	RIALI	RODRIUGEZ	RUYBOL
RAXACH	RIANCHO	RODRIZUEZ	RUZ

RAYA

APPENDIX O

1980 CENSUS LIST OF SPANISH SURNAMES

SAA-SWA

See Index to Spanish Names

SAA	SANCHIZ	SECATERO	SIQUEIRO
SAABEDRA	SANCHO	SECO	SIQUEIROS
SAAUEDRA	SANCHOYERTO	SEDA	SIQUEROS
SAAVEDRA	SANCHZ	SEDANO	SIQUIEROS
SABALA	SANCIPRIAN	SEDENO	SIRA
SABALLOS	SANDATE	SEDILLA	SIRET
SABALZA	SANDAVAL	SEDILLIO	SIRIAS
SABANDO	SANDAVOL	SEDILLO	SIRIO
SABATER	SANDEZ	SEDILLOS	SIROS
SABATES	SANDIA	SEGANA	SISNERO
SABEDRA	SANDIEGO	SEGARRA	SISNEROS
SABI	SANDIGO	SEGOBIA	SISNEROZ
SABICER	SANDOBAL	SEGONIA	SISNIEGAS
SABIDO	SANDOMINGO	SEGORIA	SISTOS
SABINES	SANDOUAL	SEGOVIA	SITAL
SABLATURA	SANDOVA	SEGOVIANO	SITJAR
SABOGAL	SANDOVAL	SEGRERA	SIURANO
SABORI	SANDOZ	SEGUERA	SIVA
SABORIDO	SANEMETERIO	SEGUI	SIVERIO
SABORIO	SANETO	SEGUNDO	SIXTO
SABORIT	SANEZ	SEGURA	SIXTOS
SABOYA	SANFELIPE	SEGURE	SOBA
SABRES	SANFELIX	SEGUROLA	SOBALVARRO
SABROSO	SANFELIZ	SEGUY	SOBERAL
SABUGO	SANFIEL	SEIJAS	SOBERANES
SACA	SANFIORENZO	SEIJO	SOBERANEZ
SACARELLO	SANGABRIEL	SEIN	SOBERANIS
SACASAS	SANGRE	SEISDEDOS	SOBERON
SACERIO	SANGUESA	SEJA	SOBRADO
SACOS	SANGUILY	SEJAS	SOBREMONTA
SACRISTAN	SANGUINO	SELAYA	SOBRERO
SADA	SANIN	SELAYANDIA	SOBREVILLA
SADES	SANINOCENCIO	SELEM	SOBRIN
SADULE	SANJENIS	SELESTINO	SOBRINO
SAEDA	SANJORGE	SELGADO	SOCA
SAENS	SANJORJO	SELGAS	SOCARRAS
SAENZ	SANJOSE	SELLES	SOCAS
SAETA	SANJUAN	SELVERA	SOCIAS
SAEZ	SANJURJO	SEMAYA	SOCORRO
SAFADY	SANLUCAS	SEMBERA	SODOY

SAFILLE	SANMARTIN	SEMBRANO	SOEGAARD
SAFONT	SANMIGUEL	SEMEXANT	SOJO
SAGARA	SANMILLAN	SEMEY	SOL
SAGARDIA	SANNICOLAS	SEMIDAY	SOLACHE
SAGARDOY	SANOQUET	SEMIDEI	SOLANILLA
SAGARIBAY	SANORA	SEMIDEY	SOLANO
SAGARNAGA	SANPEDRO	SEMINARIO	SOLARES
SAGARO	SANQUICHE	SEMPERTEGUI	SOLAREZ
SAGARRA	SANROMAN	SEMPRE	SOLARIO
SAGAS	SANSERINO	SENA	SOLARZANO
SAGASTA	SANSORES	SENCION	SOLAUN
SAGASTEGUI	SANTAANA	SENDEJAR	SOLDEVILA
SAGASTUME	SANTAANNA	SENDEJAS	SOLDEVILLA
SAGRADO	SANTACOLOMA	SENDEJO	SOLED
SAGREDO	SANTACRUZ	SENDIS	SOLEDAD
SAGRERO	SANTAELLA	SENDON	SOLENO
SAGUN	SANTAGO	SENDRAL	SOLER
SAHAGUN	SANTALIZ	SENERIZ	SOLERA
SAIJO	SANTALLA	SENJUDO	SOLERO
SAILAS	SANTALO	SENOSIAIN	SOLIS
SAINA	SANTAMARINA	SENQUIZ	SOLISGARZA
SAINEZ	SANTAMATO	SENTENA	SOLIVA
SAINZ	SANTANA	SENTENO	SOLIVAN
SAIS	SANTANDER	SENTMANAT	SOLIZ
SAIZ	SANTANDREU	SEOANE	SOLONO
SAIZA	SANTANO	SEOANES	SOLORIO
SALABARRIA	SANTAPAU	SEPEDA	SOLORSANO
SALABERRIOS	SANTAROSA	SEPIAN	SOLORZA
SALACAN	SANTARRIAGA	SEPTIEN	SOLORZANO
SALADO	SANTEIRO	SEPULBEDA	SOLOZABAL
SALAETS	SANTELICES	SEPULUEDA	SOLSONA
SALAIRES	SANTELISES	SEPULVEDA	SOLTERO
SALAI	SANTELLAN	SEPULVEDO	SOMANO
SALAISES	SANTELLANA	SEPULVIDA	SOMARRIBA
SALAIZ	SANTELLANES	SEQUEIDA	SOMAVIA
SALAMANCA	SANTELLANO	SEQUEIRO	SOMBRA
SALANAS	SANTESTEBAN	SEQUERA	SOMOANO
SALANO	SANTEYAN	SEQUERRA	SOMODEVILLA
SALARS	SANTIAG	SEQURA	SOMOHANO
SALAS	SANTIAGO	SERABALLS	SOMONTE
SALASAR	SANTIANA	SERABIA	SOMOZA
SALAVARIA	SANTIBANES	SERALENA	SONABRIA
SALAVARRIA	SANTIBANEZ	SERANTES	SONCHAR
SALAVARRIETA	SANTIESTEBAN	SERASIO	SONCHEZ
SALAVERRIA	SANTIESTEVEAN	SERAYDAR	SONERA
SALAYA	SANTILLAN	SERBANTES	SONICO
SALAYANDIA	SANTILLANA	SERBANTEZ	SONOQUI
SALAZ	SANTILLANES	SERDA	SONORA

SALAZA	SANTILLANEZ	SERDAS	SOPENA
SALAZAN	SANTILLANO	SERENIL	SOQUI
SALAZAR	SANTILLIAN	SERMENO	SOR
SALBATO	SANTISTEBAN	SERMINO	SORATOS
SALCEDA	SANTISTEVAN	SERNA	SORBA
SALCEDO	SANTISTEVEN	SERNAS	SORDIA
SALCIDA	SANTIVANEZ	SERRACINO	SORDO
SALCIDO	SANTIZO	SERRADELL	SORIA
SALCINES	SANTODOMINGO	SERRADO	SORIANO
SALDAMA	SANTORINIOS	SERRALLES	SORIENO
SALDAMANDO	SANTOS	SERRALTA	SORIO
SALDANA	SANTOSCOY	SERRAND	SORNOSO
SALDANO	SANTOVENA	SERRANIA	SOROA
SALDARRIAGA	SANTOVENIA	SERRANO	SOROLA
SALDATE	SANTOY	SERRANTES	SORONDO
SALDEZ	SANTOYA	SERRAT	SORRANO
SALDIERNA	SANTOYO	SERRATA	SORROCHE
SALDIVAR	SANTURIO	SERRATE	SORTILLON
SALDONA	SANUDO	SERRATO	SORZANO
SALDUA	SANVICENTE	SERRATOS	SOSA
SALEGUI	SANZ	SERRAVILLO	SOSAPAVON
SALGADO	SAPATA	SERRAVO	SOSAYA
SALGADOLUNA	SAPEDA	SERRET	SOSIAS
SALGUEIRO	SAPENA	SERRITOS	SOSTRE
SALGUERA	SAPIEN	SERRONO	SOTA
SALGUERO	SAPIENS	SERROS	SOTELLO
SALHUANA	SAPINOSO	SERTUCHE	SOTELO
SALIAS	SARABIA	SERVANTES	SOTERAS
SALIDO	SARACHAGA	SERVANTEZ	SOTERO
SALINAS	SARACHO	SERVERA	SOTILLO
SALINASGARCIA	SARAGOSA	SERVILLA	SOTO
SALINASRAMIREZ	SARAGOZA	SERVILLO	SOTOLONGO
SALINAZ	SARAGUETA	SERVIN	SOTOMAYER
SALINOS	SARALEGUI	SESANTO	SOTOMAYOR
SALIVA	SARANTE	SESATE	SOTORRIO
SALIVAS	SARATE	SESE	SOTRO
SALIZ	SARAVIA	SESMA	SOTTO
SALIZAR	SARCEDA	SESMAS	SOTTOSANTO
SALLES	SARDANETA	SESTEAGA	SOTURA
SALMERON	SARDINAS	SESTIAGA	SOTUYO
SALMINA	SARDUY	SEVA	SOUCHET
SALMONES	SARELLANO	SEVALLOS	SOUFFRONT
SALORT	SARENANA	SEVILLA	SOURINA
SALOS	SARIA	SEVILLANO	SOVERANEZ
SALSA	SARIEGO	SEVILLO	SOZA
SALSAMEDA	SARINA	SEXTO	SPINDOLA
SALSEDO	SARINANA	SEZATE	SUARE
SALSIDO	SARINAS	SEZUMAGA	SUARES

SALTARES	SARIOL	SIACA	SUAREZ
SALTERO	SARMENTERO	SIADOR	SUASTE
SALTOS	SARMIENTA	SIANEZ	SUASTEGUI
SALUDES	SARMIENTO	SIAZ	SUAVEZ
SALUMBIDES	SARMIENTOFLORES	SIBAJA	SUAZO
SALVACION	SARMIENTOS	SIBERIO	SUBREALDEA
SALVARIA	SAROZA	SIBERON	SUBEDAR
SALVARREY	SARQUIS	SIBRIAN	SUBEGA
SALVAT	SARQUIZ	SICAIROS	SUBELDIA
SALVATIERRA	SARRACINO	SICARDO	SUBES
SALVIDE	SARRAGA	SICRE	SUBIA
SAMADA	SARRARAZ	SIDA	SUBIAS
SAMALA	SARRATEA	SIEDO	SUBIDO
SAMALOT	SARREAL	SIERRA	SUBIRANA
SAMANEGO	SARRIA	SIERRAS	SUBIRIAS
SAMANIEGO	SARRIERA	SIERRO	SUCO
SAMANO	SARTUCHE	SIERZE	SUDARIA
SAMARIO	SARZO	SIFONTE	SUEIRAS
SAMARIPA	SARZOZA	SIFONTES	SUEIRO
SAMARO	SASPE	SIFRE	SUELA
SAMARRIPA	SASTRE	SIFUENTES	SUELTO
SAMARRIPAS	SASTURAIN	SIFUENTEZ	SUENGAS
SAMARRON	SATARAIN	SIFVENTES	SUERA
SAMAYOA	SATARAY	SIGALA	SUEREZ
SAMBADO	SATURNINO	SIGALES	SUERO
SAMBOLIN	SAUCEDA	SIGARAN	SUESCUN
SAMBRANO	SAUCEDO	SIGARROA	SUEYRAS
SAMBUESO	SAUCIDO	SIGUA	SUGRANES
SAMBULA	SAUCILLO	SIGUEIROS	SUINA
SAMILPA	SAUDIA	SIGUENZA	SULAICA
SAMONIEGO	SAUEDRA	SILBAS	SULIVERES
SAMORA	SAULEDA	SILERIO	SULLANO
SAMORANO	SAUMA	SILGERO	SULPACIO
SAMOT	SAUMELL	SILGUERO	SULSONA
SAMPAYAN	SAURA	SILIEZAR	SUMALLA
SAMPAYO	SAUREZ	SILLANO	SUMAYA
SAMPEDRO	SAURI	SILLART	SUMBERA
SAMPERA	SAUSAMEDA	SILLAS	SUMBERAZ
SAMPERIO	SAUSEDA	SILLEN	SUNE
SAMTOS	SAUSEDO	SILLER	SUNER
SAMUDIA	SAUZA	SILLERO	SUNICA
SAMUDIO	SAVALA	SILOS	SUNIGA
SANABIA	SAVALZA	SILOT	SUQUET
SANABRIA	SAVEDRA	SILQUERO	SUREDA
SANAGUSTIN	SAVELLANO	SILVARREY	SURIA
SANAME	SAVINON	SILVAS	SURILLO
SANANDRES	SAVORILLO	SILVERIO	SURINACH
SANBARTOLOME	SAYAGO	SILVESTRE	SURIS



SANBRANO	SAYAVEDRA	SILVESTRY	SURITA
SANCEDO	SAYGIDIA	SILVEYRA	SURO
SANCEN	SEANEZ	SIMENTAL	SUROS
SANCHA	SEARA	SIMENTEL	SUSANA
SANCHE	SEAVELLO	SIMIANO	SUSTACHE
SANCHEN	SEBALLOS	SINTAS	SUSTAETA
SANCHES	SEBEO	SIORDIA	SUSTAITA
SANCHEZ	SECA	SIPRIAN	SUSTAYTA
SANCHEZDETAGLE	SECADA	SIPULA	SUSURAS
SANCHEZPEREZ	SECADES	SIQUEIDO	SWAZO
SANCHIDRIAN			

**APPENDIX O**

**1980 CENSUS LIST OF SPANISH SURNAMES**

**TAB-UZU**

See Index to Spanish Names

TABADA	TEMBRAS	TORROELLA	UBILES
TABALDO	TEMER	TORRON	UBILLA
TABALES	TEMORES	TORROS	UBINA
TABANA	TEMPO	TORRUELLA	UBINAS
TABANICO	TEMPRANA	TORRUELLAS	UCEDA
TABARES	TENA	TORTALITA	UCETA
TABAREZ	TENARIO	TORTES	UCHA
TABBADA	TENAS	TORTILLA	UCHITA
TABERA	TENERIAS	TORUGA	UCHIZONO
TABERAS	TENERIO	TORUNO	UDABE
TABERNERO	TENES	TOSA	UDAETA
TABIO	TENEYUCA	TOSADO	UDAVE
TABIZON	TENEYUQUE	TOSAR	UDERO
TABLADA	TENIENTE	TOSSAS	UFRACIO
TABLADO	TENORIA	TOSTA	UFRET
TABOADA	TENORIO	TOSTADO	UGALDE
TABOAS	TEPERA	TOVA	UGARRIZA
TABORA	TEPEZANO	TOVALIN	UGARTE
TABORDA	TEPOSTE	TOVANCHE	UGARTECHEA
TABRAUE	TEQUIDA	TOVAR	UGUES
TABUENA	TERAN	TOVARES	UJUETA
TABUENCA	TERCERO	TOVAREZ	ULACIA
TABULLO	TERCEROS	TOVIAS	ULATE
TACHIAS	TERCILLA	TOYA	ULIBARI
TACHIQUIN	TERMINEL	TOYENS	ULIBARRI
TACORDA	TERON	TOYMIL	ULIVARRI
TACORONTE	TERRADO	TOYOS	ULLIVARRI
TADEO	TERRASA	TRABA	ULLOA
TAFFOLLA	TERRASAS	TRABAL	ULTRERAS
TAFOLA	TERRASAZ	TRABANCO	UMANA
TAFOLLA	TERRAZA	TRABAZO	UMANZOR
TAFORO	TERRAZAS	TRACONIS	UMARAN
TAFOYA	TERRERO	TRANCOSA	UMPIERRE
TAGABAN	TERREROS	TRANQUADA	UNALE
TAGANAS	TERRIGUEZ	TRAPAGA	UNAMUNO
TAGLE	TERRIQUEZ	TRASLAVINA	UNANUE
TAGUDAR	TERROBA	TRASOBARES	UNATE
TAJES	TERRON	TRASPENA	UNEDA
TALABERA	TERRONES	TRASVINA	UNGO

TALACHE	TERSERO	TRAVAL	UNZALU
TALAMANTE	TERUEL	TRAVASO	UNZUETA
TALAMANTES	TERUSA	TRAVERZO	URAGA
TALAMANTEZ	TERVINO	TRAVIESO	URAINÉ
TALAMAS	TERZADO	TREBIZO	URANDAY
TALAMENTE	TESILLO	TREFILIO	URANGA
TALAMENTES	TEVERE	TREGARO	URANGO
TALAMENTEZ	TEXCAHUA	TREJO	URBAEZ
TALANA	TEXIDOR	TREJOS	URBALEJO
TALANCON	TEYECHEA	TRELLES	URBAY
TALAVERA	TEZCUCANO	TREMILLO	URBIETA
TALLABAS	TEZINO	TRENZADO	URBINA
TALLAVAS	THILLET	TRES	URBINO
TALLEDA	TIA	TRESPALACIOS	URBISTONDO
TALLEDO	TIBALDEO	TRETO	URBIZU
TALLERINO	TIBLJAS	TREVILLA	URCADEZ
TAMAME	TIBON	TREVINA	URCELAY
TAMARES	TIBURCIO	TREVINIO	URCIEL
TAMAREZ	TICO	TREVINO	URDANETA
TAMARGO	TIENDA	TREVISO	URDANIVIA
TAMARIT	TIJERINA	TREVIZO	URDAZ
TAMARIZ	TIJERINO	TREVIZU	URDIALES
TAMAYA	TIJERO	TRIANA	URDIALEZ
TAMAYO	TINAJERO	TRIAS	URENA
TAMBARA	TINAZA	TRIAZ	URENDA
TAMBUNGA	TINEO	TRICOCHE	URENIA
TAMERON	TINERELLA	TRIGO	URENO
TAMEZ	TINOCO	TRIGOS	URESTE
TAMGUMA	TIO	TRIGOURA	URESTI
TANCHEZ	TIRADO	TRIGUERO	URETA
TANCO	TIRADOR	TRIGUEROS	URGELL
TANDA	TIRAN	TRIJILLO	URGELLES
TANFORAN	TIRRE	TRILLA	URGILES
TANGUMA	TIRRES	TRILLANES	URGUIDI
TANON	TIRREZ	TRILLAS	URIA
TANORI	TIRSE	TRILLAYES	URIASTE
TANTAO	TISCARENO	TRILLES	URIAS
TANUZ	TISINO	TRILLO	URIAZ
TAPANES	TISNADO	TRILLOS	URIBARRI
TAPETILLO	TIXIER	TRIMINO	URIBE
TAPIA	TIZNADO	TRINCADO	URIBES
TAPIAS	TIZOL	TRINCHET	URIBURU
TAPICERIA	TOBAL	TRINIDAD	URIEGA
TAPIZ	TOBAR	TRIPIS	URIEGAS
TAPORCO	TOBARES	TRISTAN	URIEL
TARABINO	TOBAS	TRISTE	URieta
TARACENA	TOBILLA	TRIUNFO	URIOLA
TARAFÁ	TOBON	TRIVISO	URIONAGUENA

TARAGON	TOCA	TRIVIZ	URIOSTE
TARAILO	TOFOYA	TRIVIZO	URIOSTEGUI
TARAJANO	TOGAR	TROCHE	URISTA
TARAMASCO	TOGORES	TROCHEZ	URITA
TARANCO	TOIMIL	TROJILLO	URIVE
TARANGO	TOJEIRA	TRONCOSA	URIZ
TARAZON	TOJEIRO	TRONCOSO	URIZA
TARAZONA	TOLANO	TRONCOZA	URIZAR
TARBES	TOLEDANO	TRONCOZO	UROZA
TARGA	TOLEDO	TROYA	URQUIA
TARIN	TOLENTINO	TROZERA	URQUIAGA
TARNAVA	TOLLARDO	TRUCIOS	URQUIDES
TARRAGO	TOLOSA	TRUEBA	URQUIDEZ
TARRANGO	TOLOZA	TRUIJILLO	URQUIDI
TARRATS	TOLSA	TRUILLO	URQUIETA
TARRAU	TOMADA	TRUJANO	URQUIJO
TARRAZA	TOMAYO	TRUJEQUE	URQUILLA
TARRIDE	TOMELLOSO	TRUJILLA	URQUIOLA
TARULA	TOMEU	TRUJILLIO	URQUIZA
TASABIA	TOMINES	TRUJILLO	URQUIZO
TATIS	TOPETE	TRUYOL	URQUIZU
TAVALES	TOPIA	TUALLA	URRA
TAVAR	TOQUERO	TUANDO	URRABAS
TAVAREZ	TORAL	TUASON	URRABAZ
TAVERA	TORALBA	TUAZON	URRABAZO
TAVERAS	TORALES	TUBENS	URRACA
TAVIRA	TORANO	TUBON	URREA
TAVISON	TORANS	TUDELA	URRECHAGA
TAVITAS	TORANZO	TUDON	URREGO
TAVIZON	TORDESILLAS	TUEME	URRETA
TAVORA	TORENO	TUERO	URRIETA
TAYABAS	TORIBIO	TUFARES	URRIZA
TEBA	TORICES	TULIER	URROZ
TEBAQUI	TORIJANO	TUNCHES	URRUCHUA
TEBAR	TORIZ	TUNCHEZ	URRUTIA
TEHAS	TORMES	TUNDIDOR	URSUA
TEIJEIRO	TORMOS	TUNON	URSULO
TEIJIZ	TORNEL	TUR	URTADO
TEIJO	TORNERO	TURBAY	URTASUN
TEISSONNIERE	TORO	TURBE	URTEAGA
TEIXIDOR	TORQUEMADA	TURCIOS	URTEZ
TEJADA	TORRADO	TURIACE	URTIAGA
TEJAS	TORRALBA	TURINCIO	URTUSUASTEGUI
TEJEDA	TORRALBAS	TURIZO	URTUZUASTEGUI
TEJEDAS	TORRALES	TURREY	URUBURU
TEJEDO	TORRALVA	TURRIETA	URUCHURTU
TEJEDOR	TORRANO	TURRIETTA	URUENA
TEJEIRO	TORREBLANCA	TURRUBIARTES	URUETA

TEJERA	TORRECH	TURRUBIATE	URVANEJO
TEJERAS	TORRECILLA	TURRUBIATES	URVINA
TEJERINA	TORRECILLAS	TURULL	URZO
TEJERO	TORREGROSA	TUYA	URZUA
TEJIDOR	TORRELLAS		USALLAN
TEJO	TORRENTERA	UBALDE	USATORRES
TELAS	TORRES	UBALLE	USCANGA
TELAVERA	TORRESCANO	UBALLEZ	USEDA
TELLADO	TORRESDIAZ	UBALS	USON
TELLAECHE	TORRESMARTINEZ	UBANDO	UTRIA
TELLECHEA	TORRESOLA	UBARRI	UTRILLA
TELLERIA	TORRESRODRIGUEZ	UBAY	UTSET
TELLES	TORRESS	UBEDA	UVALLE
TELLEZ	TORREZ	UBIAS	UVALLES
TELLO	TORRICELLA	UBIDES	UVIEDO
TELLOS	TORRIENTE	UBIERA	UZETA
TELON	TORRIJOS	UBIETA	UZUETA
TEMBLADOR	TORRIO		

**APPENDIX O**

**1980 CENSUS LIST OF SPANISH SURNAMES**

**VAC-VUE**

See Index to Spanish Names

VACA	VAZQUETELLES	VICENT	VILLAPONDO
VACIO	VAZQUEZ	VICENTE	VILLAPUDUA
VADELL	VAZQUEZRIVERA	VICENTY	VILLAQUIRAN
VADI	VEALSQUEZ	VICHOT	VILLAR
VADIA	VEAS	VICIEDO	VILLARAN
VADILLO	VECIN	VICINAIZ	VILLARAOS
VADIZ	VECINO	VICIOSO	VILLARAUS
VAELL	VEDARTE	VICTORERO	VILLAREAL
VAELLO	VEDIA	VICTORES	VILLAREJO
VAEZ	VEGA	VICUNA	VILLARES
VAEZA	VEGARA	VIDACA	VILLARICO
VAIO	VEGATORRES	VIDAL	VILLARINO
VAISA	VEGAZO	VIDALES	VILLARINY
VAIZ	VEGERANO	VIDALEZ	VILLARIZA
VAIZA	VEGES	VIDANA	VILLAROEL
VAL	VEGO	VIDANO	VILLARONGA
VALADEZ	VEGOS	VIDAURE	VILLAROS
VALADON	VEGUE	VIDAURI	VILLARRE
VALAGUE	VEGUEZ	VIDAURRAZAGA	VILLARREAL
VALARDE	VEGUILLA	VIDAURRE	VILLARRIAL
VALAREZO	VEIGUELA	VIDAURRETA	VILLARROEL
VALASQUEZ	VEINTIDOS	VIDAURRI	VILLARRUBIA
VALAZQUEZ	VEITIA	VIDAURRY	VILLARRUEL
VALBUENA	VEJAR	VIDENA	VILLARRUZ
VALCARCE	VEJARA	VIDES	VILLARTA
VALCARCEL	VEJARANO	VIDOT	VILLARUBIA
VALCAZAR	VEJIL	VIDRIALES	VILLARUZ
VALDASO	VEJO	VIDRIO	VILLAS
VALDEMAR	VELA	VIDRIOS	VILLASAIZ
VALDENEGRO	VELAARCE	VIDUYA	VILLASANA
VALDEPENA	VELACUELLAR	VIEGO	VILLASANO
VALDERAMA	VELADO	VIEITES	VILLASANTE
VALDERAS	VELADOR	VIEJO	VILLASECA
VALDERAZ	VELAQUEZ	VIELMA	VILLASENOR
VALDEREZ	VELAR	VIELMAN	VILLASIS
VALDERRAIN	VELARDE	VIELMAS	VILLASTRIGO
VALDERRAMA	VELARDES	VIENTOS	VILLASUSO
VALDES	VELARDEZ	VIERA	VILLATE
VALDESPINO	VELASCO	VIERAS	VILLATORO

VALDESRODRIGUEZ	VELASGUEZ	VIESCA	VILLAVA
VALDESUSO	VELASQUES	VIESCAS	VILLAVERDE
VALDEZ	VELASQUEZ	VIETA	VILLAVICENCIO
VALDEZATE	VELASTEGUI	VIETTY	VILLAVISENCIO
VALDILLES	VELAZCO	VIEYRA	VILLAZANA
VALDILLEZ	VELAZGUEZ	VIEZCAS	VILLAZON
VALDIVA	VELAZQUES	VIGIL	VILLEDA
VALDIVIA	VELAZQUEZ	VIGILIA	VILLEGA
VALDIVIESO	VELDERRAIN	VIGNAU	VILLEGAS
VALDIVIEZ	VELENZUELA	VIGO	VILLEGES
VALDIVIEZO	VELES	VIGOA	VILLEGOS
VALDO	VELESQUEZ	VIGON	VILLEJO
VALDONADO	VELEZ	VIGUERA	VILLELA
VALDOVIN	VELEZPEREZ	VIGUERAS	VILLENA
VALDOVINO	VELEZROMAN	VIGUERIA	VILLERREAL
VALDOVINOS	VELILLA	VIGUES	VILLERREAL
VALDRIZ	VELIS	VIJARRO	VILLESKA
VALEA	VELIZ	VIJIL	VILLESKAS
VALEDON	VELLAS	VILA	VILLESKAZ
VALENCIA	VELLIDO	VILABOY	VILLETE
VALENCIANA	VELLON	VILADROSA	VILLEZCAS
VALENCIANO	VELO	VILANO	VILLICANA
VALENEUELA	VELOS	VILANOVA	VILLICANO
VALENQUELA	VELOSO	VILAR	VILLIEGAS
VALENSUELA	VELOZ	VILARCHAO	VILLIS
VALENTIN	VELOZQUEZ	VILARDELL	VILLOCH
VALENZUELA	VELUNZA	VILARINO	VILLODAS
VALENZULA	VELUZ	VILARO	VILLOLDO
VALENZVELA	VENCES	VILAS	VILLORIA
VALERA	VENDRELL	VILASQUEZ	VILLORIN
VALERIOS	VENECIA	VILATO	VILLOORO
VALERO	VENEGAS	VILAUBI	VILLOT
VALESQUEZ	VENERACION	VILCHES	VILLOTA
VALEZ	VENEREO	VILCHEZ	VILORIO
VALGAS	VENEZUELA	VILCHIS	VILTRE
VALHUERDI	VENSOR	VILDOSOLA	VINA
VALIDO	VENTA	VILLA	VINAGERAS
VALIENTE	VENTOSO	VILLABLANCA	VINAIXA
VALIGURA	VENZAL	VILLACAMPA	VINAJA
VALINA	VENZOR	VILLACANA	VINAJERAS
VALINAS	VENZUELA	VILLACARLOS	VINALES
VALINO	VERA	VILLACIS	VINALS
VALLADARES	VERACRUZ	VILLACORTA	VINAS
VALLADAREZ	VERAMENDI	VILLACORTE	VINAT
VALLADO	VERANDAS	VILLACRES	VINCENTY
VALLADOLID	VERAS	VILLACRESES	VINCIONI
VALLARTA	VERASTEGUI	VILLADA	VINDIOLA
VALLDEPERAS	VERASTEQUI	VILLADO	VINEGRA

VALLE	VERASTIGUI	VILLADONIGA	VINENT
VALLECILLA	VERASTIQUE	VILLAERREAL	VINFRIDO
VALLECILLO	VERASTIQUI	VILLAESCUSA	VINGOCHEA
VALLECILLOS	VERAY	VILLAFAN	VINIEGRA
VALLEDOR	VERAZ	VILLAFANA	VINUELA
VALLEGOS	VERAZA	VILLAFANE	VINUELAS
VALLEJA	VERBERA	VILLAFLORES	VINZON
VALLEJO	VERCELES	VILLAFRANCA	VIOLETA
VALLEJOS	VERDAGUER	VILLAFRANCO	VIORATO
VALLELLANES	VERDECANNA	VILLAFUERTE	VIOTA
VALLENS	VERDECIA	VILLAGAS	VIQUEZ
VALLERINO	VERDEGUEZ	VILLAGOMES	VIRADIA
VALLES	VERDEJA	VILLAGOMEZ	VIRAMONTE
VALLEZ	VERDEJO	VILLAGRAMA	VIRAMONTES
VALLIN	VERDERA	VILLAGRAN	VIRAMONTEZ
VALLS	VERDESCA	VILLAGRANA	VIRATA
VALMANA	VERDESE	VILLAHERMOSA	VIRAY
VALMORES	VERDESOTO	VILLALABOS	VIRCHIS
VALQUEZ	VERDIA	VILLALBA	VIRELLA
VALTERZA	VERDOZA	VILLALBAZO	VIRGEN
VALTIER	VERDUGA	VILLALBOS	VIRJAN
VALTIERRA	VERDUGO	VILLALOBAS	VIROLA
VALTIERREZ	VERDUSCO	VILLALOBO	VIRREY
VALVERDE	VERDUZCO	VILLALOBOS	VIRRUETA
VANDO	VERDUZEO	VILLALOBOZ	VIRUEGAS
VANEGAS	VEREA	VILLALOHOS	VIRUET
VANGA	VERELA	VILLALON	VIRUETE
VANUELOS	VEREZ	VILLALONA	VIRUZO
VANZURA	VERGARA	VILLALONGA	VISARRAGA
VAQUE	VERGARO	VILLALONGIN	VISARRIAGAS
VAQUER	VERGEL	VILLALONGO	VISCAINA
VAQUERA	VERGUIZAS	VILLALOVAS	VISCAINO
VAQUERO	VERINO	VILLALOVOS	VISCARRA
VAQUILAR	VERJIL	VILLALOVOZ	VISCASILLAS
VARA	VERNENGO	VILLALPANDO	VISCAYA
VARADA	VERONIN	VILLALTA	VISERTO
VARAJAS	VERQUER	VILLALUA	VISOSO
VARAS	VERTIZ	VILLALUNA	VISPERAS
VARCARCEL	VERVER	VILLALUZ	VISSEPO
VARCOS	VETA	VILLALVA	VISTRO
VARELA	VEVE	VILLALVASO	VITAL
VARELAS	VEYNA	VILLALVAZO	VITAR
VARGAS	VEYTIA	VILLAMAN	VITELA
VARGAZ	VIACAVA	VILLAMAR	VITIER
VARGUEZ	VIACOBO	VILLAMARIN	VIVANCO
VARIA	VIADA	VILLAMAYOR	VIVANCOS
VARONA	VIADAS	VILLAMIA	VIVAR
VARONIN	VIADÉ	VILLAMIL	VIVAS



VAROS	VIADERO	VILLAMOR	VIVERO
VAROZ	VIADES	VILLAN	VIVEROS
VARQUEZ	VIADO	VILLANEDA	VIVES
VASALDUA	VIAGRAN	VILLANES	VIVO
VASALLO	VIALES	VILLANEUVA	VIZCAINO
VASCONES	VIALIZ	VILLANEVA	VIZCARRA
VASCONEZ	VIALPANDO	VILLANEZ	VIZCARRO
VASCOS	VIAMONTE	VILLANNEVA	VIZCARRONDO
VASGUEZ	VIANA	VILLANUEBA	VIZCAYA
VASQUE	VIANES	VILLANUERA	VIZCON
VASQUES	VIAPANDO	VILLANUEVA	VIZOSO
VASQUEZ	VIARREAL	VILLANUEVO	VIZUET
VASSQUEZ	VIARRIAL	VILLANVEVA	VIZUETA
VASTI	VIAYRA	VILLAO	VOLBEDA
VAZGUEZ	VICARIA	VILLAPADIERNA	VOSQUEZ
VAZQUE	VICEDO	VILLAPANDO	VOZQUEZ
VAZQUEL	VICENCIO	VILLAPLANA	VUELTA
VAZQUES	VICENS	VILLAPOL	

**APPENDIX O**

**1980 CENSUS LIST OF SPANISH SURNAMES**

**XIM-ZUZ**

See Index to Spanish Names

XIMENES	YORBA	ZALAZAR	ZAVALA
XIMENEZ	YORDAN	ZALDANA	ZAVALETA
XIMINEZ	YPARRAGUIRRE	ZALDIVAR	ZAVALETTA
XIQUES	YPARREA	ZALDUA	ZAVALLA
XOCHICALE	YPINA	ZALDUMBIDE	ZAVALZA
XUAREZ	YRACEBURU	ZALDUONDO	ZAVAT
	YRACHETA	ZALVIDEA	ZAYAS
YABUT	YRASTORZA	ZAMACONA	ZAYASBAZAN
YANAS	YRIARTE	ZAMAGO	ZAYAZ
YANES	YRIBARREN	ZAMANIEGO	ZAZUETA
YANEZ	YRIBE	ZAMANILLO	ZAZUETTA
YANEZA	YRIGOLLA	ZAMANO	ZEBALLOS
YANIZ	YRIGOLLEN	ZAMAR	ZEDENO
YANOSO	YRIGOYEN	ZAMARIPA	ZEDILLO
YAQUES	YRINEO	ZAMARIPPA	ZEGARRA
YARA	YRIQUE	ZAMARO	ZELADA
YARRITO	YRIQUI	ZAMARRI	ZELAYA
YARRITU	YRISARRI	ZAMARRIPA	ZELEDON
YARTE	YRIZARRY	ZAMARRIPAS	ZEMEN
YBABEN	YROZ	ZAMARRON	ZENDEJAS
YBANEZ	YRUEGAS	ZAMAYOA	ZENGOTITA
YBARA	YRUNGARAY	ZAMAZAL	ZENIZO
YBARBO	YRURETAGOYENA	ZAMBADA	ZENOS
YBARRA	YSAGUIRRE	ZAMBRANA	ZENTELLA
YBARROLA	YSAIS	ZAMBRANO	ZENTENO
YBARRONDO	YSAQUIRRE	ZAMILPA	ZEPADA
YBERA	YSASAGA	ZAMORA	ZEPEDA
YBERRA	YSASI	ZAMORANO	ZEQUEIRA
YCAZA	YSASSI	ZAMORES	ZERDA
YCEDO	YSER	ZAMOREZ	ZERIN
YCIANO	YSERN	ZAMOT	ZERMENO
YDROGO	YSET	ZAMUDIO	ZERPA
YEBARA	YSLA	ZANABRIA	ZERQUERA
YEBRA	YSLAS	ZANDATE	ZERTUCHE
YEDO	YSLAVA	ZANDONA	ZERVIGON
YEDOR	YSQUIERDO	ZANGRONIZ	ZETINA
YEDRA	YTUARTE	ZANUDO	ZETINO
YEPA	YTURBE	ZAPARA	ZEVALLOS
YEPES	YTURRALDE	ZAPATA	ZILBAR

YEPEZ	YTURRI	ZAPATER	ZILLAS
YEPIS	YTURRIA	ZAPATERO	ZOLETA
YEPIZ	YTURRIAGA	ZAPEDA	ZOMORA
YERA	YUBETA	ZAPIAIN	ZOROLA
YERAS	YUCUPICIO	ZAPIEN	ZORRILLA
YERENA	YUDESIS	ZARABOZO	ZOZAYA
YERO	YUDICE	ZARAGOSA	ZUAZNABAR
YESCAS	YUDICO	ZARAGOZ	ZUAZO
YESETA	YULAN	ZARAGOZA	ZUAZUA
YESTE	YULFO	ZARAGOZI	ZUBELDIA
YEVERINO	YURIAR	ZARATE	ZUBIA
YGLECIAS	YUSTE	ZARAZUA	ZUBIATE
YGLESIAS	YVANEZ	ZARCO	ZUBIETA
YGNACIO	YVARRA	ZARCOS	ZUBILLAGA
YGUADO	YZABAL	ZARDENETA	ZUBIRAN
YGUERABIDE	YZAGUIRRE	ZARDENETTA	ZUBIRI
YLARREGUI	YZNAGA	ZARDO	ZUBIRIA
YLIZALITURRI	YZQUIERDO	ZARDON	ZUBIZARRETA
YLLA		ZARDOYA	ZUGASTI
YLLADA	ZABAL	ZAROGOZA	ZULAICA
YLLANES	ZABALA	ZARRAGA	ZULETA
YLLESCAS	ZABALETA	ZARRAGOITIA	ZULOAGA
YNCERA	ZABALLA	ZARRAGOZA	ZULUAGA
YNCLAN	ZABALO	ZARRIA	ZULUETA
YNDA	ZABALZA	ZARUBICA	ZUMARRAGA
YNEGAS	ZACARIAS	ZARZANA	ZUMAYA
YNEGES	ZACUTO	ZARZOSA	ZUNIGA
YNFANTE	ZADRIMA	ZARZOZA	ZUNIZA
YNIGO	ZAERA	ZARZUELA	ZUNO
YNIGUEZ	ZAFEREO	ZASUETA	ZUNZUNEGUI
YNIQUEZ	ZAFRA	ZATARAIN	ZURBANO
YNOA	ZAGALA	ZATARAY	ZURBARAN
YNOCENCIO	ZAGALES	ZATARIAN	ZURITA
YNOSENCIO	ZAGONA	ZATOREN	ZURRICA
YNOSTROSA	ZALACAIN	ZAUALA	ZUVIA
YNOSTROZA	ZALACE	ZAUL	ZUVIETA
YNZUNZA	ZALAMEA	ZAUZA	ZUZUARREGUI
YOGUEZ	ZALAPA		

## Appendix Q: Surgery Codes

**Q1. See ROADS Surgery Codes** *(For Cases Diagnosed Prior to January 1, 2003)*

**Q2. See FORDS Surgery Codes** *(For Cases Diagnosed on or after January 1, 2003)*

### Appendix Q-1 Surgery Codes (For Cases Diagnosed prior to January 1, 2003)

#### Index to Sites

- Oral Cavity
- Parotid & Other Unspecified Glands
- Pharynx
- Esophagus
- Stomach
- Colon
- Rectosigmoid
- Rectum
- Anus
- Liver & Intrahepatic Bile Ducts
- Pancreas
- Larynx
- Lung
- Bones, Joints & Articular Cartilage/ Peripheral Nerves/ Connective & Soft Tissue
- Spleen and Lymph Nodes
- Skin
- Breast
- Cervix Uteri
- Corpus Uteri
- Ovary
- Prostate
- Testis
- Kidney, Renal Pelvis & Ureter
- Bladder
- Brain & Other Parts of Central Nervous System
- Thyroid Gland
- All Other Sites

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#### ORAL CAVITY

**Lip C00.0-C00.9, Base of Tongue C01.9, Other Parts of Tongue C02.0-C09.9,**

**Gum C03.0-C03.9, Floor of Mouth C04.0-C04.9, Palate C05.0-C05.9,**

**SURGICAL APPROACH**

**Codes**

- 0 None; no cancer-directed surgery of primary site
- 1 Endoscopy, NOS
- 2 Not image guided
- 3 Image guided
- 4 Open, NOS
- 5 Not assisted by endoscopy
- 6 Assisted by endoscopy
- 9 Unknown; not stated; death certificate **only**

**SURGERY OF PRIMARY SITE**

**Codes**

- 00 None; no cancer-directed surgery of primary site
- 10 Local tumor destruction, NOS (**without pathology specimen**)
  - 11 Photodynamic therapy (PDT)
 

PDT: Exposing photo-sensitive drugs to specific wave lengths of light in the presence of oxygen causing drug to become cytotoxic.
  - 12 Electrocautery; fulguration (includes use of hot forceps for tumor destruction)
  - 13 Cryosurgery
  - 14 Laser
 

No specimen sent to pathology from this surgical event.

**Procedures in codes 20-27 include, but are not limited to:** Shave; Wedge resection

- 20 Local tumor excision, NOS (**with pathology specimen**)
  - 21 Photodynamic therapy (PDT)
  - 22 Electrocautery

- 23 Cryosurgery
- 24 Laser ablation
- 25 Laser excision
- 26 Polypectomy
- 27 Excisional biopsy

Specimen sent to pathology from this surgical event.

**Procedures in code 30 include, but are not limited to:** Hemiglossectomy;  
Partial glossectomy

- 30 Wide excision, NOS

**Procedures in codes 40-43 include, but are not limited to:** Radical glossectomy

- 40 Radical excision of tumor, NOS
  - 41 Radical excision of tumor **only**
  - 42 Combination of 41 **with** en bloc mandibulectomy (marginal, segmental, hemi , or total)
  - 43 Combination of 41 **with** en bloc maxillectomy (partial, subtotal, total)
- 90 Surgery, NOS
- 99 Unknown if cancer-directed surgery performed; death certificate **only**

#### **SURGICAL MARGINS**

##### **Codes**

- 0 All margins grossly and microscopically negative
- 1 Margins involved, NOS
  - 2 Microscopic involvement
  - 5 Macroscopic involvement
- 7 Margins not documented
- 8 No cancer-directed surgery of primary site
- 9 Unknown whether margins were involved or negative;

death certificate **only**

#### SCOPE OF REGIONAL LYMPH NODE SURGERY

<b>Regional cervical lymph nodes are:</b>
Caudal jugular (deep cervical)
Cranial jugular (deep cervical)
Dorsal cervical (superficial cervical)
Medial jugular (deep cervical)
Occipital
Paratracheal (anterior cervical)
Prelaryngeal (anterior cervical)
Retroauricular (mastoid, posterior auricular)
Submandibular (submaxillary)
Submental
Supraclavicular

#### Codes

- 0 No regional lymph nodes removed
- 1 Regional lymph node(s) removed, NOS
  - 2 Neck dissection, NOS
    - 3 Selective, limited; nodal sampling; "berry picking"
    - 4 Modified/modified radical
    - 5 Radical
- 9 Unknown; not stated; death certificate **only**

**Terminology of neck dissection (Robbins et al. 1991):** A radical neck dissection includes the removal of all ipsilateral cervical lymph node groups, i.e., lymph nodes from levels I through V (submental, submandibular, cranial jugular, medial jugular, caudal jugular, dorsal cervical nodes along the accessory nerve, and supraclavicular), and removal of the spinal accessory nerve, internal jugular vein and sternocleidomastoid muscle. In a modified radical neck dissection the same lymph nodes are removed as in a radical neck dissection; however, one or more non lymphatic structures are preserved. A selective neck dissection preserves one or more lymph node groups routinely removed in radical neck dissection.

#### NUMBER OF REGIONAL LYMPH NODES EXAMINED

#### Codes

- 00 No regional lymph nodes removed
- 01 One regional lymph node removed

- 02 Two regional lymph nodes removed
- ..
- 90 Ninety or more regional lymph nodes removed
- 95 No regional lymph node(s) removed but aspiration of regional lymph node(s) was performed
- 96 Regional lymph node removal documented as a sampling and number of lymph nodes unknown/not stated
- 97 Regional lymph node removal documented as dissection and number of lymph nodes unknown/not stated
- 98 Regional lymph nodes surgically removed but number of lymph nodes unknown/not stated and not documented as sampling or dissection
- 99 Unknown; not stated; death certificate **only**

**SURGERY OF OTHER REGIONAL SITE(S), DISTANT SITE(S) OR DISTANT LYMPH NODE(S)**

**Codes**

- 0 None; no surgery to other regional or distant sites
- 1 Surgery to other site(s) or node(s), NOS; unknown if regional or distant
  - 2 Other regional site(s)
    - 3 Mandibulectomy (marginal, segmental, hemi , or total)
    - 4 Maxillectomy (partial, subtotal, or total)
- 5 Distant lymph node(s)
- 6 Distant site(s)
- 7 Combination of 6 **with** 2, 3, 4, or 5
- 9 Unknown; not stated; death certificate **only**

Code a mandibulectomy or a maxillectomy in this field only if the procedure is **not** a part of an en bloc resection of the primary tumor. If the mandibulectomy or maxillectomy **is** a part of an en bloc resection of the primary tumor, code under Surgery of Primary Site.



**RECONSTRUCTION/RESTORATION - FIRST COURSE**

**Codes**

- 0 No reconstruction/restoration
  - 1 Flaps, grafts, or any type of "plasty," NOS
    - 2 **without** implant/prosthesis
    - 3 **with** implant/prosthesis
  - 8 Reconstruction/restoration recommended, unknown if performed
  - 9 Unknown; not stated; death certificate **only**
- 

**PAROTID AND OTHER UNSPECIFIED GLANDS**

**Parotid Gland C07.9, Major Salivary Glands C08.0-C08.9**

**SURGICAL APPROACH**

**Codes**

- 0 None; no cancer-directed surgery of primary site
- 4 Open
- 9 Death certificate **only**

**SURGERY OF PRIMARY SITE**

**Codes**

- 00 None; no cancer-directed surgery of primary site
- 10 Local tumor destruction, NOS (**without pathology specimen**)
  - 11 Photodynamic therapy (PDT)
    - PDT: Exposing photo-sensitive drugs to specific wave lengths of light in the presence of oxygen causing drug to become cytotoxic.
  - 12 Electrocautery; fulguration (includes use of hot forceps for tumor destruction)
  - 13 Cryosurgery
  - 14 Laser

No specimen sent to pathology from this surgical event.

- 20 Local tumor excision, NOS (**with pathology specimen**)
  - 21 Photodynamic therapy (PDT)
  - 22 Electrocautery
  - 23 Cryosurgery
  - 24 Laser ablation
  - 25 Laser excision
  - 26 Polypectomy
  - 27 Excisional biopsy

Specimen sent to pathology from this surgical event.

- 30 Less than total parotidectomy, NOS
  - 31 Facial nerve spared
  - 32 Facial nerve sacrificed
- 33 Superficial lobe **only**
  - 34 Facial nerve spared
  - 35 Facial nerve sacrificed
- 36 Deep lobe (**with** or **without** superficial lobe)
  - 37 Facial nerve spared
  - 38 Facial nerve sacrificed
- 40 Total parotidectomy, NOS
  - 41 Facial nerve spared
  - 42 Facial nerve sacrificed
- 50 Radical parotidectomy, NOS
  - 51 **without** removal of temporal bone
  - 52 **with** removal of temporal bone
- 80 Parotidectomy, NOS
- 90 Surgery, NOS
- 99 Unknown if cancer-directed surgery performed; death certificate **only**

**SURGICAL MARGINS**

**Codes**

- 0 All margins grossly and microscopically negative
- 1 Margins involved, NOS
  - 2 Microscopic involvement
  - 5 Macroscopic involvement
- 7 Margins not documented
- 8 No cancer-directed surgery of primary site
- 9 Unknown whether margins were involved or negative; death certificate **only**

**SCOPE OF REGIONAL LYMPH NODE SURGERY**

<b>Regional cervical lymph nodes are:</b>
Buccal (facial) Caudal jugular (deep cervical) Cranial jugular (deep cervical) Dorsal cervical (superficial cervical) Medial jugular (deep cervical) Occipital Paratracheal (anterior cervical) Parotid Prelaryngeal (anterior cervical) Retroauricular (mastoid, posterior auricular) Retropharyngeal Submandibular (submaxillary) Submental Supraclavicular

**Codes**

- 0 No regional lymph nodes removed
- 1 Regional lymph node(s) removed, NOS
  - 2 Neck dissection, NOS
    - 3 Selective, limited; nodal sampling; "berry picking"

- 4 Modified/modified radical
- 5 Radical
- 9 Unknown; not stated; death certificate **only**

Terminology of neck dissection (Robbins et al. 1991): A radical neck dissection includes the removal of all ipsilateral cervical lymph node groups, i.e., lymph nodes from levels I through V (submental, submandibular, cranial jugular, medial jugular, caudal jugular, dorsal cervical nodes along the accessory nerve, and supraclavicular), and removal of the spinal accessory nerve, internal jugular vein and sternocleidomastoid muscle. In a modified radical neck dissection, the same lymph nodes are removed as in a radical neck dissection; however, one or more nonlymphatic structures are preserved. A selective neck dissection preserves one or more lymph node groups routinely removed in radical neck dissection.

#### NUMBER OF REGIONAL LYMPH NODES EXAMINED

##### Codes

- 00 No regional lymph nodes removed
- 01 One regional lymph node removed
- 02 Two regional lymph nodes removed
- ..
- 90 Ninety or more regional lymph nodes removed
- 95 No regional lymph node(s) removed but aspiration of regional lymph node(s) was performed
- 96 Regional lymph node removal documented as a sampling and number of lymph nodes unknown/not stated
- 97 Regional lymph node removal documented as dissection and number of lymph nodes unknown/not stated
- 98 Regional lymph nodes surgically removed but number of lymph nodes unknown/not stated and not documented as sampling or dissection
- 99 Unknown; not stated; death certificate **only**

#### SURGERY OF OTHER REGIONAL SITE(S), DISTANT SITE(S) OR DISTANT LYMPH NODE(S)

##### Codes

- 0 None; no surgery to other regional or distant sites

- 1 Surgery to other site(s) or node(s), NOS; unknown if regional or distant
- 2 Other regional sites
- 3 Distant lymph node(s)
- 4 Distant site(s)
- 5 Combination of 4 **with** 2 or 3
- 9 Unknown; not stated; death certificate **only**

#### RECONSTRUCTION/RESTORATION - FIRST COURSE

##### Codes

- 0 No reconstruction/restoration
  - 1 Flaps, grafts, or any type of "plasty," NOS
  - 2 **without** implant/prosthesis
  - 3 **with** implant/prosthesis
  - 8 Reconstruction/restoration recommended, unknown if performed
  - 9 Unknown; not stated; death certificate **only**
- 

#### PHARYNX

**Tonsil C09.0-C09.9, Oropharynx C10.0-C10.9, Nasopharynx C11.0-C11.9, Pyriform Sinus C12.9, Hypopharynx C13.0-C13.9, Pharynx C14.0**

#### SURGICAL APPROACH

##### Codes

- 0 None; no cancer-directed surgery of primary site
- 4 Open
- 9 Death certificate **only**

#### SURGERY OF PRIMARY SITE

##### Codes

00 None; no cancer-directed surgery of primary site

10 Local tumor destruction, NOS (**without pathology specimen**)

11 Photodynamic therapy (PDT)

PDT: Exposing photo-sensitive drugs to specific wave lengths of light in the presence of oxygen causing drug to become cytotoxic.

12 Electrocautery; fulguration (includes use of hot forceps for tumor destruction)

13 Cryosurgery

14 Laser

No specimen sent to pathology from this surgical event.

20 Local tumor excision, NOS (**with pathology specimen**)

21 Photodynamic therapy (PDT)

22 Electrocautery

23 Cryosurgery

24 Laser ablation

25 Laser excision

26 Polypectomy

27 Excisional biopsy

Specimen sent to pathology from this surgical event.

30 Less than total parotidectomy, NOS

31 Facial nerve spared

32 Facial nerve sacrificed

33 Superficial lobe **only**

34 Facial nerve spared

35 Facial nerve sacrificed

36 Deep lobe (**with** or **without** superficial lobe)

37 Facial nerve spared

38 Facial nerve sacrificed

- 40 Total parotidectomy, NOS
  - 41 Facial nerve spared
  - 42 Facial nerve sacrificed
- 50 Radical parotidectomy, NOS
  - 51 **without** removal of temporal bone
  - 52 **with** removal of temporal bone
- 80 Parotidectomy, NOS
- 90 Surgery, NOS
- 99 Unknown if cancer-directed surgery performed; death certificate **only**

**SURGICAL MARGINS**

**Codes**

- 0 All margins grossly and microscopically negative
- 1 Margins involved, NOS
  - 2 Microscopic involvement
  - 5 Macroscopic involvement
- 7 Margins not documented
- 8 No cancer-directed surgery of primary site
- 9 Unknown whether margins were involved or negative; death certificate **only**

**SCOPE OF REGIONAL LYMPH NODE SURGERY**

<p><b>Regional cervical lymph nodes are:</b></p> <p>Buccal (facial)</p> <p>Caudal jugular (deep cervical)</p> <p>Cranial jugular (deep cervical)</p> <p>Dorsal cervical (superficial cervical)</p> <p>Medial jugular (deep cervical)</p> <p>Occipital</p> <p>Paratracheal (anterior cervical)</p> <p>Parotid</p> <p>Prelaryngeal (anterior cervical)</p>
--

Retroauricular (mastoid, posterior auricular)
Retropharyngeal
Submandibular (submaxillary)
Submental
Supraclavicular

**Codes**

- 0 No regional lymph nodes removed
- 1 Regional lymph node(s) removed, NOS
  - 2 Neck dissection, NOS
    - 3 Selective, limited; nodal sampling; "berry picking"
    - 4 Modified/modified radical
    - 5 Radical
- 9 Unknown; not stated; death certificate **only**

Terminology of neck dissection (Robbins et al. 1991): A radical neck dissection includes the removal of all ipsilateral cervical lymph node groups, i.e., lymph nodes from levels I through V (submental, submandibular, cranial jugular, medial jugular, caudal jugular, dorsal cervical nodes along the accessory nerve, and supraclavicular), and removal of the spinal accessory nerve, internal jugular vein and sternocleidomastoid muscle. In a modified radical neck dissection, the same lymph nodes are removed as in a radical neck dissection; however, one or more nonlymphatic structures are preserved. A selective neck dissection preserves one or more lymph node groups routinely removed in radical neck dissection.

**NUMBER OF REGIONAL LYMPH NODES EXAMINED**

**Codes**

- 00 No regional lymph nodes removed
- 01 One regional lymph node removed
- 02 Two regional lymph nodes removed
- ..
- 90 Ninety or more regional lymph nodes removed
- 95 No regional lymph node(s) removed but aspiration of regional lymph node(s) was performed
- 96 Regional lymph node removal documented as a sampling and number of lymph nodes unknown/not stated



- 97 Regional lymph node removal documented as dissection and number of lymph nodes unknown/not stated
- 98 Regional lymph nodes surgically removed but number of lymph nodes unknown/not stated and not documented as sampling or dissection
- 99 Unknown; not stated; death certificate **only**

**SURGERY OF OTHER REGIONAL SITE(S), DISTANT SITE(S) OR DISTANT LYMPH NODE(S)**

**Codes**

- 0 None; no surgery to other regional or distant sites
- 1 Surgery to other site(s) or node(s), NOS; unknown if regional or distant
  - 2 Other regional sites
  - 3 Distant lymph node(s)
  - 4 Distant site(s)
  - 5 Combination of 4 **with** 2 or 3
- 9 Unknown; not stated; death certificate **only**

**RECONSTRUCTION/RESTORATION - FIRST COURSE**

**Codes**

- 0 No reconstruction/restoration
- 1 Flaps, grafts, or any type of "plasty," NOS
  - 2 **without** implant/prosthesis
  - 3 **with** implant/prosthesis
- 8 Reconstruction/restoration recommended, unknown if performed
- 9 Unknown; not stated; death certificate **only**

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**ESOPHAGUS**

## C15.0-C15.9

### SURGICAL APPROACH

#### Codes

0 None; no cancer-directed surgery of primary site

**Endoscopy procedures include:** Esophagoscopy; Mediastinoscopy;  
Thoracoscopy

1 Endoscopy, NOS

2 Not image guided

3 Image guided

4 Open, NOS

5 Trans-hiatal

6 Thoracotomy (includes split sternum)

7 Laparotomy

9 Unknown; not stated; death certificate **only**

### SURGERY OF PRIMARY SITE

#### Codes

00 None; no cancer-directed surgery of primary site

10 Local tumor destruction, NOS (**without pathology specimen**)

11 Photodynamic therapy (PDT)

PDT: Exposing photo-sensitive drugs to specific wave lengths of light in the presence of oxygen causing drug to become cytotoxic.

12 Electrocautery; fulguration (includes use of hot forceps for tumor destruction)

13 Cryosurgery

Laser

No specimen sent to pathology from this surgical event.

20 Local tumor excision, NOS (**with pathology**)

**specimen)**

- 21 Photodynamic therapy (PDT)
- 22 Electrocautery
- 23 Cryosurgery
- 24 Laser ablation
- 25 Laser excision
- 26 Polypectomy
- 27 Excisional biopsy

Specimen sent to pathology from this surgical event.

- 30 Partial esophagectomy
- 40 Total esophagectomy
- 50 Partial esophagectomy **with** laryngectomy and/or gastrectomy, NOS
  - 51 **with** laryngectomy
  - 52 **with** gastrectomy, NOS
  - 53 Partial gastrectomy
  - 54 Total gastrectomy
  - 55 Combination of 51 **with** any of 52-54
- 60 Total esophagectomy, NOS **with** laryngectomy and/or gastrectomy, NOS
  - 61 **with** laryngectomy
  - 62 **with** gastrectomy, NOS
  - 63 Partial gastrectomy
  - 64 Total gastrectomy
  - 65 Combination of 61 **with** any of 62-64
- 70 Esophagectomy, NOS **with** pharyngectomy and laryngectomy
- 80 Esophagectomy, NOS
- 90 Surgery, NOS
- 99 Unknown if cancer-directed surgery performed; death

certificate only

**SURGICAL MARGINS**

**Codes**

- 0 All margins grossly and microscopically negative
- 1 Margins involved, NOS
  - 2 Microscopic involvement
  - 5 Macroscopic involvement
- 7 Margins not documented
- 8 No cancer-directed surgery of primary site
- 9 Unknown whether margins were involved or negative; death certificate **only**

**SCOPE OF REGIONAL LYMPH NODE SURGERY**

<b>Regional lymph nodes are different for each anatomical subsite. The following list identifies nodes classified as regional for each subsite:</b>	
Cervical esophagus:	Cervical, NOS Internal jugular Periesophageal Scalene Supraclavicular Upper cervical
Intrathoracic esophagus (upper, middle, lower):	Carinal Hilar (pulmonary roots) Internal jugular Mediastinal, NOS Paracardial Periesophageal Perigastric Peritracheal Superior mediastinal Tracheobronchial

**Codes**

- 0 No regional lymph nodes removed

- 1 Regional lymph node(s) removed, NOS
- 9 Unknown; not stated; death certificate **only**

**Celiac nodes are distant for intrathoracic esophagus.** Code removal of celiac nodes in the data item Surgery of Other Regional Site(s), Distant Site(s), or Distant Lymph Node(s).

**NUMBER OF REGIONAL LYMPH NODES EXAMINED**

**Codes**

- 00 No regional lymph nodes removed
- 01 One regional lymph node removed
- 02 Two regional lymph nodes removed
- ..
- 90 Ninety or more regional lymph nodes removed
- 95 No regional lymph node(s) removed but aspiration of regional lymph node(s) was performed
- 96 Regional lymph node removal documented as a sampling and number of lymph nodes unknown/not stated
- 97 Regional lymph node removal documented as dissection and number of lymph nodes unknown/not stated
- 98 Regional lymph nodes surgically removed but number of lymph nodes unknown/not stated and not documented as sampling or dissection
- 99 Unknown; not stated; death certificate **only**

**SURGERY OF OTHER REGIONAL SITE(S), DISTANT SITE(S) OR DISTANT LYMPH NODE(S)**

**Codes**

- 0 None; no surgery to other regional or distant sites
- 1 Surgery to other site(s) or node(s), NOS; unknown if regional or distant
  - 2 Other regional sites
  - 3 Distant lymph node(s)

- 4 Distant site(s)
- 5 Combination of 4 **with** 2 or 3
- 9 Unknown; not stated; death certificate **only**

**RECONSTRUCTION/RESTORATION - FIRST COURSE**

**Code only the following reconstructive procedures:**

Myocutaneous flaps (pectoralis major, trapezius)  
Reconstruction of mandible  
Regional flaps

**Codes**

- 0 No reconstruction/restoration
- 1 Reconstruction/restoration, NOS
  - 2 **without** implant/prosthesis
  - 3 **with** implant/prosthesis
- 8 Reconstruction/restoration recommended, unknown if performed
- 9 Unknown; not stated; death certificate **only**

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**STOMACH  
C16.0-C16.9**

**SURGICAL APPROACH**

**Codes**

- 0 None; no cancer-directed surgery of primary site

**Endoscopy procedures include:** Esophago-/gastro-/duodeno-/jejuno-scopy; Gastroscopy; Laparoscopy.

- 1 Endoscopy, NOS
  - 2 Not image guided
  - 3 Image guided

- 4 Open, NOS
  - 5 Not assisted by endoscopy
  - 6 Assisted by endoscopy
- 9 Unknown; not stated; death certificate **only**

**SURGERY OF PRIMARY SITE**

**Codes**

- 00 None; no cancer-directed surgery of primary site
- 10 Local tumor destruction, NOS (**without pathology specimen**)
  - 11 Photodynamic therapy (PDT)
  - 12 Electrocautery; fulguration (includes use of hot forceps for tumor destruction)
  - 13 Cryosurgery
  - 14 Laser

No specimen sent to pathology from this surgical event.

- 20 Local tumor excision, NOS (**with pathology specimen**)
  - 21 Photodynamic therapy (PDT)
  - 22 Electrocautery
  - 23 Cryosurgery
  - 24 Laser ablation
  - 25 Laser excision
  - 26 Polypectomy
  - 27 Excisional biopsy

Specimen sent to pathology from this surgical event.

Code 30, partial gastrectomy, includes a sleeve resection of the stomach: Billroth I: anastomosis to duodenum (duodenostomy); Billroth II: anastomosis to jejunum (jejunostomy)

- 30 Gastrectomy, NOS (partial, subtotal, hemi-)

31 Antrectomy, lower (distal)

Resection of less than 40% of stomach

32 Lower (distal) gastrectomy (partial, subtotal, hemi-)

33 Upper (proximal) gastrectomy (partial, subtotal, hemi-)

40 Near total or total gastrectomy

A total gastrectomy may follow a previous partial resection of the stomach.

50 Gastrectomy, NOS **with** removal of a portion of esophagus

51 Partial or subtotal gastrectomy

52 Near total or total gastrectomy

60 Gastrectomy **with** en bloc resection of other organs, NOS

61 Partial or subtotal gastrectomy **with** en bloc resection

62 Near total or total gastrectomy **with** en bloc resection (near total = 80% resection)

63 Radical gastrectomy **with** en bloc resection

**En bloc resection** is the removal of organs in one piece at one time and may include an omentectomy.

80 Gastrectomy, NOS

90 Surgery, NOS

99 Unknown if cancer-directed surgery performed; death certificate **only**

## **SURGICAL MARGINS**

### **Codes**

0 All margins grossly and microscopically negative

1 Margins involved, NOS



- 2 Microscopic involvement
- 5 Macroscopic involvement
- 7 Margins not documented
- 8 No cancer-directed surgery of primary site
- 9 Unknown whether margins were involved or negative; death certificate **only**

**SCOPE OF REGIONAL LYMPH NODE SURGERY**

<b>The regional lymph nodes are:</b>	
Greater Curvature of Stomach	Gastrooduodenal Gastroepiploic, left Gastroepiploic, right or NOS Greater omental Greater curvature Pancreaticoduodenal (anteriorly along the first part of duodenum) Pyloric, including subpyloric and infrapyloric
Pancreatic and Splenic Area:	Pancreaticolienal Peripancreatic Splenic hilum
Lesser Curvature of Stomach:	Cardioesophageal Celiac Common hepatic Hepatoduodenal Left gastric Lesser omental Lesser curvature Paracardial; cardial Perigastric, NOS

**Codes**

- 0 No regional lymph nodes removed
- 1 Regional lymph node(s) removed, NOS
- 9 Unknown; not stated; death certificate **only**

**NUMBER OF REGIONAL LYMPH NODES EXAMINED**

**Codes**

- 00 No regional lymph nodes removed
- 01 One regional lymph node removed
- 02 Two regional lymph nodes removed
- ..
- 90 Ninety or more regional lymph nodes removed
- 95 No regional lymph node(s) removed but aspiration of regional lymph node(s) was performed
- 96 Regional lymph node removal documented as a sampling and number of lymph nodes unknown/not stated
- 97 Regional lymph node removal documented as dissection and number of lymph nodes unknown/not stated
- 98 Regional lymph nodes surgically removed but number of lymph nodes unknown/not stated and not documented as sampling or dissection
- 99 Unknown; not stated; death certificate **only**

**SURGERY OF OTHER REGIONAL SITE(S), DISTANT SITE(S) OR DISTANT LYMPH NODE(S)**

**DO NOT CODE** the incidental removal of gallbladder, bile ducts, appendix, or vagus nerve. Incidental removal is when an organ is removed for a reason unrelated to the malignancy (gallbladder removed for obvious cholelithiasis).

**Codes**

- 0 None; no surgery to other regional or distant sites
- 1 Surgery to other site(s) or node(s), NOS; unknown if regional or distant
  - 2 Removal of other regional sites, **only**
  - 3 Removal of distant node(s)
  - 4 Removal of distant site
  - 5 Combination of 2 **with** 3 and/or 4
- 9 Unknown; not stated; death certificate **only**

**RECONSTRUCTION/RESTORATION - FIRST COURSE**

**Codes**

- 0 No reconstruction/restoration
- 1 Gastrostomy
  - 2 **without** reservoir/pouch
  - 3 **with** reservoir/pouch (abdominal)
- 9 Unknown; not stated; death certificate **only**

**COLON  
C18.0-C18.9**

**SURGICAL APPROACH**

**Codes**

- 0 None; no cancer-directed surgery of primary site
- 1 Endoscopy, NOS
 

**Endoscopy procedures include:** Colonoscopy; Laparoscopy; Sigmoidoscopy

  - 2 Not image guided
  - 3 Image guided
- 4 Open, NOS
  - 5 Not assisted by endoscopy
  - 6 Assisted by endoscopy
- 9 Unknown; not stated; death certificate **only**

**SURGERY OF PRIMARY SITE**

**Code** removal/surgical ablation of single or multiple liver metastases under the data item Surgery of Other Regional Site(s), Distant Site(s) or Distant Lymph Node(s).

**Codes**

- 00 None; no cancer-directed surgery of primary site
- 10 Local tumor destruction, NOS (**without pathology specimen**)

- 11 Photodynamic therapy (PDT)
  - 12 Electrocautery; fulguration (includes use of hot forceps for tumor destruction)
  - 13 Cryosurgery
  - 14 Laser
- No specimen sent to pathology from this surgical event.

20 Local tumor excision, NOS (**with pathology specimen**)

- 21 Photodynamic therapy (PDT)
- 22 Electrocautery
- 23 Cryosurgery
- 24 Laser ablation
- 25 Laser excision
- 26 Polypectomy
- 27 Excisional biopsy

Specimen sent to pathology from this surgical event.

**Procedures coded 30-31 include, but are not limited to:** Appendectomy (for an appendix primary only); Enterocolectomy; Ileocolectomy; Partial colectomy, NOS; Partial resection of transverse colon and flexures; Segmental resection, e.g., cecectomy; Sigmoidectomy

- 30 Partial colectomy, but less than hemicolectomy
- 31 Partial colectomy **with** permanent colostomy (Hartmann's operation)

**Also code** colostomy in the data item Reconstruction/Restoration.

- 40 Hemicolectomy or greater (but less than total); right or left colectomy

A hemicolectomy is the removal of total right or left colon and a portion of transverse colon.

- 50 Total colectomy

Removal of colon from cecum to the rectosigmoid or a portion of the rectum.

60 Total proctocolectomy

Commonly used for familial polyposis or polyposis coli.

70 Colectomy or coloproctectomy **with** an en bloc resection of other organs; pelvic exenteration

**Code 70** includes any colectomy (partial, hemicolectomy, or total) **with** an en bloc resection of any other organs. The other organs may be partially or totally removed. Procedures that may be a **part of an en bloc resection** include, but are not limited to: oophorectomy, partial proctectomy, rectal mucosectomy **En bloc** resection is the removal of organs in one piece at one time.

**The creation of ileal reservoir** which is a part of a pelvic exenteration **must also be coded** in the data item Reconstruction/Restoration.

80 Colectomy, NOS

90 Surgery, NOS

99 Unknown if cancer-directed surgery performed; death certificate **only**

**SURGICAL MARGINS**

Codes

0 All margins grossly and microscopically negative

1 Margins involved, NOS

2 Microscopic involvement

5 Macroscopic involvement

7 Margins not documented

8 No cancer-directed surgery of primary site

9 Unknown whether margins were involved or negative; death certificate **only**

**SCOPE OF REGIONAL LYMPH NODE SURGERY**

**The pathology report often describes regional lymph nodes by their anatomic location: colic nodes; mesenteric nodes; peri-\epi-\para-\ colic. Regional lymph nodes differ for each anatomical subsite. The following list identifies the regional lymph nodes for each subsite of the colon:**

Cecum and appendix	Anterior cecal Ileocolic Posterior cecal Right colic
Ascending colon	Ileocolic Middle colic Right colic
Hepatic flexure	Middle colic Right colic
Transverse colon	Middle colic
Splenic flexure	Inferior mesenteric Middle colic, left colic
Descending colon	Inferior mesenteric Left colic Sigmoid
Sigmoid colon	Inferior mesenteric Sigmoid mesenteric Sigmoidal Superior rectal(hemorrhoidal)

Superior mesenteric, external iliac and common iliac nodes are distant lymph nodes. **Code** the removal of any of these nodes in the data item Surgery of Other Regional Site(s), Distant Site(s), or Distant Lymph Node(s).

**Codes**

- 0 No regional lymph nodes removed
- 1 Regional lymph node(s) removed, NOS
- 9 Unknown; not stated; death certificate **only**

**NUMBER OF REGIONAL LYMPH NODES EXAMINED**

**Codes**

- 00 No regional lymph nodes removed
- 01 One regional lymph node removed
- 02 Two regional lymph nodes removed

..

- 90 Ninety or more regional lymph nodes removed
- 95 No regional lymph node(s) removed but aspiration of regional lymph node(s) was performed
- 96 Regional lymph node removal documented as a sampling and number of lymph nodes unknown/not stated
- 97 Regional lymph node removal documented as dissection and number of lymph nodes unknown/not stated
- 98 Regional lymph nodes surgically removed but number of lymph nodes unknown/not stated and not documented as sampling or dissection
- 99 Unknown; not stated; death certificate **only**

**SURGERY OF OTHER REGIONAL SITE(S), DISTANT SITE(S), OR DISTANT LYMPH NODE(S)**

**DO NOT CODE** the incidental removal of appendix, gallbladder, bile ducts, or spleen. Incidental removal is when an organ is removed for a reason unrelated to the malignancy (gallbladder removed for obvious cholelithiasis).

**Codes**

- 0 None; no surgery to other regional or distant sites
- 1 Surgery to other site(s) or node(s), NOS; unknown if regional or distant
  - 2 Removal of other regional site(s), **only**
  - 3 Removal/surgical ablation of single liver metastasis
  - 4 Removal/surgical ablation of multiple liver metastases
  - 5 Combination of codes 2 and 3 or 2 and 4
  - 6 Removal of other distant site(s) or distant lymph node(s), **only**
  - 7 Combination of code 6 **with** 3 or 5
  - 8 Combination of code 6 **with** 4
- 9 Unknown; not stated; death certificate **only**

**RECONSTRUCTION/RESTORATION - FIRST COURSE**

**Do not code anastomosis as reconstruction.**

**Codes**

- 0 No reconstruction/restoration
  - 1 Colostomy (permanent)
  - 2 Ileostomy, NOS
    - 3 **without** a reservoir or pouch
    - 4 **with** an abdominal reservoir or pouch
    - 5 **with** an anal reservoir or pouch; artificial sphincter
  - 9 Unknown; not stated; death certificate **only**
- 

**RECTOSIGMOID  
C19.9**

**SURGICAL APPROACH**

**Codes**

- 0 None; no cancer-directed surgery of primary site
- 1 Endoscopy, NOS (includes laparoscopic)
- 4 Open, NOS
  - 5 Transanal
  - 6 Posterior; coccygeal; trans-sacral; abdominosacral
  - 7 Low anterior (LAR)
  - 8 Abdominal perineal (AP)
- 9 Unknown; not stated; death certificate **only**

**SURGERY OF PRIMARY SITE**

**Codes**

- 00 None; no cancer-directed surgery of primary site



10 Local tumor destruction, NOS (**without pathology specimen**)

- 11 Photodynamic therapy (PDT)
- 12 Electrocautery; fulguration (includes use of hot forceps for tumor destruction)
- 13 Cryosurgery
- 14 Laser ablation

No specimen sent to pathology from this surgical event.

20 Local tumor excision, NOS (**with pathology specimen**)

- 21 Photodynamic therapy (PDT)
- 22 Electrocautery
- 23 Cryosurgery
- 24 Laser ablation
- 25 Laser excision
- 26 Polypectomy
- 27 Excisional biopsy

Specimen sent to pathology from this surgical event.

**Procedures coded 30 include, but are not limited to:** Anterior resection; Hartmann's operation; Low anterior resection; Partial colectomy, NOS; Rectosigmoidectomy, NOS; Sigmoidectomy.

30 Wedge or segmental resection; partial proctosigmoidectomy, NOS

Also code the colostomy the in the data item Reconstruction/Restoration.

**Procedures coded 40 include but are not limited to:** Altemeier's operation; Duhamel's operation; Soave's submucosal resection; Swenson's operation; Turnbull's operation.

40 Pull through **with** sphincter preservation (colo-anal anastomosis)

**Procedures coded 50 include but are not limited to:** Abdominoperineal resection (A & P resection); Anterior/posterior resection

(A/P resection)/Miles' operation; Rankin's operation

50 Total proctectomy

51 Total colectomy

Removal of the colon from cecum to the rectosigmoid or a portion of the rectum

60 Combination of 50 and 51

70 Colectomy or proctocolectomy **with** an en bloc resection of other organs; pelvic exenteration

**En bloc resection** is the removal of organs in one piece at one time. Procedures that may be a part of an en bloc resection include, but are not limited to: an oophorectomy and a rectal mucosectomy. Code 70 includes any colectomy (partial, hemicolectomy, or total) **with** an en bloc resection of any other organs. The other organs may be partially or totally removed.

An **ileal reservoir** which is part of a pelvic exenteration should be coded in the data item Reconstruction/Restoration.

80 Colectomy, NOS; Proctectomy, NOS

90 Surgery, NOS

99 Unknown if cancer-directed surgery performed; death certificate **only**

#### **SURGICAL MARGINS**

##### **Codes**

0 All margins grossly and microscopically negative

1 Margins involved, NOS

2 Microscopic involvement

5 Macroscopic involvement

7 Margins not documented

8 No cancer-directed surgery of primary site

9 Unknown whether margins were involved or negative; death certificate **only**

#### **SCOPE OF REGIONAL LYMPH NODE SURGERY**

**The pathology report often identifies regional lymph nodes by their**

**anatomic location: colic; mesenteric; peri-/para-/ colic; perirectal; rectal.**

**The specific regional lymph nodes are:**

Inferior mesenteric  
 Left colic  
 Middle rectal (hemorrhoidal)  
 Perirectal  
 Sigmoid mesenteric  
 Sigmoidal  
 Superior rectal (superior hemorrhoidal)

Superior mesenteric, external iliac and common iliac nodes are distant nodes. Code removal of these nodes under the data item Surgery of Other Regional Site(s), Distant Site(s), or Distant Lymph Node(s).

**Codes**

- 0 No regional lymph nodes removed
- 1 Regional lymph node(s) removed, NOS
- 9 Unknown; not stated; death certificate **only**

**NUMBER OF REGIONAL LYMPH NODES EXAMINED**

**Codes**

- 00 No regional lymph nodes removed
- 01 One regional lymph node removed
- 02 Two regional lymph nodes removed
- ..
- 90 Ninety or more regional lymph nodes removed
- 95 No regional lymph node(s) removed but aspiration of regional lymph node(s) was performed
- 96 Regional lymph node removal documented as a sampling and number of lymph nodes unknown/not stated
- 97 Regional lymph node removal documented as dissection and number of lymph nodes unknown/not

stated

98 Regional lymph nodes surgically removed but number of lymph nodes unknown/not stated and not documented as sampling or dissection

99 Unknown; not stated; death certificate **only**

**SURGERY OF OTHER REGIONAL SITE(S), DISTANT SITE(S), OR DISTANT LYMPH NODE(S)**

**DO NOT CODE the incidental removal of appendix, gallbladder, or bile ducts. Incidental removal is when an organ is removed for a reason unrelated to the malignancy (gallbladder removed for obvious cholelithiasis).**

**Codes**

0 None; no surgery to other regional or distant sites

1 Surgery to other site(s) or node(s), NOS; unknown if regional or distant

2 Removal of other regional site(s), **only**

3 Removal/surgical ablation of single liver metastasis

4 Removal/surgical ablation of multiple liver metastases

5 Combination of codes 2 and 3 or 2 and 4

6 Removal of other distant site(s) or distant lymph node(s), **only**

7 Combination of code 6 **with** 3, 4 or 5

8 Combination of code 6 **with** 3 or 5

9 Unknown; death certificate **only**

**RECONSTRUCTION/RESTORATION - FIRST COURSE**

**Codes**

0 No reconstruction/restoration

1 Colostomy (permanent)

2 Ileostomy, NOS

3 **without** a reservoir or pouch

4 **with** an abdominal reservoir or pouch

- 5 **with** an anal reservoir or pouch; artificial sphincter
- 9 Unknown; not stated; death certificate **only**

**RECTUM  
C20.9**

**SURGICAL APPROACH**

**Codes**

- 0 None; no cancer-directed surgery of primary site
- 1 Endoscopy, NOS (includes laparoscopy)
- 4 Open, NOS
  - 5 Transanal (Kraske, York Mason)
  - 6 Posterior; coccygeal; trans-sacral; abdominosacral
  - 7 Low anterior (LAR)
  - 8 Abdominal perineal (AP)
- 9 Unknown; not stated; death certificate **only**

**SURGERY OF PRIMARY SITE**

**CODE** removal/surgical ablation of single or multiple liver metastases under the data item Surgery of Other Regional Site(s), Distant Site(s) or Distant Lymph Node(s).

**Codes**

- 00 None; no cancer-directed surgery of primary site
- 10 Local tumor destruction, NOS (**without pathology specimen**)
  - 11 Photodynamic therapy (PDT)
  - 12 Electrocautery; fulguration (includes use of hot forceps for tumor destruction)
  - 13 Cryosurgery
  - 14 Laser

No specimen sent to pathology from this surgical event.

20 Local tumor excision, NOS (**with pathology specimen**)

- 21 Photodynamic therapy (PDT)
- 22 Electrocautery
- 23 Cryosurgery
- 24 Laser ablation
- 25 Laser excision
- 26 Polypectomy
- 27 Excisional biopsy
- 28 Curette and fulguration

Specimen sent to pathology from this surgical event.

**Procedures coded 30 include, but are not limited to:** Anterior resection; Hartmann's operation; Low anterior resection (LAR); Trans sacral rectosigmoidectomy.

30 Wedge or segmental resection; partial proctectomy, NOS

**Procedures coded 40 include but are not limited to:** Altemeier's operation; Duhamel's operation; Soave's submucosal resection; Swenson's operation; Turnbull's operation.

40 Pull through **with** sphincter preservation (colo-anal anastomosis)

**Procedures coded 50 include but are not limited to:** Abdominoperineal resection (A & P resection); Anterior/Posterior (A/P) resection/Miles' operation; Rankin's operation

50 Total proctectomy

60 Total proctocolectomy, NOS

70 Proctectomy or proctocolectomy **with** an en bloc resection of other organs; pelvic exenteration

**En bloc resection** is the removal of organs in one piece at one time. The creation of an ileal reservoir, which is a part of a pelvic exenteration, should be coded in the data item Reconstruction/Restoration.

80 Proctectomy, NOS

90 Surgery, NOS

- 99 Unknown if cancer-directed surgery performed; death certificate **only**

**SURGICAL MARGINS**

**Codes**

- 0 All margins grossly and microscopically negative
- 1 Margins involved, NOS
  - 2 Microscopic involvement
  - 5 Macroscopic involvement
- 7 Margins not documented
- 8 No cancer-directed surgery of primary site
- 9 Unknown whether margins were involved or negative; death certificate **only**

**SCOPE OF REGIONAL LYMPH NODE SURGERY**

<p><b>The pathology report often identifies regional lymph nodes by their anatomic location: mesenteric nodes; perirectal nodes; rectal nodes.</b></p>
<p><b>The specific regional lymph nodes are:</b></p>
<p>Inferior rectal (hemorrhoidal)                  Inferior mesenteric                  Internal iliac                  Lateral sacral                  Middle rectal (hemorrhoidal)                  Perirectal                  Presacral                  Sacral promontory (Gerotas)                  Sigmoid mesenteric                  Superior rectal (hemorrhoidal)</p>

Superior mesenteric, external iliac and common iliac nodes are classified as distant lymph nodes. **Code** removal of these nodes under the data item Surgery of Other Regional Site(s), Distant Site(s), or Distant Lymph Node(s).

**Codes**

- 0 No regional lymph nodes removed
- 1 Regional lymph node(s) removed, NOS

9 Unknown; not stated; death certificate **only**

#### NUMBER OF REGIONAL LYMPH NODES EXAMINED

##### Codes

- 00 No regional lymph nodes removed
- 01 One regional lymph node removed
- 02 Two regional lymph nodes removed
- ..
- 90 Ninety or more regional lymph nodes removed
- 95 No regional lymph node(s) removed but aspiration of regional lymph node(s) was performed
- 96 Regional lymph node removal documented as a sampling and number of lymph nodes unknown/not stated
- 97 Regional lymph node removal documented as dissection and number of lymph nodes unknown/not stated
- 98 Regional lymph nodes surgically removed but number of lymph nodes unknown/not stated and not documented as sampling or dissection
- 99 Unknown; not stated; death certificate **only**

#### SURGERY OF OTHER REGIONAL SITE(S), DISTANT SITE(S), OR DISTANT LYMPH NODE(S)

**DO NOT CODE** style="font-weight: normal;">the incidental removal of appendix, gallbladder, bile ducts, or spleen. Incidental removal is when an organ is removed for a reason unrelated to the malignancy (gallbladder removed for obvious cholelithiasis).

##### Codes

- 0 None; no surgery to other regional or distant sites
- 1 Surgery to other site(s) or node(s), NOS; unknown if regional or distant
  - 2 Removal of other regional site(s), **only**
  - 3 Removal/surgical ablation of single liver metastasis
  - 4 Removal/surgical ablation of multiple liver



metastases

- 5 Combination of codes 2 with 3 or 2 with 4
- 6 Removal of other distant site(s) or distant lymph node(s), **only**
- 7 Combination of code 6 **with** 3, 4 or 5
- 8 Combination of code 6 **with** 3 or 5
- 9 Unknown; death certificate **only**

**RECONSTRUCTION/RESTORATION - FIRST COURSE**

**Codes**

- 0 No reconstruction/restoration
- 1 Colostomy (permanent)
- 2 Ileostomy, NOS
  - 3 **without** a reservoir or pouch
  - 4 **with** an abdominal reservoir or pouch
  - 5 **with** an anal reservoir or pouch; artificial sphincter
- 9 Unknown; not stated; death certificate **only**

**ANUS  
C21.9**

**SURGICAL APPROACH**

**Codes**

- 0 None; no cancer-directed surgery of primary site
- 1 Endoscopy, NOS
  - 2 Not image guided
  - 3 Image guided
- 4 Open, NOS
  - 5 Not assisted by endoscopy

6 Assisted by endoscopy

9 Unknown; not stated; death certificate **only**

#### **SURGERY OF PRIMARY SITE**

##### **Codes**

00 None; no cancer-directed surgery of primary site

**Procedures for codes 10-14 include, but are not limited to:** Cryosurgery; Electrocautery; Excisional biopsy; Laser; Thermal ablation.

10 Local tumor destruction, NOS (**without pathology specimen**)

11 Photodynamic therapy (PDT)

12 Electrocautery; fulguration (includes use of hot forceps for tumor destruction)

13 Cryosurgery

14 Laser

No specimen sent to pathology from this surgical event.

20 Local tumor excision, NOS (**with pathology specimen**)

21 Photodynamic therapy (PDT)

22 Electrocautery

23 Cryosurgery

24 Laser ablation

25 Laser excision

26 Polypectomy

27 Excisional biopsy

Specimen sent to pathology from this surgical event. Margins of resection may have microscopic involvement.

60 Abdominal perineal resection, NOS

90 Surgery, NOS

99 Unknown if cancer-directed surgery performed; death

certificate **only**

#### **SURGICAL MARGINS**

##### **Codes**

- 0 All margins grossly and microscopically negative
- 1 Margins involved, NOS
  - 2 Microscopic involvement
  - 5 Macroscopic involvement
- 7 Margins not documented
- 8 No cancer-directed surgery of primary site
- 9 Unknown whether margins were involved or negative; death certificate **only**

#### **SCOPE OF REGIONAL LYMPH NODE SURGERY**

##### **Codes**

- 0 No regional lymph nodes removed
- 1 Regional lymph node(s) removed, NOS
  - 2 Perirectal, anorectal lymph nodes
  - 3 Internal iliac lymph nodes (hypogastric), unilateral
  - 4 Inguinal lymph nodes, unilateral
  - 5 Combination of 2 and 4
  - 6 Bilateral internal iliac and/or bilateral inguinal lymph nodes
- 9 Unknown; not stated; death certificate **only**

#### **NUMBER OF REGIONAL LYMPH NODES EXAMINED**

##### **Codes**

- 00 No regional lymph nodes removed
- 01 One regional lymph node removed
- 02 Two regional lymph nodes removed

..

- 90 Ninety or more regional lymph nodes removed
- 95 No regional lymph node(s) removed but aspiration of regional lymph node(s) was performed
- 96 Regional lymph node removal documented as a sampling and number of lymph nodes unknown/not stated
- 97 Regional lymph node removal documented as dissection and number of lymph nodes unknown/not stated
- 98 Regional lymph nodes surgically removed but number of lymph nodes unknown/not stated and not documented as sampling or dissection
- 99 Unknown; not stated; death certificate **only**

**SURGERY OF OTHER REGIONAL SITE(S), DISTANT SITE(S) OR DISTANT LYMPH NODE(S)**

**Codes**

- 0 None; no surgery to other regional or distant sites
- 1 Surgery to other site(s) or node(s), NOS; unknown if regional or distant
  - 2 Other regional sites
  - 3 Distant lymph node(s)
  - 4 Distant site(s)
  - 5 Combination of 4 **with** 2 or 3
- 9 Unknown; not stated; death certificate **only**

**RECONSTRUCTION/RESTORATION - FIRST COURSE**

**Codes**

- 0 No reconstruction/restoration
- 1 Colostomy (permanent)
- 2 Ileostomy, NOS
  - 3 **without** a reservoir or pouch

- 4 **with** an abdominal reservoir or pouch
- 5 **with** an anal reservoir or pouch; artificial sphincter
- 9 Unknown; not stated; death certificate **only**

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**LIVER AND INTRAHEPATIC BILE DUCTS  
C22.0-C22.1**

**SURGICAL APPROACH**

**Codes**

- 0 None; no cancer-directed surgery of primary site
- 1 Endoscopy **only**, NOS (laparoscopy)
  - 2 Not image guided
  - 3 Image guided
- 4 Open, NOS
  - Not assisted by endoscopy
  - Assisted by endoscopy
- 9 Unknown; not stated; death certificate **only**

**SURGERY OF PRIMARY SITE**

**Codes**

- 00 None; no cancer-directed surgery of primary site
- 10 Local tumor destruction, NOS
  - 11 Photodynamic therapy (PDT)
  - 12 Electrocautery; fulguration (includes use of hot forceps for tumor destruction)
  - 13 Cryosurgery
  - 14 Laser
  - 15 Alcohol (PEI)
  - 16 Heat

- 17 Other (ultrasound, acetic acid)
- 20 Wedge resection, NOS; segmental resection
- 30 Lobectomy, NOS
  - 31 Simple
  - 32 Extended

Extended lobectomy: resection of a single lobe plus a segment of another lobe.

- 40 Excision of a bile duct (for an intrahepatic bile duct primary only)
- 70 Total hepatectomy with transplant

Liver transplant must also be coded under the data item Reconstruction/Restoration.

- 80 Hepatectomy, NOS
- 90 Surgery, NOS
- 99 Unknown if cancer-directed surgery performed; death certificate **only**

#### **SURGICAL MARGINS**

##### **Codes**

- 0 All margins grossly and microscopically negative
- 1 Margins involved, NOS
  - 2 Microscopic involvement
  - 5 Macroscopic involvement
- 7 Margins not documented
- 8 No cancer directed surgery of primary site
- 9 Unknown whether margins were involved or negative; death certificate **only**

#### **SCOPE OF REGIONAL LYMPH NODE SURGERY**

**Regional lymph nodes are the hilar nodes:**

Along the portal vein Along the inferior vena cava Along the proper hepatic artery At the hepatic pedicle
--

**Codes**

- 0 No regional lymph nodes removed
- 1 Regional lymph node(s) removed, NOS
- 9 Unknown; not stated; death certificate **only**

**NUMBER OF REGIONAL LYMPH NODES EXAMINED**

**Codes**

- 00 No regional lymph nodes removed
- 01 One regional lymph node removed
- 02 Two regional lymph nodes removed
- ..
- 90 Ninety or more regional lymph nodes removed
- 95 No regional lymph node(s) removed but aspiration of regional lymph node(s) was performed
- 96 Regional lymph node removal documented as a sampling and number of lymph nodes unknown/not stated
- 97 Regional lymph node removal documented as dissection and number of lymph nodes unknown/not stated
- 98 Regional lymph nodes surgically removed but number of lymph nodes unknown/not stated and not documented as sampling or dissection
- 99 Unknown; not stated; death certificate **only**

**SURGERY OF OTHER REGIONAL SITE(S), DISTANT SITE(S) OR DISTANT LYMPH NODE(S)**

**Codes**

- 0 None; no surgery to other regional or distant sites
- 1 Surgery to other site(s) or node(s), NOS; unknown if regional or distant
  - 2 Other regional sites
  - 3 Distant lymph node(s) (includes inferior phrenic lymph nodes)
  - 4 Distant site(s)
  - 5 Combination of 4 **with** 2 or 3
- 9 Unknown; not stated; death certificate **only**

**RECONSTRUCTION/RESTORATION - FIRST COURSE**

**Codes**

- 0 No reconstruction/restoration
- 1 Rioux en Y; hepatojejunostomy including stent
- 2 Liver transplant
- 9 Unknown; not stated; death certificate **only**

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**PANCREAS  
C25.0-25.9**

**SURGICAL APPROACH**

**Codes**

- 0 None; no cancer-directed surgery of primary site
- 1 Endoscopy, NOS (laparoscopy)
  - 2 Not image guided
  - 3 Image guided
- 4 Open, NOS
  - 5 Not assisted by endoscopy
  - 6 Assisted by endoscopy



- 9 Unknown; not stated; death certificate **only**

**SURGERY OF PRIMARY SITE**

**Codes**

- 00 None; no cancer-directed surgery of primary site
- 10 Local excision of tumor, NOS
- 20 Partial pancreatectomy, NOS
- 40 Total pancreatectomy
- 50 Local or partial pancreatectomy and duodenectomy
  - 51 Without subtotal gastrectomy
  - 52 With subtotal gastrectomy (Whipple)
- 60 Total pancreatectomy and subtotal gastrectomy or duodenectomy
- 70 Extended pancreatoduodenectomy
- 80 Pancreatectomy, NOS
- 90 Surgery, NOS
- 99 Unknown if cancer-directed surgery performed; death certificate **only**

**SURGICAL MARGINS**

**Codes**

- 0 All margins grossly and microscopically negative
- 1 Margins involved, NOS
  - 2 Microscopic involvement
  - 5 Macroscopic involvement
- 7 Margins not documented
- 8 No cancer-directed surgery of primary site
- 9 Unknown whether margins were involved or negative; death certificate **only**

**SCOPE OF REGIONAL LYMPH NODE SURGERY**

<b>The regional lymph nodes are:</b>
Celiac (head only)
Hepatic artery
Infrapyloric (head only)
Lateral aortic
Pancreaticolienal (body and tail only)
Peripancreatic (superior, inferior, anterior, posterior splenic)
Retroperitoneal
Splenic (body and tail only)
Subpyloric (head only)
Superior mesenteric

**Codes**

- 0 No regional lymph nodes removed
- 1 Regional lymph node(s) removed, NOS
- 2 Extended lymphadenectomy

An extended pancreaticoduodenectomy incorporates selected aspects of the Whipple procedure and regional pancreatectomy. A wide Kocher maneuver removes all lymphatic tissue over the medical aspect of the right kidney, inferior vena cava, and left renal vein.

- 9 Unknown; not stated; death certificate **only**

**NUMBER OF REGIONAL LYMPH NODES EXAMINED**

**Codes**

- 00 No regional lymph nodes removed
- 01 One regional lymph node removed
- 02 Two regional lymph nodes removed
- ..
- 90 Ninety or more regional lymph nodes removed
- 95 No regional lymph node(s) removed but aspiration of regional lymph node(s) was performed
- 96 Regional lymph node removal documented as a sampling and number of lymph nodes unknown/not stated
- 97 Regional lymph node removal documented as

dissection and number of lymph nodes unknown/not stated

- 98 Regional lymph nodes surgically removed but number of lymph nodes unknown/not stated and not documented as sampling or dissection
- 99 Unknown; not stated; death certificate **only**

**SURGERY OF OTHER REGIONAL SITE(S), DISTANT SITE(S) OR DISTANT LYMPH NODE(S)**

**Codes**

- 0 None; no surgery to other regional or distant sites
- 1 Surgery to other site(s) or node(s), NOS; unknown if regional or distant
  - 2 Removal of other regional sites, **only**
  - 3 Removal of distant node(s)
  - 4 Removal of distant site
  - 5 Combination of 2 **with** 3 and/or 4
- 9 Unknown; not stated; death certificate **only**

**RECONSTRUCTION/RESTORATION - FIRST COURSE**

**Codes**

- 9 Not applicable (There are no known reconstructive procedures for this site.)

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**LARYNX  
C32.0-C32.9**

**SURGICAL APPROACH**

**Codes**

- 0 None; no cancer-directed surgery of primary site
- 1 Endoscopy, NOS

- 2 Not image guided
- 3 Image guided
- 4 Open, NOS
  - 5 Not assisted by endoscopy
  - 6 Assisted by endoscopy
- 9 Unknown; not stated; death certificate **only**

#### **SURGERY OF PRIMARY SITE**

##### **Codes**

- 00 None; no cancer directed surgery of primary site
- 10 Local tumor destruction, NOS (**without pathology specimen**)
  - 11 Photodynamic therapy (PDT)
  - 12 Electrocautery; fulguration (includes use of hot forceps for tumor destruction)
  - 13 Cryosurgery
  - 14 Laser
  - 15 Stripping

No specimen sent to pathology from this surgical event.
- 20 Local tumor excision, NOS (**with pathology specimen**)
  - 21 Photodynamic therapy (PDT)
  - 22 Electrocautery
  - 23 Cryosurgery
  - 24 Laser ablation
  - 25 Laser excision
  - 26 Polypectomy
  - 27 Excisional biopsy
  - 28 Stripping

Specimen sent to pathology from this surgical event.

- 30 Partial excision of the primary site, NOS; subtotal/partial laryngectomy NOS; hemilaryngectomy NOS
  - 31 Vertical laryngectomy
  - 32 Anterior commissure laryngectomy
  - 33 Supraglottic laryngectomy
- 40 Total or radical laryngectomy, NOS
  - 41 Total laryngectomy **only**
  - 42 Radical laryngectomy **only**
- 50 Pharyngolaryngectomy
- 80 Laryngectomy, NOS
- 90 Surgery, NOS
- 99 Unknown if cancer-directed surgery performed; death certificate **only**

**SURGICAL MARGINS**

**Codes**

- 0 All margins grossly and microscopically negative
- 1 Margin involved, NOS
  - 2 Microscopic involvement
  - 5 Macroscopic involvement
- 7 Margins not documented
- 8 No cancer-directed surgery of primary site
- 9 Unknown whether margins were involved or negative; death certificate **only**

**SCOPE OF REGIONAL LYMPH NODE SURGERY**

<b>The regional cervical lymph nodes are:</b>
Buccal (facial) Caudal jugular (deep cervical)

Cranial jugular (deep cervical)
Dorsal cervical (superficial cervical)
Medial jugular (deep cervical)
Occipital
Paratracheal (anterior cervical)
Parotid
Prelaryngeal (anterior cervical)
Retroauricular (mastoid, posterior auricular)
Retropharyngeal
Submandibular (submaxillary)
Submental
Supraclavicular

**Codes**

- 0 No regional lymph nodes removed
- 1 Regional lymph node(s) removed, NOS
  - 2 Neck dissection, NOS
    - 3 Selective, limited; nodal sampling; "berry picking"
    - 4 Modified/modified radical
    - 5 Radical
- 9 Unknown; not stated; death certificate **only**

**Terminology of neck dissection (Robbins et al. 1991):** A radical neck dissection includes the removal of all ipsilateral cervical lymph node groups, i.e., lymph nodes from levels I through V (submental, submandibular, cranial jugular, medial jugular, caudal jugular, dorsal cervical nodes along the accessory nerve, and supraclavicular), and removal of the spinal accessory nerve, internal jugular vein and sternocleidomastoid muscle. In a modified radical neck dissection the same lymph nodes are removed as in a radical neck dissection; however, one or more nonlymphatic structures are preserved. A selective neck dissection preserves one or more lymph node groups routinely removed in radical neck dissection.

**NUMBER OF REGIONAL LYMPH NODES EXAMINED**

**Codes**

- 00 No regional lymph nodes removed
- 01 One regional lymph node removed
- 02 Two regional lymph nodes removed
- ..
- 90 Ninety or more regional lymph nodes removed

- 95 No regional lymph node(s) removed but aspiration of regional lymph node(s) was performed
- 96 Regional lymph node removal documented as a sampling and number of lymph nodes unknown/not stated
- 97 Regional lymph node removal documented as dissection and number of lymph nodes unknown/not stated
- 98 Regional lymph nodes surgically removed but number of lymph nodes unknown/not stated and not documented as sampling or dissection
- 99 Unknown; not stated; death certificate **only**

**SURGERY OF OTHER REGIONAL SITE(S), DISTANT SITE(S) OR DISTANT LYMPH NODE(S)**

**Codes**

- 0 None; no surgery to other regional or distant sites
- 1 Surgery to other site(s) or node(s), NOS; unknown if regional or distant
  - 2 Other regional sites
  - 3 Distant lymph node(s)
  - 4 Distant site(s)
  - 5 Combination of 4 **with** 2 or 3
- 9 Unknown; not stated; death certificate **only**

**RECONSTRUCTION/RESTORATION - FIRST COURSE**

**Codes**

- 0 No reconstruction/restoration
- 1 Flaps, grafts, or any "plastys," NOS
  - 2 without implant/prosthesis
  - 3 with implant/prosthesis
- 8 Reconstruction/restoration recommended, unknown if performed

9 Unknown; not stated; death certificate **only**

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**LUNG**  
**C34.0-C34.9**

**SURGICAL APPROACH**

**Codes**

- 0 None; no cancer-directed surgery of primary site
- 1 Endoscopy, NOS
  - 2 Bronchoscopy
  - 3 Mediastinoscopy
  - 4 Thoracoscopy
- 5 Open, NOS (thoracotomy, sternotomy)
  - 6 Not assisted by endoscopy
  - 7 Assisted by endoscopy
- 9 Unknown; not stated; death certificate **only**

**SURGERY OF PRIMARY SITE**

**Codes**

- 00 None; no cancer-directed surgery of primary site
- 10 Local tumor destruction or excision, NOS
  - 11 Excision
  - 12 Laser ablation or excision
  - 13 Cautery; fulguration
  - 14 Bronchial sleeve resection **only**
- 20 Resection of less than one lobe
  - 21 Wedge resection
  - 22 Segmental resection, including lingulectomy
- 30 Resection of at least one lobe, but less than the whole



lung (partial pneumonectomy, NOS)

31 Lobectomy

32 Bilobectomy

Procedures coded 40 include, but are not limited to: Complete pneumonectomy; Pneumonectomy, NOS; Sleeve pneumonectomy; Standard pneumonectomy; Total pneumonectomy.

40 Resection of whole lung

50 Resection of lung **with** an en bloc resection of other organs

51 Wedge resection

52 Lobectomy

53 Bilobectomy

54 Pneumonectomy (less than a radical or extended pneumonectomy)

**En bloc resection is the removal of organs in one piece at one time.**

60 Radical pneumonectomy

Radical pneumonectomy is a complete pneumonectomy **with** removal of mediastinal lymph nodes. Removal of mediastinal nodes is also coded in the data fields Scope of Regional Lymph Node Surgery and Number of Regional Lymph Nodes Removed.

70 Extended radical pneumonectomy

An extended radical pneumonectomy is a radical pneumonectomy (including removal of mediastinal nodes) and the removal of other tissues or nodes. Removal of mediastinal nodes is also coded in the data fields Scope of Regional Lymph Node Surgery and Number of Regional Lymph Nodes Removed.

80 Resection of lung, NOS

90 Surgery, NOS

99 Unknown if cancer-directed surgery performed; death certificate **only**

## SURGICAL MARGINS

### Codes

- 0 All margins grossly and microscopically negative
- 1 Margins involved, NOS
  - 2 Microscopic involvement
  - 5 Macroscopic involvement
- 7 Margins not documented
- 8 No cancer-directed surgery of primary site
- 9 Unknown whether margins were involved or negative; death certificate **only**

**SCOPE OF REGIONAL LYMPH NODE SURGERY**

<b>Mediastinal nodes are:</b>
Aortic (includes subaortic, aorticopulmonary window, periaortic, including ascending aorta or including azygos)
Periesophageal
Peritracheal (including those that may be designated tracheobronchial, i.e., lower peritracheal, phrenic)
Pre- and retrotracheal (includes precarinal)
Pulmonary ligament
Subcarinal

**Codes**

- 0 All margins grossly and microscopically negative
- 1 Margins involved, NOS
  - 2 Microscopic involvement
  - 5 Macroscopic involvement
- 7 Margins not documented
- 8 No cancer-directed surgery of primary site
- 9 Unknown whether margins were involved or negative; death certificate **only**

**NUMBER OF REGIONAL LYMPH NODES EXAMINED**

**Codes**

- 00 No regional lymph nodes removed

- 01 One regional lymph node removed
- 02 Two regional lymph nodes removed
- ..
- 90 Ninety or more regional lymph nodes removed
- 95 No regional lymph node(s) removed but aspiration of regional lymph node(s) was performed
- 96 Regional lymph node removal documented as a sampling and number of lymph nodes unknown/not stated
- 97 Regional lymph node removal documented as dissection and number of lymph nodes unknown/not stated
- 98 Regional lymph nodes surgically removed but number of lymph nodes unknown/not stated and not documented as sampling or dissection
- 99 Unknown; not stated; death certificate **only**

**SURGERY OF OTHER REGIONAL SITE(S), DISTANT SITE(S) OR DISTANT LYMPH NODE(S)**

**Codes**

- 0 None; no surgery to other regional sites, distant sites or distant lymph nodes
- 1 Surgery to other site(s) or node(s), NOS; unknown if regional or distant
- 2 Surgery to a regional site **only**
  - 3 Removal of a solitary lesion in the same lung (primary site), different (non primary) lobe
- 4 Resection of metastasis in a distant site(s) or resection of distant lymph nodes(s), NOS
- 5 Removal of a solitary lesion in the contralateral lung

There is one primary. Patient has two tumors with the same histology in different lobes of the same lung.

Patient has one primary. There is a primary tumor or tumor(s) in one

lung and a solitary metastatic lesion in the contralateral lung.

- 6 Removal of a solitary lesion in a distant site or a distant lymph node, NOS

This includes, but is not limited to the removal of a solitary metastatic brain lesion.

- 7 Removal of multiple lesions in distant site(s)
- 9 Unknown; not stated; death certificate **only**

#### RECONSTRUCTION/RESTORATION - FIRST COURSE

##### Codes

- 0 No reconstruction/restoration
- 1 Chest wall reconstruction/restoration, NOS
- 9 Unknown; not stated; death certificate **only**

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#### BONES, PERIPHERAL NERVES, & SOFT TISSUES

**Bones, Joints, and Articular Cartilage C40.0-C41.9, Peripheral Nerves and Autonomic Nervous System C47.0-C47.9, Connective, Subcutaneous and Other Soft Tissues C49.0-C49.9**

#### SURGICAL APPROACH

##### Codes

- 0 None; no cancer-directed surgery of primary site
- 1 Endoscopy, NOS
  - 2 Not image guided
  - 3 Image guided
- 4 Open, NOS
  - 5 Not assisted by endoscopy
  - 6 Assisted by endoscopy
- 9 Unknown; not stated; death certificate **only**

**SURGERY OF PRIMARY SITE**

**Codes**

- 00 None; no cancer-directed surgery of primary site
- 10 Local tumor destruction or excision
- 20 Partial resection/internal hemipelvectomy (pelvis)
- 30 Radical excision or resection of lesion with limb salvage
- 40 Amputation of limb
  - 41 Partial amputation of limb
  - 42 Total amputation of limb
- 50 Major amputation, NOS
  - 51 Forequarter, including scapula
  - 52 Hindquarter, including ilium/hip bone
  - 53 Hemipelvectomy
- 90 Surgery, NOS
- 99 Unknown if cancer-directed surgery performed; death certificate **only**

**SURGICAL MARGINS**

**Codes**

- 0 All margins grossly and microscopically negative
- 1 Margins involved, NOS
  - 2 Microscopic involvement
  - 5 Macroscopic involvement
- 7 Margins not documented
- 8 No cancer-directed surgery of primary site
- 9 Unknown whether margins were involved or negative; death certificate **only**

**SCOPE OF REGIONAL LYMPH NODE SURGERY**

**Codes**

- 0 No regional lymph nodes removed
- 1 Regional lymph node(s) removed, NOS
- 9 Unknown; not stated; death certificate **only**

**NUMBER OF REGIONAL LYMPH NODES EXAMINED**

**Codes**

- 00 No regional lymph nodes removed
- 01 One regional lymph node removed
- 02 Two regional lymph nodes removed
- ..
- 90 Ninety or more regional lymph nodes removed
- 95 No regional lymph node(s) removed but aspiration of regional lymph node(s) was performed
- 96 Regional lymph node removal documented as a sampling and number of lymph nodes unknown/not stated
- 97 Regional lymph node removal documented as dissection and number of lymph nodes unknown/not stated
- 98 Regional lymph nodes surgically removed but number of lymph nodes unknown/not stated and not documented as sampling or dissection
- 99 Unknown; not stated; death certificate **only**

**SURGERY OF OTHER REGIONAL SITE(S), DISTANT SITE(S) OR DISTANT LYMPH NODE(S)**

**Codes**

- 0 None; no surgery to other regional or distant sites
- 1 Surgery to other site(s) or node(s), NOS; unknown if regional or distant
  - 2 Other regional site(s)
  - 5 Distant lymph node(s)

- 6 Distant site(s)
- 7 Combination of 6 **with** 2 or 5
- 9 Unknown; not stated; death certificate **only**

**RECONSTRUCTION/RESTORATION - FIRST COURSE**

**Codes**

- 0 No reconstruction/restoration
  - 1 Flap, graft, or any "plasty," NOS
    - 2 without implant/prosthesis
    - 3 with implant/prosthesis
  - 8 Reconstruction/restoration recommended, unknown if performed
  - 9 Unknown; not stated; death certificate **only**
- 

**SPLEEN AND LYMPH NODES**

**Spleen C42.2**

**Lymph Nodes C77.0-C77.9**

**SURGICAL APPROACH**

**Codes**

- 0 None; no cancer directed surgery of primary site
- 1 Endoscopy, NOS
  - 2 Not image guided
  - 3 Image guided
- 4 Open, NOS
  - 5 Not assisted by endoscopy
  - 6 Assisted by endoscopy
- 9 Unknown; not stated; death certificate **only**

**SURGERY OF PRIMARY SITE**

**Codes**

- 00 None; no cancer-directed surgery of primary site
- 10 Local excision, destruction, NOS
- 20 Splenectomy, NOS
  - 21 Partial splenectomy
  - 22 Total splenectomy
- 30 Lymph node dissection, NOS
  - 31 One chain
  - 32 Two or more chains
- 40 Lymph node dissection, NOS plus splenectomy
  - 41 One chain
  - 42 Two or more chains
- 50 Lymph node dissection, NOS and partial/total removal of adjacent organ(s)
  - 51 One chain
  - 52 Two or more chains
- 60 Lymph node dissection, NOS and partial/total removal of adjacent organ(s) **plus** splenectomy
  - 61 One chain
  - 62 Two or more chains
- 90 Surgery, NOS
- 99 Unknown if cancer-directed surgery performed; death certificate **only**

**SURGICAL MARGINS**

**Codes**

- 0 All margins grossly and microscopically negative
- 1 Margins involved, NOS
  - 2 Microscopic involvement
  - 5 Macroscopic involvement



- 7 Margins not documented
- 8 No cancer-directed surgery of primary site
- 9 Unknown whether margins were involved or negative; death certificate **only**

**SCOPE OF REGIONAL LYMPH NODE SURGERY**

**Note:** For primary sites C77.0-C77.9, code this field as 9.

**Codes**

- 0 No regional lymph nodes removed
- 1 Regional lymph node(s) removed, NOS
- 9 Unknown; not stated; death certificate **only**

**NUMBER OF REGIONAL LYMPH NODES EXAMINED**

**Note: Spleen only.** For lymphomas, code this field to 99.

**Codes**

- 00 No regional lymph nodes removed
- 01 One regional lymph node removed
- 02 Two regional lymph nodes removed
- ..
- Ninety or more regional lymph nodes removed
- 95 No regional lymph node(s) removed but aspiration of regional lymph node(s) was performed
- 96 Regional lymph node removal documented as a sampling and number of lymph nodes unknown/not stated
- 97 Regional lymph node removal documented as dissection and number of lymph nodes unknown/not stated
- 98 Regional lymph nodes surgically removed but number of lymph nodes unknown/not stated and not documented as sampling or dissection
- 99 Unknown; not stated; death certificate **only**

**SURGERY OF OTHER REGIONAL SITE(S), DISTANT SITE(S) OR DISTANT LYMPH NODE(S)**

**Codes**

- 0 None; no surgery to other regional or distant sites
- 1 Surgery to other site(s) or node(s), NOS; unknown if regional or distant
- 2 Other regional site(s)
- 5 Distant lymph node(s)
- 6 Distant site(s)
- 7 Combination of 6 **with** 2 or 5
- 9 Unknown; not stated; death certificate **only**

**RECONSTRUCTION/RESTORATION - FIRST COURSE**

**Codes**

- 9 At this time, reconstructive procedures are not being collected for these sites

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**SKIN  
C44.0-C44.9**

**SURGICAL APPROACH**

**Codes**

- 0 None; no cancer-directed surgery of primary site
- 4 Open approach
- 9 Death certificate **only**

**SURGERY OF PRIMARY SITE**

**Codes**

- 00 None; no cancer-directed surgery of primary site

10 Local tumor destruction, NOS (**without pathology specimen**)

- 11 Photodynamic therapy (PDT)
- 12 Electrocautery; fulguration (includes use of hot forceps for tumor destruction)
- 13 Cryosurgery
- 14 Laser ablation

No specimen sent to pathology from this surgical event.

20 Local tumor excision, NOS (**with pathology specimen**)

- 21 Photodynamic therapy (PDT)
- 22 Electrocautery
- 23 Cryosurgery
- 24 Laser ablation
- 25 Laser excision
- 26 Polypectomy
- 27 Excisional biopsy

Specimen sent to pathology from this surgical event.

30 Biopsy of primary tumor followed by a gross excision of the lesion

- 31 Shave biopsy followed by a gross excision of the lesion
- 32 Punch biopsy followed by a gross excision of the lesion
- 33 Incisional biopsy followed by a gross excision of the lesion

Less than a wide excision, less than 1 cm margin.

40 Wide excision or reexcision of lesion or minor (local) amputation, NOS

Margins of excision are 1 cm or more. Margins may be microscopically involved. Local amputation is the surgical resection of digits, ear, eyelid,

lip, or nose.

50 Radical excision of a lesion, NOS

Margins of excision are greater than 1 cm and grossly tumor free. The margins may be microscopically involved.

60 Major amputation, NOS

90 Surgery, NOS

99 Unknown if cancer-directed surgery performed; death certificate **only**

### SURGICAL MARGINS

#### Codes

0 All margins grossly and microscopically negative

1 Margins involved, NOS

2 Microscopic involvement

5 Macroscopic involvement

7 Margins not documented

8 No cancer-directed surgery of primary site

9 Unknown whether margins were involved or negative; death certificate **only**

### SCOPE OF REGIONAL LYMPH NODE SURGERY

Regional lymph nodes are different for each anatomical subsite.

Head, neck	Cervical, ipsilateral preauricular, submandibular, and supraclavicular
Thorax	Ipsilateral axillary
Arm	Ipsilateral epitrochlear and axillary
Abdomen, loins, and buttocks	Ipsilateral inguinal
Anal margin and perianal skin	Ipsilateral inguinal

Leg	Ipsilateral inguinal and popliteal
-----	------------------------------------

There are **boundary zones between the subsites** (i.e., between the thorax and arm, the boundary zone is the shoulder and axilla). The boundary zones do not belong to either subsite. If a tumor originates in one of these 4 cm boundary zones, the nodes on either side of the bands are regional.

BETWEEN THE SUBSITES		THE BOUNDARY ZONE IS
Head and neck AND	Thorax	Clavícula-acromion-upper shoulder blade edge
Thorax AND	Arm	Shoulder-axilla-shoulder
Thorax AND	Abdomen, loins, and buttocks	Front: Middle between navel and costal arch Back: Lower border of thoracic vertebrae (midtransverse axis)
Abdomen, loins, and buttock AND	Leg	Groin-trochanter-gluteal sulcus
Right AND	Left	Midline

**Iliac, other pelvic, abdominal or intrathoracic lymph nodes are distant.** Code the removal of these nodes under the data item, Surgery of Other Regional Site(s), Distant Site(s), or Distant Node(s).

**Codes**

- 0 No regional lymph nodes removed
- 1 Sentinel node, NOS

A sentinel node is the first node to receive drainage from a primary tumor. It is identified by an injection of a dye or radio label at the site of the primary tumor

- 2 Regional lymph nodes removed, NOS
- 9 Unknown; not stated; death certificate **only**

**NUMBER OF REGIONAL LYMPH NODES EXAMINED**

**Codes**

- 00 No regional lymph nodes removed

- 01 One regional lymph node removed
- 02 Two regional lymph nodes removed
- ..
- 90 Ninety or more regional lymph nodes removed
- 95 No regional lymph node(s) removed but aspiration of regional lymph node(s) was performed
- 96 Regional lymph node removal documented as a sampling and number of lymph nodes unknown/not stated
- 97 Regional lymph node removal documented as dissection and number of lymph nodes unknown/not stated
- 98 Regional lymph nodes surgically removed but number of lymph nodes unknown/not stated and not documented as sampling or dissection
- 99 Unknown; not stated; death certificate **only**

**SURGERY OF OTHER REGIONAL SITE(S), DISTANT SITE(S) OR DISTANT LYMPH NODE(S)**

**Codes**

- 0 None; no surgery to other regional or distant sites
- 1 Surgery to other site(s) or node(s), NOS; unknown if regional or distant
  - 2 Other regional sites
  - 3 Distant lymph node(s)
  - 4 Distant site(s)
  - 5 >Combination of 4 **with** 2 or 3
- 9 Unknown; not stated; death certificate **only**

**RECONSTRUCTION/RESTORATION - FIRST COURSE**

**Codes**

- 0 No reconstruction/restoration
- 1 Pedicle flap, free flap, skin graft, NOS

- 8 Reconstruction/restoration recommended, unknown if performed
- 9 Unknown; not stated; death certificate **only**

**BREAST  
C50.0-C50.9**

**SURGICAL APPROACH**

**Codes**

- 0 None; no cancer-directed surgery of primary site
- 4 Open approach, NOS
  - 5 **without dye or needle localization**
  - 6 **with dye or needle localization**
- 9 Death certificate **only**

**SURGERY OF PRIMARY SITE**

**Codes**

- 00 None; no cancer-directed surgery of primary site

Procedures coded as 10-17 remove the gross primary tumor and some of the breast tissue (breast conserving or preserving). There may be microscopic residual tumor.

- 10 Partial mastectomy, NOS; less than total mastectomy, NOS
  - 11 Nipple resection
  - 12 Lumpectomy or excisional biopsy
  - 13 Reexcision of the biopsy site (usually for gross or microscopic residual disease)
  - 14 Wedge resection
  - 15 Quadrantectomy
  - 16 Segmental mastectomy

17 Tylectomy

30 Subcutaneous mastectomy

A subcutaneous mastectomy is the removal of breast tissue without the nipple and areolar complex or overlying skin. **This procedure is rarely performed to treat malignancies.**

40 Total (simple) mastectomy, NOS

41 **without** removal of uninvolved contralateral breast

42 **with** removal of uninvolved contralateral breast

A simple mastectomy removes all breast tissue, the nipple, and areolar complex. An axillary dissection is not done. For single primaries only, code removal of involved contralateral breast under the data item Surgery of Other Regional Site(s), Distant Site(s), or Distant Lymph Node(s).

50 Modified radical mastectomy

51 **without** removal of uninvolved contralateral breast

52 **with** removal of uninvolved contralateral breast

Removes all breast tissue, the nipple, the areolar complex, and variable amounts of breast skin. The procedure involves an en bloc resection of the axilla. The specimen may or may not include a portion of the pectoralis major muscle. Includes an en bloc axillary dissection. For single primaries only, code removal of involved contralateral breast under the data item Surgery of Other Regional Site(s), Distant Site(s), or Distant Lymph Node(s).

60 Radical mastectomy, NOS

61 **without** removal of uninvolved contralateral breast

62 **with** removal of uninvolved contralateral breast

Removal of breast tissue, nipple, areolar complex, a variable amount of skin, pectoralis minor, and pectoralis major. Includes an en bloc axillary dissection. For single primaries only, code removal of involved contralateral breast under the data item Surgery of Other Regional Site(s), Distant Site(s), or Distant Lymph Node(s).

70 Extended radical mastectomy

71 **without** removal of uninvolved contralateral breast



72 **with** removal of uninvolved contralateral breast

Removal of breast tissue, nipple, areolar complex, variable amounts of skin, pectoralis minor, and pectoralis major. Includes removal of internal mammary nodes and an en bloc axillary dissection. For single primaries only, code removal of involved contralateral breast under the data item Surgery of Other Regional Site(s), Distant Site(s), or Distant Lymph Node(s).

80 Mastectomy, NOS

90 Surgery, NOS

99

Unknown if cancer-directed surgery performed; death certificate **only**

**SURGICAL MARGINS**

Since the codes are hierarchical, if more than one code is applicable, use the numerically higher code. For example, if multiple margins are microscopically and macroscopically involved, code the macroscopic involvement(s).

Multiple margins are two separate margins, both of which are microscopically involved with tumor. **Do not code** multiple margins (4) if **one margin** has multiple foci of tumor.

**Codes**

0 All margins grossly and microscopically negative

1 Margins involved, NOS

2 Microscopic involvement

3 Single margin

4 Multiple margins

5 Macroscopic involvement

7 Margins not documented

8 No cancer-directed surgery of primary site

9 Unknown whether margins were involved or negative; death certificate **only**

**SCOPE OF REGIONAL LYMPH NODE SURGERY**

**Codes**

- 0 No regional lymph nodes removed
- 1 Sentinel lymph node(s) removed

A sentinel node is the first node to receive drainage from a primary tumor. It is identified by an injection of a dye or radio label at the site of the primary tumor

- 2 Regional lymph node(s) removed, NOS; axillary, NOS (Levels I, II, or III lymph nodes) Intramammary, NOS
- 3 Combination of 1 and 2
- 4 Internal mammary
- 5 Combination of 4 **with** any of 1-3
- 9 Unknown; not stated; death certificate **only**

#### NUMBER OF REGIONAL LYMPH NODES EXAMINED

##### Codes

- 00 No regional lymph nodes removed
- 01 One regional lymph node removed
- 02 Two regional lymph nodes removed
- ..
- 90 Ninety or more regional lymph nodes removed
- 95 No regional lymph node(s) removed but aspiration of regional lymph node(s) was performed
- 96 Regional lymph node removal documented as a sampling and number of lymph nodes unknown/not stated
- 97 Regional lymph node removal documented as dissection and number of lymph nodes unknown/not stated
- 98 Regional lymph nodes surgically removed but number of lymph nodes unknown/not stated and not documented as sampling or dissection
- 99 Unknown; not stated; death certificate **only**

#### SURGERY OF OTHER REGIONAL SITE(S), DISTANT SITE(S) OR DISTANT LYMPH NODE(S)

**Do not code** removal of fragments or tags of muscles; removal of the pectoralis minor; the resection of pectoralis muscles, NOS; or the resection of fascia with no mention of muscle.

**Codes**

- 0 None; no surgery to other regional or distant sites
- 1 Surgery to other site(s) or node(s), NOS; unknown if regional or distant
  - 2 Other regional site(s)
  - 3 Distant lymph node(s)
  - 4 Distant site(s)
    - 5 Removal of involved contralateral breast (single primary only)
  - 6 Combination of 4 or 5 **with** 2 or 3
- 9 Unknown; not stated; death certificate **only**

**RECONSTRUCTION/RESTORATION - FIRST COURSE**

The insertion of a tissue expander is often the beginning of the reconstructive procedure.

**Codes**

- 0 No reconstruction/restoration
- 1 Reconstruction, NOS (unknown if flap)
  - 2 Implant; reconstruction **without** flap
  - 3 Reconstruction **with** flap, NOS
    - 4 Latissimus dorsi flap
    - 5 Abdominus recti flap
    - 6 Flap, NOS + implant
    - 7 Latissimus dorsi flap + implant
    - 8 Abdominus recti + implant
- 9 Unknown; not stated; death certificate **only**

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**CERVIX UTERI  
C53.0-C53.9**

## SURGICAL APPROACH

### Codes

- 0 None; no cancer-directed surgery of primary site
- 1 Vaginal, NOS
  - 2 Not assisted by endoscopy
  - 3 Assisted by colposcopy
  - 4 Assisted by laparoscopy
- 5 Open, NOS
  - 6 Not assisted by endoscopy
  - 7 Assisted by endoscopy
- 0 Unknown; not stated; death certificate **only**

## SURGERY OF PRIMARY SITE

**For invasive cancers**, dilation and curettage is coded as an incisional biopsy (02) under the data item Non-Cancer-Directed Surgery.

### Code

- 00 None; no cancer-directed surgery of primary site
- 10 Local tumor destruction, NOS (**without pathology specimen**)
  - 11 Photodynamic therapy (PDT)
  - 12 Electrocautery; fulguration (includes use of hot forceps for tumor destruction)
  - 13 Cryosurgery
  - 14 Laser
  - 15 LEEP

No specimen sent to pathology from this surgical event.

- 20 Local tumor destruction or excision, NOS (**with pathology specimen**)
  - 21 Electrocautery
  - 22 Cryosurgery

- 23 Laser
- 24 Cone biopsy **with** gross excision of lesion
- 25 Dilatation and curettage; endocervical curettage (cancer-directed for in situ only)
- 26 Excisional biopsy, NOS
- 27 Cone biopsy
- 28 LEEP
- 29 Trachelectomy; removal of cervical stump; cervicectomy

Specimen sent to pathology from this surgical event.

- 30 Total hysterectomy (simple, pan ) **without** removal of tubes and ovaries

Total hysterectomy removes both the corpus and cervix uteri and may also include a portion of vaginal cuff.

- 40 Total hysterectomy (simple, pan ) **with** removal of tubes or ovary

Total hysterectomy removes both the corpus and cervix uteri and may also include a portion of vaginal cuff.

- 50 Modified radical or extended hysterectomy; radical hysterectomy; extended radical hysterectomy

- 51 Modified radical hysterectomy

- 52 Extended hysterectomy

- 53 Radical hysterectomy; Wertheim's procedure

- 54 Extended radical hysterectomy

- 60 Hysterectomy, NOS, **with** or **without** removal of tubes and ovaries

- 61 **without** removal of tubes and ovaries

- 62 **with** removal of tubes and ovaries

- 70 Pelvic exenteration

- 71 Anterior exenteration

Includes bladder, distal ureters, and genital organs **with** their ligamentous attachments and pelvic lymph nodes. The removal of

pelvic lymph nodes is also coded under the data item Surgery of Other Regional Site(s), Distant Site(s), or Distant Lymph Node(s).

72 Posterior exenteration

Includes rectum and rectosigmoid **with** ligamentous attachments and pelvic lymph nodes. The removal of pelvic lymph nodes is also coded under the data item Surgery of Other Regional Site(s), Distant Site(s), or Distant Lymph Node(s).

73 Total exenteration

Includes removal of all pelvic contents and pelvic lymph nodes. The removal of pelvic lymph nodes is also coded under the data item Surgery of Other Regional Site(s), Distant Site(s), or Distant Lymph Node(s).

74 Extended exenteration

Includes pelvic blood vessels or bony pelvis

90 Surgery, NOS

99 Unknown if cancer-directed surgery performed; death certificate **only**

**SURGICAL MARGINS**

**Codes**

0 All margins grossly and microscopically negative

1 Margins involved, NOS

2 Microscopic involvement

5 Macroscopic involvement

7 Margins not documented

8 No cancer-directed surgery of primary site

9 Unknown whether margins were involved or negative; death certificate **only**

**SCOPE OF REGIONAL LYMPH NODE SURGERY**

<b>The regional lymph nodes are:</b>

Common iliac
External iliac
Hypogastric (obturator)
Internal iliac
Paracervical
Parametrial
Presacral
Sacral

**Codes**

- 0 No regional lymph nodes removed
- 1 Regional lymph node(s) removed, NOS
- 9 Unknown; not stated; death certificate **only**

**NUMBER OF REGIONAL LYMPH NODES EXAMINED**

**Codes**

- 00 No regional lymph nodes removed
- 01 One regional lymph node removed
- 02 Two regional lymph nodes removed
- ..
- 90 Ninety or more regional lymph nodes removed
- 95 No regional lymph node(s) removed but aspiration of regional lymph node(s) was performed
- 96 Regional lymph node removal documented as a sampling and number of lymph nodes unknown/not stated
- 97 Regional lymph node removal documented as dissection and number of lymph nodes unknown/not stated
- 98 Regional lymph nodes surgically removed but number of lymph nodes unknown/not stated and not documented as sampling or dissection
- 99 Unknown; not stated; death certificate **only**

**SURGERY OF OTHER REGIONAL SITE(S), DISTANT SITE(S) OR DISTANT LYMPH NODE(S)**

**Do not code** the incidental removal of an appendix. **Do not code** an omentectomy **if** it was the only surgery performed in addition to hysterectomy. Incidental removal is when an organ is removed for a reason unrelated to the malignancy.

**Codes**

- 0 None; no surgery to other regional or distant sites
- 1 Surgery to other site(s) or node(s), NOS; unknown if regional or distant
  - 2 Other regional site(s)
  - 3 Distant lymph node(s), NOS
    - 4 Periaortic lymph nodes
  - 5 Distant site(s)
  - 6 Combinations of 5 with 4
  - 7 Combination of 5 **with** 2 or 3
- 9 Unknown; not stated; death certificate **only**

**RECONSTRUCTION/RESTORATION - FIRST COURSE**

**Codes**

- 0 No reconstruction/restoration
- 1 Vaginal reconstruction
- 2 Urinary reconstruction
- 3 Bowel reconstruction/restoration
- 4 Combination of 3 with 1 or 2
- 8 Reconstruction/restoration recommended, unknown if performed
- 9 Unknown; not stated; death certificate **only**

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**CORPUS UTERI**

**Corpus uteri C54.0-C54.9, Uterus NOS C55.9**

**SURGICAL APPROACH**

**Codes**



- 0 None; no cancer-directed surgery of primary site
- 1 Vaginal, NOS
  - 2 Not assisted by endoscopy
  - 3 Assisted by colposcopy
  - 4 Assisted by laparoscopy
- 5 Open, NOS
  - 6 Not assisted by endoscopy
  - 7 Assisted by endoscopy
- 9 Unknown; not stated; death certificate **only**

#### SURGERY OF PRIMARY SITE

**For invasive cancers**, dilation and curettage is coded as an incisional biopsy (02) under the data item Non-Cancer-Directed Surgery.

#### Codes

- 00 None; no cancer-directed surgery of primary site
- 10 Local tumor destruction, NOS (**without pathology specimen**)
  - 11 Photodynamic therapy (PDT)
  - 12 Electrocautery; fulguration (includes use of hot forceps for tumor destruction)
  - 13 Cryosurgery
  - 14 Laser
  - 15 LEEP

No specimen sent to pathology from this surgical event.

Procedures in code 20 include but are not limited to: Cryosurgery; Electrocautery ; Excisional biopsy ; Laser ablation; Thermal ablation.

- 20 Local tumor destruction or excision, NOS; simple excision, NOS **with pathology specimen**
  - 21 Electrocautery
  - 22 Cryosurgery

- 23 Laser
- 24 Excisional biopsy
- 25 Polypectomy
- 26 Myomectomy

Specimen sent to pathology from this surgical event. Margins of resection may have microscopic involvement.

- 30 Subtotal hysterectomy/supracervical hysterectomy/fundectomy **with** or **without** removal of tube(s) and ovary(ies).
  - 31 **without** tube(s) and ovary(-ies)
  - 32 **with** tube(s) and ovary(-ies)

Cervix left in place.

- 40 Total hysterectomy (simple, pan ) **without** removal of tube(s) and ovary(-ies)

Removes both the corpus and cervix uteri. It may also include a portion of the vaginal cuff.

- 50 Total hysterectomy (simple, pan ) **with** removal of tube(s) or ovary(-ies)

Removes both the corpus and cervix uteri. It may also include a portion of the vaginal cuff.

- 60 Modified radical or extended hysterectomy; radical hysterectomy; extended radical hysterectomy

- 61 Modified radical hysterectomy
- 62 Extended hysterectomy
- 63 Radical hysterectomy; Wertheim's procedure
- 64 Extended radical hysterectomy

- 70 Hysterectomy, NOS, **with** or **without** removal of tube(s) and ovary(-ies)

- 71 **without** removal of tube(s) and ovary(-ies)=
- 72 **with** removal of tube(s) and ovary(-ies)

- 80 Pelvic exenteration

81 Anterior exenteration

Includes bladder, distal ureters, and genital organs **with** their ligamentous attachments and pelvic lymph nodes. The removal of pelvic lymph nodes is also coded under the data item Surgery of Other Regional Site(s), Distant Site(s), or Distant Lymph Node(s).

82 Posterior exenteration

Includes rectum and rectosigmoid **with** ligamentous attachments and pelvic lymph nodes. The removal of pelvic lymph nodes is also coded under the data item Surgery of Other Regional Site(s), Distant Site(s), or Distant Lymph Node(s).

83 Total exenteration

Includes removal of all pelvic contents and pelvic lymph nodes. The removal of pelvic lymph nodes is also coded under the data item Surgery of Other Regional Site(s), Distant Site(s), or Distant Lymph Node(s).

84 Extended exenteration

Includes pelvic blood vessels or bony pelvis

90 Surgery, NOS

99 Unknown if cancer-directed surgery performed; death certificate **only**

**SURGICAL MARGINS**

**Codes**

0 All margins grossly and microscopically negative

1 Margins involved, NOS

2 Microscopic involvement

5 Macroscopic involvement

7 Margins not documented

8 No cancer-directed surgery of primary site

9 Unknown whether margins were involved or negative; death certificate **only**

**SCOPE OF REGIONAL LYMPH NODE SURGERY**

**The regional lymph nodes**

<b>are:</b>
Common iliac and external iliac
Hypogastric (obturator)
Para aortic
Parametrial
Sacral

**Codes**

- 0 No regional lymph nodes removed
- 1 Regional lymph node(s) removed, NOS
  - 2 Pariaortic with or without other regional lymph nodes
- 9 Unknown; not stated; death certificate **only**

**NUMBER OF REGIONAL LYMPH NODES EXAMINED**

**Codes**

- 00 No regional lymph nodes removed
- 01 One regional lymph node removed
- 02 Two regional lymph nodes removed
- ..
- 90 Ninety or more regional lymph nodes removed
- 95 No regional lymph node(s) removed but aspiration of regional lymph node(s) was performed
- 96 Regional lymph node removal documented as a sampling and number of lymph nodes unknown/not stated
- 97 Regional lymph node removal documented as dissection and number of lymph nodes unknown/not stated
- 98 Regional lymph nodes surgically removed but number of lymph nodes unknown/not stated and not documented as sampling or dissection
- 99 Unknown; not stated; death certificate **only**

**SURGERY OF OTHER REGIONAL SITE(S), DISTANT SITE(S) OR DISTANT LYMPH NODE(S)**

**Do not code** the incidental removal of an appendix. **Do not code** an omentectomy **if** it was the only surgery performed in addition to hysterectomy. Incidental removal is when an organ is removed for a reason unrelated to the malignancy.

**Codes**

- 0 None; no surgery to other regional or distant sites
- 1 Surgery to other site(s) or node(s), NOS; unknown if regional or distant
  - 2 Other regional site(s)
  - 3 Distant lymph node(s), NOS
    - 4 Periaortic lymph nodes
  - 5 Distant site(s)
  - 6 Combinations of 5 with 4
  - 7 Combination of 5 **with** 2 or 3
- 9 Unknown; not stated; death certificate **only**

**RECONSTRUCTION/RESTORATION - FIRST COURSE**

**Codes**

- 0 No reconstruction/restoration
- 1 Vaginal reconstruction
- 2 Urinary reconstruction
- 3 Bowel reconstruction/restoration
- 4 Combination of 3 with 1 or 2
- 8 Reconstruction/restoration recommended, unknown if performed
- 9 Unknown; not stated; death certificate **only**

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**OVARY  
C56.9**

**SURGICAL APPROACH**

**Codes**

- 0 None; no cancer-directed surgery of primary site
- 1 Endoscopy, NOS (laparoscopy)
  - 2 Not image guided
  - 3 Image guided

**Open approaches include, but are not limited to:** Low transverse abdominal incision; Vertical abdominal incision.

- 4 Open, NOS
  - 5 Not assisted by endoscopy
  - 6 Assisted by endoscopy
- 9 Unknown; not stated; death certificate **only**

**SURGERY OF PRIMARY SITE**

**Codes**

- 00 None; no cancer-directed surgery of primary site
- 10 Total removal of tumor or (single) ovary, NOS
  - 11 Resection of ovary (wedge, subtotal, or partial) **only**, NOS; unknown if hysterectomy done
    - 12 **without** hysterectomy
    - 13 **with** hysterectomy
  - 14 Unilateral (salpingo ) oophorectomy; unknown if hysterectomy done
    - 15 **withouthysterectomy**
    - 16 **withhysterectomy**
- 20 Bilateral (salpingo ) oophorectomy; unknown if hysterectomy done
  - 21 **without** hysterectomy
  - 22 **with** hysterectomy
- 30 Unilateral or bilateral (salpingo ) oophorectomy **with omentectomy**, NOS; partial or total; unknown if hysterectomy done

- 31 **without** hysterectomy
- 32 **with** hysterectomy
- 60 Debulking; cytoreductive surgery, NOS
  - 61 **with** colon (including appendix) and/or small intestine resection (not incidental)
  - 62 **with** partial resection of urinary tract (not incidental)
  - 63 Combination of 61 and 62

Debulking is a partial removal of the tumor mass and can involve the removal of multiple organ sites. It may include removal of ovaries and/or the uterus (a hysterectomy). The pathology report may or may not identify ovarian tissue. A debulking is usually followed by another treatment modality such as chemotherapy.
- 70 Pelvic exenteration, NOS
  - 71 Anterior
 

Includes bladder, distal ureters, and genital organs **with** their ligamentous attachments and pelvic lymph nodes. The removal of pelvic lymph nodes is also coded under the data item Surgery of Other Regional Site(s), Distant Site(s), or Distant Lymph Node(s).
  - 72 Posterior
 

Includes rectum and rectosigmoid **with** ligamentous attachments and pelvic lymph nodes. The removal of pelvic lymph nodes is also coded under the data item Surgery of Other Regional Site(s), Distant Site(s), or Distant Lymph Node(s).
  - 73 Total
 

Includes removal of all pelvic contents and pelvic lymph nodes. The removal of pelvic lymph nodes is also coded under the data item Surgery of Other Regional Site(s), Distant Site(s), or Distant Lymph Node(s).
  - 74 Extended
 

Includes pelvic blood vessels or bony pelvis.
- 80 (Salpingo ) oophorectomy, NOS
- 90 Surgery, NOS
- 99 Unknown if cancer-directed surgery performed; death

certificate **only**

### **SURGICAL MARGINS**

For this site only, this field will describe the residual tumor burden after cancer-directed surgery.

#### **Codes**

- 0 No visible residual tumor
- 1 Visible residual tumor, NOS
  - 2 Visible residual tumor, cumulative maximum of less than 1 cm
  - 3 Visible residual tumor, cumulative maximum of at least 1 cm, not more than 2 cm
  - 4 Visible residual tumor, cumulative maximum of more than 2 cm
- 8 No cancer directed surgery of primary site
- 9 Unknown whether visible residual tumor was present; death certificate **only**

### **SCOPE OF REGIONAL LYMPH NODE SURGERY**

<b>The regional lymph nodes are:</b>
Common iliac External iliac Hypogastric (obturator) Inguinal Lateral sacral Paraaortic Pelvic, NOS Retroperitoneal, NOS

#### **Codes**

- 0 No regional lymph nodes removed
- 1 Regional lymph node(s) removed, NOS
- 9 Unknown; not stated; death certificate **only**



**NUMBER OF REGIONAL LYMPH NODES EXAMINED**

**Codes**

- 00 No regional lymph nodes removed
- 01 One regional lymph node removed
- 02 Two regional lymph nodes removed
- ..
- 90 Ninety or more regional lymph nodes removed
- 95 No regional lymph node(s) removed but aspiration of regional lymph node(s) was performed
- 96 Regional lymph node removal documented as a sampling and number of lymph nodes unknown/not stated
- 97 Regional lymph node removal documented as dissection and number of lymph nodes unknown/not stated
- 98 Regional lymph nodes surgically removed but number of lymph nodes unknown/not stated and not documented as sampling or dissection
- 99 Unknown; not stated; death certificate **only**

**SURGERY OF OTHER REGIONAL SITE(S), DISTANT SITE(S) OR DISTANT LYMPH NODE(S)**

**Do not code** an incidental removal of the appendix. Incidental removal is when an organ is removed for a reason unrelated to the malignancy.

**Codes**

- 0 None; no surgery to other regional or distant sites
- 1 Surgery to other site(s) or node(s), NOS; unknown if regional or distant
  - 2 Other regional site(s)
  - 3 Distant lymph node(s)
  - 4 Distant site(s)
  - 5 Combination of 4 **with** 2 or 3
- 9 Unknown; not stated; death certificate **only**

**RECONSTRUCTION/RESTORATION - FIRST COURSE**

**Codes**

- 0 No reconstruction/restoration
  - 1 Urinary reconstruction
  - 2 Bowel reconstruction/restoration
  - 3 Combination of 1 and 2
  - 8 Reconstruction/restoration recommended, unknown if performed
  - 9 Unknown; not stated; death certificate **only**
- 

**PROSTATE  
C61.9**

**SURGICAL APPROACH**

**Codes**

- 0 None; no cancer-directed surgery of primary site
- 1 Endoscopy, NOS (transurethral)
- 2 Laparoscopic, NOS
- 3 Open, NOS
  - 4 Suprapubic
  - 5 Perineal
  - 7 Trans-sacral
  - 8 Retropubic

Code the approach for radical prostatectomy as retropubic unless otherwise specified.

- 9 Unknown; not stated; death certificate **only**

**SURGERY OF PRIMARY SITE**

**Codes**

- 00 None; no cancer-directed surgery of primary site
- 10 Local tumor destruction or excision, NOS
  - 11 Transurethral resection (TURP), NOS
    - 12 TURP cancer is incidental finding during surgery for benign disease
    - 13 TURP patient has suspected/known cancer
  - 14 Cryoprostectomy
  - 15 Laser
  - 16 Hyperthermia
  - 17 Other method of local resection or destruction
- 30 Subtotal or simple prostatectomy, NOS
 

A segmental resection or enucleation leaving the capsule intact.
- 40 Less than total prostatectomy, NOS
 

An enucleation using an instrument such as a Vaportrode which may leave all or part of the capsule intact.
- 50 Radical prostatectomy, NOS; total prostatectomy, NOS
 

Excised prostate, prostatic capsule, ejaculatory ducts, seminal vesicle(s) and may include a narrow cuff of bladder neck.
- 70 Prostatectomy **with** en bloc resection of other organs; pelvic exenteration
 

Surgeries coded 70 are any prostatectomy **with** an en bloc resection of any other organs. The other organs may be partially or totally removed. **En bloc resection** is the removal of organs in one piece at one time. Procedures that may involve an en bloc resection include, but are not limited to: cystoprostatectomy, radical cystectomy and prostatectomy.
- 80 Prostatectomy, NOS
- 90 Surgery, NOS
- 99 Unknown if cancer-directed surgery performed; death certificate **only**

#### SURGICAL MARGINS

The codes are hierarchical, if more than one code is applicable, use the numerically higher code. For example, if multiple margins are microscopically and macroscopically involved, code the macroscopic involvement (5).

Multiple margins are two separate margins, both of which are microscopically involved with tumor. **DO NOT CODE** multiple margins (4) if one margin has multiple foci of tumor.

**Codes**

- 0 All margins grossly and microscopically negative
- 1 Margin(s) involved, NOS
  - 2 Microscopic involvement
    - 3 Single margin
    - 4 Multiple margins
  - 5 Macroscopic involvement, NOS
- 7 Margins not documented (TURP)
- 8 No cancer-directed surgery of primary site
- 9 Unknown whether margins were involved or negative; death certificate **only**

**SCOPE OF REGIONAL LYMPH NODE SURGERY**

<b>The regional lymph nodes are:</b>
Hypogastric Iliac, NOS (internal and external) Obturator Pelvic, NOS Periprostatic Sacral, NOS (lateral presacral, promontory [Gerota's] or NOS)

**Codes**

- 0 No regional lymph nodes removed
- 1 Regional lymph node(s) removed, NOS
- 9 Unknown; not stated; death certificate **only**

**NUMBER OF REGIONAL LYMPH NODES EXAMINED**

**Codes**

- 00 No regional lymph nodes removed
- 01 One regional lymph node removed

- 02 Two regional lymph nodes removed
- ..
- 90 Ninety or more regional lymph nodes removed
- 95 No regional lymph node(s) removed but aspiration of regional lymph node(s) was performed
- 96 Regional lymph node removal documented as a sampling and number of lymph nodes unknown/not stated
- 97 Regional lymph node removal documented as dissection and number of lymph nodes unknown/not stated
- 98 Regional lymph nodes surgically removed but number of lymph nodes unknown/not stated and not documented as sampling or dissection
- 99 Unknown; not stated; death certificate **only**

**SURGERY OF OTHER REGIONAL SITE(S), DISTANT SITE(S) OR DISTANT LYMPH NODE(S)**

**DO NOT CODE** orchiectomy. For prostate primaries, code orchiectomies under Hormone Therapy.

The most commonly removed distant lymph nodes are: aortic (para-aortic, peri-aortic, lumbar), common iliac, inguinal, superficial inguinal (femoral), supraclavicular, cervical, and scalene.

**Codes**

- 0 None; no surgery to other regional or distant sites
- 1 Surgery to other site(s) or node(s), NOS; unknown if regional or distant
  - 2 Other regional site(s)
  - 3 Distant lymph node(s)
  - 4 Distant site(s)
  - 5 Combination of 4 **with** 2 or 3
- 9 Unknown; not stated; death certificate **only**

**RECONSTRUCTION/RESTORATION - FIRST COURSE**

**Codes**

- 0 No reconstruction/restoration
  - 1 Reconstruction/restoration, NOS
    - 2 Collagen injection for incontinence
    - 3 Penile prosthesis
    - 4 Artificial urinary sphincter
    - 5 Combinations of 4 **with** 2 or 3
  - 9 Unknown; not stated; death certificate **only**
- 

**TESTIS**  
**C62.0-C62.9**

**SURGICAL APPROACH**

**Codes**

- 0 None; no cancer-directed surgery of primary site
- 4 Open, NOS
  - 5 Scrotal
  - 6 Inguinal
- 9 Death certificate **only**

**SURGERY OF PRIMARY SITE**

**Codes**

- 00 None; no cancer-directed surgery of primary site
- 10 Local or partial excision of testicle
- 30 Excision of testicle, NOS **without** cord
- 40 Excision of testicle, NOS **with** cord/or cord not mentioned
- 80 Orchiectomy, NOS
- 90 Surgery, NOS
- 99 Unknown if cancer-directed surgery performed; death

certificate **only**

**SURGICAL MARGINS**

**Codes**

- 0 All margins grossly and microscopically negative
- 1 Margins involved, NOS
  - 2 Microscopic involvement
  - 5 Macroscopic involvement
- 7 Margins not documented
- 8 No cancer directed surgery of primary site
- 9 Unknown whether margins were involved or negative; death certificate **only**

**SCOPE OF REGIONAL LYMPH NODE SURGERY**

<p><b>The regional lymph nodes are:</b></p> <p>Interaortocaval                  Paraaortic (Periaortic)                  Paracaval                  Preaortic                  Precaval                  Retroaortic                  Retrocaval</p>
--

**Codes**

- 0 No regional lymph nodes removed
- 1 Regional lymph node(s) removed, NOS; not stated if bilateral or unilateral
  - 2 Unilateral regional lymph nodes
  - 3 Bilateral regional lymph nodes
- 9 Unknown; not stated; death certificate **only**

**NUMBER OF REGIONAL LYMPH NODES EXAMINED**

**Codes**

- 00 No regional lymph nodes removed
- 01 One regional lymph node removed
- 02 Two regional lymph nodes removed
- ..
- 90 Ninety or more regional lymph nodes removed
- 95 No regional lymph node(s) removed but aspiration of regional lymph node(s) was performed
- 96 Regional lymph node removal documented as a sampling and number of lymph nodes unknown/not stated
- 97 Regional lymph node removal documented as dissection and number of lymph nodes unknown/not stated
- 98 Regional lymph nodes surgically removed but number of lymph nodes unknown/not stated and not documented as sampling or dissection
- 99 Unknown; not stated; death certificate **only**

**SURGERY OF OTHER REGIONAL SITE(S), DISTANT SITE(S) OR DISTANT LYMPH NODE(S)**

**Codes**

- 0 None; no surgery to other regional or distant sites
- 1 Surgery to other site(s) or node(s), NOS; unknown if regional or distant
  - 2 Other regional sites
  - 3 Distant lymph node(s)
  - 4 Distant site(s)
  - 5 Combination of 4 **with** 2 or 3
- 9 Unknown; not stated; death certificate **only**

**RECONSTRUCTION/RESTORATION - FIRST COURSE**

**Codes**



- 0 No reconstruction/restoration
  - 1 Testicular implant
  - 8 Reconstruction/restoration recommended, unknown if performed
  - 9 Unknown; not stated; death certificate **only**
- 

**KIDNEY, RENAL PELVIS & URETER**  
**Kidney C64.9, Renal Pelvis C65.9, Ureter C66.9**

**SURGICAL APPROACH**

**Codes**

- 0 None; no cancer directed surgery of primary site
- 1 Endoscopy, NOS
  - 2 Not image guided
  - 3 Image guided
- 4 Open, NOS
  - 5 Not assisted by endoscopy
  - 6 Assisted by endoscopy
- 9 Unknown; not stated; death certificate **only**

**SURGERY OF PRIMARY SITE**

**Codes**

- 00 None; no cancer-directed surgery of primary site
- 10 Local tumor destruction, NOS (**without pathology specimen**)
  - 11 Photodynamic therapy (PDT)
  - 12 Electrocautery; fulguration (includes use of hot forceps for tumor destruction)
  - 13 Cryosurgery
  - 14 Laser

No specimen sent to pathology from this surgical event.

20 Local tumor excision, NOS (**with pathology specimen**)

- 21 Photodynamic therapy (PDT)
- 22 Electrocautery
- 23 Cryosurgery
- 24 Laser ablation
- 25 Laser excision
- 26 Polypectomy
- 27 Excisional biopsy

Specimen sent to pathology from this surgical event.

**Procedures coded 30 include, but are not limited to:** Cryosurgery; Electrocautery; Excisional biopsy; Laser; Segmental resection; Thermal ablation; Wedge resection.

30 Partial or subtotal nephrectomy (kidney or renal pelvis) or partial ureterectomy (ureter)

Margins of resection are grossly negative. There may be microscopic involvement

40 Complete/total/simple nephrectomy for kidney parenchyma  
Nephroureterectomy

Includes bladder cuff for renal pelvis or ureter

50 Radical nephrectomy

May include removal of a portion of vena cava, adrenal gland(s), Gerota's fascia, perinephric fat, or partial/total ureter

70 Any nephrectomy (simple, subtotal, complete, partial, simple, total, radical) **plus** an en bloc resection of other organ(s) (colon, bladder)

The other organs, such as colon or bladder, may be partially or totally removed.

80 Nephrectomy, NOS

- Ureterectomy, NOS
- 90 Surgery, NOS
- 99 Unknown if cancer-directed surgery performed; death certificate **only**

**SURGICAL MARGINS**

**Codes**

- 0 All margins grossly and microscopically negative
- 1 Margins involved, NOS
  - 2 Microscopic involvement
  - 5 Macroscopic involvement
- 7 Margins not documented
- 8 No cancer-directed surgery of primary site
- 9 Unknown whether margins were involved or negative; death certificate **only**

**SCOPE OF REGIONAL LYMPH NODE SURGERY**

<b>The regional lymph nodes are</b>	
Kidney	Aortic (para-aortic, periaortic, lateral aortic) Paracaval Renal hilar Retroperitoneal, NOS
Renal pelvis	Aortic Paracaval Renal hilar Retroperitoneal, NOS
Ureter	Iliac (common, internal [hypogastric], external) Paracaval Pelvic, NOS Periureteral Renal hilar

**Codes**

- 0 No regional lymph nodes removed
- 1 Regional lymph node(s) removed, NOS; not stated if bilateral or unilateral
  - 2 Unilateral regional lymph nodes
  - 3 Bilateral regional lymph nodes
- 9 Unknown; not stated; death certificate **only**

**NUMBER OF REGIONAL LYMPH NODES EXAMINED**

**Codes**

- 00 No regional lymph nodes removed
- 01 One regional lymph node removed
- 02 Two regional lymph nodes removed
- ..
- 90 Ninety or more regional lymph nodes removed
- 95 No regional lymph node(s) removed but aspiration of regional lymph node(s) was performed
- 96 Regional lymph node removal documented as a sampling and number of lymph nodes unknown/not stated
- 97 Regional lymph node removal documented as dissection and number of lymph nodes unknown/not stated
- 98 Regional lymph nodes surgically removed but number of lymph nodes unknown/not stated and not documented as sampling or dissection
- 99 Unknown; not stated; death certificate **only**

**SURGERY OF OTHER REGIONAL SITE(S), DISTANT SITE(S) OR DISTANT LYMPH NODE(S)**

**DO NOT CODE** the incidental removal of ribs during the operative approach.

**Codes**

- 0 None; no surgery to other regional or distant sites
- 1 Surgery to other site(s) or node(s), NOS; unknown if

regional or distant

- 2 Other regional site(s)
- 3 Distant lymph node(s)
- 4 Distant site(s)
- 5 Combination of 4 **with** 2 or 3
- 9 Unknown; not stated; death certificate **only**

#### **RECONSTRUCTION/RESTORATION - FIRST COURSE**

##### **Codes**

- 0 No reconstruction/restoration
  - 1 Kidney transplant (primary site)
  - 8 Reconstruction/restoration recommended, unknown if performed
  - 9 Unknown; not stated; death certificate **only**
- 

#### **BLADDER C67.0-C67.9**

#### **SURGICAL APPROACH**

##### **Codes**

- 0 None; no cancer-directed surgery of primary site
- 1 Endoscopy, NOS
  - 2 Cystoscopy (TURB)
  - 3 Laparoscopy
- 4 Open, NOS
  - 5 Not assisted by endoscopy (laparoscopy)
  - 6 Assisted by endoscopy (laparoscopy)
- 9 Unknown; not stated; death certificate **only**

## SURGERY OF PRIMARY SITE

### Codes

- 00 None; no cancer-directed surgery of primary site
- 10 Local tumor destruction, NOS (**without pathology specimen**)
  - 11 Photodynamic therapy (PDT)
  - 12 Electrocautery; fulguration (includes use of hot forceps for tumor destruction)
  - 13 Cryosurgery
  - 14 Laser

No specimen sent to pathology from this surgical event.

- 20 Local tumor excision, NOS **with pathology specimen**)
  - 21 Photodynamic therapy (PDT)
  - 22 Electrocautery
  - 23 Cryosurgery
  - 24 Laser ablation
  - 25 Laser excision
  - 26 Polypectomy
  - 27 Excisional biopsy (TURB)

Specimen sent to pathology from this surgical event.

- 30 Partial cystectomy
- 50 Simple/total/complete cystectomy
- 60 Radical cystectomy (male only)

This code is used only for men. It involves the removal of bladder and prostate, with or without urethrectomy. If a radical cystectomy is the procedure name for a woman, use code 71.

- 70 Pelvic exenteration, NOS
  - 71 Radical cystectomy (female only); anterior exenteration

A radical cystectomy in a female includes removal of bladder, uterus, ovaries, entire vaginal wall and entire urethra.

72 Posterior exenteration

73 Total exenteration

Includes removal of all pelvic contents and pelvic lymph nodes.

74 Extended exenteration

Includes pelvic blood vessels or bony pelvis.

80 Cystectomy, NOS

90 Surgery, NOS

99 Unknown if cancer-directed surgery performed; death certificate **only**

#### **SURGICAL MARGINS**

##### **Codes**

0 All margins grossly and microscopically negative

1 Margins involved, NOS

2 Microscopic involvement

5 Macroscopic involvement

7 Margins not documented

8 No cancer-directed surgery of primary site

9 Unknown whether margins were involved or negative; death certificate **only**

#### **SCOPE OF REGIONAL LYMPH NODE SURGERY**

##### **The regional lymph nodes are:**

Hypogastric  
 Iliac (internal, external, NOS)  
 Obturator  
 Pelvic, NOS  
 Perivesical  
 Presacral

Sacral (lateral, sacral promontory [Gerota's])
---

**Codes**

- 0 No regional lymph nodes removed
- 1 Regional lymph node(s) removed, NOS; not stated if bilateral or unilateral
  - 2 Unilateral regional lymph nodes
  - 3 Bilateral regional lymph nodes
- 9 Unknown; not stated; death certificate **only**

**NUMBER OF REGIONAL LYMPH NODES EXAMINED**

**Codes**

- 00 No regional lymph nodes removed
- 01 One regional lymph node removed
- 02 Two regional lymph nodes removed
- ..
- 90 Ninety or more regional lymph nodes removed
- 95 No regional lymph node(s) removed but aspiration of regional lymph node(s) was performed
- 96 Regional lymph node removal documented as a sampling and number of lymph nodes unknown/not stated
- 97 Regional lymph node removal documented as dissection and number of lymph nodes unknown/not stated
- 98 Regional lymph nodes surgically removed but number of lymph nodes unknown/not stated and not documented as sampling or dissection
- 99 Unknown; not stated; death certificate **only**

**SURGERY OF OTHER REGIONAL SITE(S), DISTANT SITE(S) OR DISTANT LYMPH NODE(S)**

**DO NOT CODE** the partial or total removal of a ureter during a cystectomy.



**Codes**

- 0 None; no surgery to other regional or distant sites
- 1 Surgery to other site(s) or node(s), NOS; unknown if regional or distant
  - 2 Other regional site(s)
  - 3 Distant lymph node(s)
  - 4 Distant site(s)
  - 5 Combination of 4 **with** 2 or 3
- 9 Unknown; not stated; death certificate **only**

**RECONSTRUCTION/RESTORATION - FIRST COURSE**

**Codes**

- 0 No reconstruction/restoration
- 1 Conduit diversion
- 2 Continent reservoir (a bladder substitute)
 

**Types of continent reservoirs include, but are not limited to:** Hemi Kock; Ileal reservoir; Ileocecal reservoir; Indiana or Mainz pouch; Koch; Studer pouch; W shaped ileoneobladder by Hautmann.
- 8 Reconstruction/restoration recommended, unknown if performed
- 9 Unknown; not stated; death certificate **only**

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**BRAIN & OTHER PARTS OF CENTRAL NERVOUS SYSTEM**  
**Meninges C70.0-C70.9, Brain C71.0-C71.9, Other Parts of Central Nervous System C72.0-C72.9**

**SURGICAL APPROACH**

**Codes**

- 0 None; no cancer-directed surgery of primary site
- 4 Open

9 Unknown; not stated; death certificate **only**

#### **SURGERY OF PRIMARY SITE**

##### **Codes**

00 None; no cancer-directed surgery of primary site

10 Local tumor destruction

20 Excision of tumor, lesion, or mass

21 Subtotal resection, NOS

22 Partial resection

23 Debulking

30 Excision of tumor, lesion, or mass, NOS

31 Total resection

32 Gross resection

40 Partial resection, NOS

41 Partial lobe

42 Partial meninges

43 Partial nerve(s)

50 Total resection (lobectomy of brain)

60 Radical resection

Resection of primary site plus partial or total removal of surrounding organs/tissue

90 Surgery, NOS

99 Unknown if cancer-directed surgery performed; death certificate **only**

#### **SURGICAL MARGINS**

##### **Codes**

0 All margins grossly and microscopically negative

1 Margins involved, NOS

- 2 Microscopic involvement
- 5 Macroscopic involvement
- 7 Margins not documented
- 8 No cancer-directed surgery of primary site
- 9 Unknown whether margins were involved or negative; death certificate **only**

**SCOPE OF REGIONAL LYMPH NODE SURGERY**

**There are no regional lymph nodes for brain.** Code no regional lymph nodes removed (0). Central nervous system sites, however have regional lymph nodes.

**Codes**

- 0 No regional lymph nodes removed
- 1 Regional lymph node(s) removed, NOS
- 9 Unknown; not stated; death certificate **only**

**NUMBER OF REGIONAL LYMPH NODES EXAMINED**

**There are no regional lymph nodes for brain.** Code no regional lymph nodes removed (00). Central nervous system tumors, however, have regional lymph nodes.

**Codes**

- 00 No regional lymph nodes removed
- 01 One regional lymph node removed
- 02 Two regional lymph nodes removed
- ..
- 90 Ninety or more regional lymph nodes removed
- 95 No regional lymph node(s) removed but aspiration of regional lymph node(s) was performed
- 96 Regional lymph node removal documented as a sampling and number of lymph nodes unknown/not stated
- 97 Regional lymph node removal documented as dissection and number of lymph nodes unknown/not stated
- 98 Regional lymph nodes surgically removed but number

of lymph nodes unknown/not stated and not documented as sampling or dissection

99 Unknown; not stated; death certificate **only**

**SURGERY OF OTHER REGIONAL SITE(S), DISTANT SITE(S) OR DISTANT LYMPH NODE(S)**

**Codes**

- 0 None; no surgery to other regional or distant sites
- 1 Surgery to other site(s) or node(s), NOS; unknown if regional or distant
  - 2 Other regional site(s)
  - 5 Distant lymph node(s)
  - 6 Distant site(s)
  - 7 Combination of 6 **with** 2 or 5
- 9 Unknown; not stated; death certificate **only**

**RECONSTRUCTION/RESTORATION - FIRST COURSE**

**Codes**

- 9 Not applicable (There are no known reconstructive procedures for this site.)

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**THYROID GLAND  
C73.9**

**SURGICAL APPROACH**

**Codes**

- 0 None; no cancer-directed surgery of primary site
- 1 Endoscopy, NOS
  - 2 Not image guided
  - 3 Image guided

- 4 Open, NOS
  - 5 Not assisted by endoscopy
  - 6 Assisted by endoscopy
- 9 Unknown; not stated; death certificate **only**

**SURGERY OF PRIMARY SITE**

**Codes**

- 00 None; no cancer-directed surgery of primary site
- 10 Removal of less than a lobe, NOS
  - 11 Local surgical excision
  - 12 Removal of a partial lobe **only**
- 20 Lobectomy and/or isthmectomy
  - 21 Lobectomy **only**
  - 22 Isthmectomy **only**
  - 23 Lobectomy **with** isthmus
- 30 Removal of a lobe and partial removal of the contralateral lobe
- 40 Subtotal or near total thyroidectomy
- 50 Total thyroidectomy
- 80 Thyroidectomy, NOS
- 90 Surgery, NOS
- 99 Unknown if cancer-directed surgery performed; death certificate **only**

**SURGICAL MARGINS**

**Codes**

- 0 All margins grossly and microscopically negative
- 1 Margins involved, NOS
  - 2 Microscopic involvement
  - 5 Macroscopic involvement

- 7 Margins not documented
- 8 No cancer-directed surgery of primary site
- 9 Unknown whether margins were involved or negative; death certificate **only**

#### SCOPE OF REGIONAL LYMPH NODE SURGERY

The regional lymph nodes are the cervical and upper mediastinal lymph nodes.

**Terminology of neck dissection** (Robbins et al. 19): A radical neck dissection includes the removal of all ipsilateral cervical lymph node groups, i.e., lymph nodes from levels I through V (submental, submandibular, cranial jugular, medial jugular, caudal jugular, dorsal cervical nodes along the accessory nerve, and supraclavicular), and removal of the spinal accessory nerve, internal jugular vein and sternocleidomastoid muscle. In a modified radical neck dissection the same lymph nodes are removed as in a radical neck dissection; however, one or more non lymphatic structures are preserved. A selective neck dissection is a neck dissection with preservation of one or more lymph nodes group routinely removed in radical neck dissection.

#### Codes

- 0 No regional lymph nodes removed
- 1 Regional lymph node(s) removed, NOS
- 2 Neck dissection, NOS
  - 3 Selective, limited; nodal sampling; "berry picking"
  - 4 Modified/modified radical
  - 5 Radical
- 9 Unknown; not stated; death certificate **only**

#### NUMBER OF REGIONAL LYMPH NODES EXAMINED

#### Codes

- 00 No regional lymph nodes removed
- 01 One regional lymph node removed
- 02 Two regional lymph nodes removed
- ..
- 90 Ninety or more regional lymph nodes removed
- 95 No regional lymph node(s) removed but aspiration of regional lymph node(s) was performed
- 96 Regional lymph node removal documented as a

- sampling and number of lymph nodes unknown/not stated
- 97 Regional lymph node removal documented as dissection and number of lymph nodes unknown/not stated
  - 98 Regional lymph nodes surgically removed but number of lymph nodes unknown/not stated and not documented as sampling or dissection
  - 99 Unknown; not stated; death certificate **only**

**SURGERY OF OTHER REGIONAL SITE(S), DISTANT SITE(S) OR DISTANT LYMPH NODE(S)**

**Codes**

- 0 None; no surgery to other regional or distant sites
- 1 Surgery to other site(s) or node(s), NOS; unknown if regional or distant
  - 2 Other regional site(s)
  - 3 Distant lymph node(s)
  - 4 Distant site(s)
  - 5 Combination of 4 **with** 2 or 3
- 9 Unknown; not stated; death certificate **only**

**RECONSTRUCTION/RESTORATION - FIRST COURSE**

**Codes**

- 9 Not applicable (There are no known reconstructive procedures for this site.)

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**ALL OTHER SITES**

**C14.1-C14.8, C17.0-C17.9, C23.9, C24.0-C24.9, C26.0-C26.9, C30.0-C30.1, C31.0-C31.9, C33.9, C37.9, C38.0-C38.8, C39.0-C39.9, C42.0-C42.1, C42.3-C42.4, C48.0-C48.8, C51.0-C51.9, C52.9, C57.0-C57.9, C58.9, C60.0-C60.9, C63.0-C63.9, C68.0-C69.9, C74.0-C76.8, C80.9**

**SURGICAL APPROACH**

**Codes**

- 0 None; no cancer-directed surgery of primary site
- 1 Endoscopy, NOS
  - 2 Not image guided
  - 3 Image guided
- 4 Open, NOS
  - 5 Not assisted by endoscopy
  - 6 Assisted by endoscopy
- 9 Unknown; not stated; death certificate **only**

**SURGERY OF PRIMARY SITE**

**Codes**

- 00 None; no cancer-directed surgery of primary site
  - 10 Local tumor destruction, NOS (**without pathology specimen**)
    - 11 Photodynamic therapy (PDT)
    - 12 Electrocautery; fulguration
    - 13 Cryosurgery
    - 14 Laser
- No specimen sent to pathology from this surgical event.
- 20 Local tumor excision, NOS (**with pathology specimen**)
    - 21 Photodynamic therapy (PDT)
    - 22 Electrocautery
    - 23 Cryosurgery
    - 24 Laser ablation
    - 25 Laser excision
    - 26 Polypectomy



27 Excisional biopsy

Specimen sent to pathology from this surgical event.

30 Simple/partial surgical removal of primary site

40 Total surgical removal of primary site

50 Surgery stated to be "debulking"

60 Radical surgery

Partial or total removal of the primary site **with** an en bloc resection (partial or total removal) of other organs.

90 Surgery, NOS

99 Unknown if cancer-directed surgery performed; death certificate **only**

**SURGICAL MARGINS**

**Codes**

0 All margins grossly and microscopically negative

1 Margins involved, NOS

2 Microscopic involvement

5 Macroscopic involvement

7 Margins not documented

8 No cancer-directed surgery of primary site

9 Unknown whether margins were involved or negative; death certificate **only**

**SCOPE OF REGIONAL LYMPH NODE SURGERY**

**Codes**

0 No regional lymph nodes removed

1 Regional lymph node(s) removed, NOS

9 Unknown; not stated; death certificate **only**

**NUMBER OF REGIONAL LYMPH NODES EXAMINED**

**Codes**

- 00 No regional lymph nodes removed
- 01 One regional lymph node removed
- 02 Two regional lymph nodes removed
- ..
- 90 Ninety or more regional lymph nodes removed
- 95 No regional lymph node(s) removed but aspiration of regional lymph node(s) was performed
- 96 Regional lymph node removal documented as a sampling and number of lymph nodes unknown/not stated
- 97 Regional lymph node removal documented as dissection and number of lymph nodes unknown/not stated
- 98 Regional lymph nodes surgically removed but number of lymph nodes unknown/not stated and not documented as sampling or dissection
- 99 Unknown; not stated; death certificate **only**

**SURGERY OF OTHER REGIONAL SITE(S), DISTANT SITE(S) OR DISTANT LYMPH NODE(S)**

**Codes**

- 0 None; no surgery to other regional or distant sites
- 1 Surgery to other site(s) or node(s), NOS; unknown if regional or distant
  - 2 Other regional sites
  - 3 Distant lymph node(s)
  - 4 Distant site(s)
  - 5 Combination of 4 **with** 2 or 3
- 9 Unknown; not stated; death certificate **only**

**RECONSTRUCTION/RESTORATION - FIRST COURSE**

**Codes**

- 9 At this time, reconstructive procedures are not being collected for these sites



**California Cancer Registry Volume I: Data Standards and Data Dictionary**

Source: *Cancer Reporting in California: Abstracting and Coding Procedures for Hospital-Based Cancer Reporting System Standards, Vol. I*, updated May 2008

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**Appendix Q-2 Surgery Codes  
(For Cases Diagnosed on or after January 1, 2003)**

**Index to Sites**

Oral Cavity  
Parotid & Other Unspecified Glands  
Pharynx  
Esophagus  
Stomach  
Colon  
Rectosigmoid  
Rectum  
Anus  
Liver & Intrahepatic Bile Ducts  
Pancreas  
Larynx  
Lung  
Hematopoietic/ Reticuloendothelial/Immunoproliferative Disease  
Bones, Joints & Articular Cartilage/ Peripheral Nerves/ Connective & Soft Tissue  
Spleen  
Skin  
Breast  
Cervix Uteri  
Corpus Uteri  
Ovary  
Prostrate  
Testis  
Kidney, Renal Pelvis & Ureter  
Bladder  
Brain & Other Parts of Central Nervous System  
Thyroid Gland  
Lymph Nodes  
All Other Sites

Unknown and Ill Defined Primary Sites

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**ORAL CAVITY**

**Lip C00.0-C00.9, Base of Tongue C01.9, Other Parts of Tongue C02.0-C02.9, Gum C03.0-C03.9, Floor of Mouth C04.0-C04.9, Palate C05.0-C05.9, Other Parts of Mouth C06.0-C06.9**

(Except for M-9750, 9760-9764, 9800-9820, 9826, 9831-9920, 9931-9964, 9980-9989)

**Codes**

- 00 None; no surgery of primary site; autopsy ONLY
- 10 Local tumor destruction, NOS
  - 11 Photodynamic therapy (PDT)
  - 12 Electrocautery; fulguration (includes use of hot forceps for tumor destruction)
  - 13 Cryosurgery
  - 14 Laser

**No specimen sent to pathology from surgical events 10-14.**

- 20 Local tumor excision, NOS
  - 26 Polypectomy
  - 27 Excisional biopsy

Any combination of 20 or 26-27 WITH  
[SEER Guideline: the following codes INCLUDE local tumor excision, polypectomy or excisional biopsy]

- 21 Photodynamic therapy (PDT)
- 22 Electrocautery
- 23 Cryosurgery
- 24 Laser ablation

- 25 Laser excision

**Specimen sent to pathology from surgical events 20-27.**

[SEER Guideline: Codes 20-27 include shave and wedge resection]

- 30 Wide excision, NOS
  - Code 30 includes:**
    - Hemiglossectomy

Partial glossectomy

- 40 Radical excision of tumor, NOS
    - 41 Radical excision of tumor ONLY
    - 42 Combination of 41 WITH resection in continuity with mandible (marginal, segmental, hemi-, or total resection)
    - 43 Combination of 41 WITH resection in continuity with maxilla (partial, subtotal, or total resection)
- [SEER Guideline: in continuity with or "en bloc" means that all of the tissues were removed during the same procedure, but not necessarily in a single specimen]
- Codes 40-43 include:**
- Total glossectomy
  - Radical glossectomy
- 90 Surgery, NOS
  - 99 Unknown if surgery performed; death certificate ONLY

**PAROTID AND OTHER UNSPECIFIED GLANDS**

**Parotid Gland C07.9, Major Salivary Glands C08.0-C08.9**

(Except for M-9750, 9760-9764, 9800-9820, 9826, 9831-9920, 9931-9964, 9980-9989)

**Codes**

- 00 None; no surgery of primary site; autopsy ONLY
  - 10 Local tumor destruction, NOS
    - 11 Photodynamic therapy (PDT)
    - 12 Electrocautery; fulguration (includes use of hot forceps for tumor destruction)
    - 13 Cryosurgery
    - 14 Laser
- No specimen sent to pathology from surgical events 10-14.**
- 20 Local tumor excision, NOS
    - 26 Polypectomy
    - 27 Excisional biopsy

Any combination of 20 or 26-27 WITH  
[SEER Guideline: the following codes INCLUDE local tumor excision,  
polypectomy or excisional biopsy]

21 Photodynamic therapy (PDT)

22 Electrocautery

23 Cryosurgery

24 Laser ablation

25 Laser excision

**Specimen sent to pathology from surgical events 20-27.**

30 Less than total parotidectomy, NOS; less than total removal of major  
salivary gland, NOS

31 Facial nerve spared

32 Facial nerve sacrificed

33 Superficial lobe ONLY

34 Facial nerve spared

35 Facial nerve sacrificed

36 Deep lobe (Total)

[SEER Guideline: with or without superficial lobe]

37 Facial nerve spared

38 Facial nerve sacrificed

40 Total parotidectomy, NOS; total removal of major salivary gland, NOS

41 Facial nerve spared

42 Facial nerve sacrificed

50 Radical parotidectomy, NOS; radical removal of major salivary gland,  
NOS

51 WITHOUT removal of temporal bone

52 WITH removal of temporal bone

53 WITH removal of overlying skin (requires graft or flap coverage)

80 Parotidectomy, NOS

90 Surgery, NOS

99 Unknown if surgery performed; death certificate ONLY

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**PHARYNX**

**Tonsil C09.0-C09.9, Oropharynx C10.0-C10.9, Nasopharynx C11.0-C11.9, Pyriform Sinus C12.9, Hypopharynx C13.0-C13.9, Pharynx C14.0**

(Except for M-9750, 9760-9764, 9800-9820, 9826, 9831-9920, 9931-9964, 9980-9989)

**Codes**

- 00 None; no surgery of primary site; autopsy ONLY
- 10 Local tumor destruction, NOS
  - 11 Photodynamic therapy (PDT)
  - 12 Electrocautery; fulguration (includes use of hot forceps for tumor destruction)
  - 13 Cryosurgery
  - 14 Laser
  - 15 Stripping

**No specimen sent to pathology from surgical events 10-15.**

- 20 Local tumor excision, NOS
  - 26 Polypectomy
  - 27 Excisional biopsy

Any combination of 20 or 26-27 WITH  
[SEER Guideline: the following codes INCLUDE local tumor excision, polypectomy or excisional biopsy]

  - 21 Photodynamic therapy (PDT)
  - 22 Electrocautery
  - 23 Cryosurgery
  - 24 Laser ablation
  - 25 Laser excision
  - 28 Stripping

**Specimens sent to pathology from surgical events 20-28.**

- 30 Pharyngectomy, NOS
  - 31 Limited/partial pharyngectomy; tonsillectomy, bilateral

- tonsillectomy
  - 32 Total pharyngectomy
  - 40 Pharyngectomy WITH laryngectomy OR removal of contiguous bone tissue, NOS (does NOT include total mandibular resection)  
[SEER Guideline: code 40 includes mandibulectomy (marginal, segmental, hemi-, and/or laryngectomy) NOS]  
[SEER Guideline: contiguous bone tissue refers to the mandible]
  - 41 WITH Laryngectomy (laryngopharyngectomy)
  - 42 WITH bone
  - 43 WITH both 41 and 42
  - 50 Radical pharyngectomy (includes total mandibular resection), NOS
  - 51 WITHOUT laryngectomy
  - 52 WITH laryngectomy
  - 90 Surgery, NOS
  - 99 Unknown if surgery performed; death certificate ONLY
- 

**ESOPHAGUS**  
**C15.0-C15.9**

(Except for M-9750, 9760-9764, 9800-9820, 9826, 9831-9920, 9931-9964, 9980-9989)

**Codes**

- 00 None; no surgery of primary site; autopsy ONLY
- 10 Local tumor destruction, NOS
  - 11 Photodynamic therapy (PDT)
  - 12 Electrocautery; fulguration (includes use of hot forceps for tumor destruction)
  - 13 Cryosurgery
  - 14 Laser
- No specimen sent to pathology from surgical events 10-14.**
- 20 Local tumor excision, NOS
  - 26 Polypectomy



27 Excisional biopsy

Any combination of 20 or 26-27 WITH  
[SEER Guideline: the following codes INCLUDE local tumor excision,  
polypectomy or excisional biopsy]

21 Photodynamic therapy (PDT)

22 Electrocautery

23 Cryosurgery

24 Laser ablation

25 Laser excision

**Specimen sent to pathology from surgical events 20-27.**

30 Partial esophagectomy

40 Total esophagectomy, NOS

50 Esophagectomy, NOS WITH laryngectomy and/or gastrectomy, NOS  
[SEER Guideline: esophagectomy may be partial, total, or NOS]

51 WITH laryngectomy

52 WITH gastrectomy, NOS

53 Partial gastrectomy

54 Total gastrectomy

55 Combination of 51 WITH any of 5254

80 Esophagectomy, NOS

90 Surgery, NOS

99 Unknown if surgery performed; death certificate ONLY

**STOMACH**

**C16.0-C16.9**

(Except for M-9750, 9760-9764, 9800-9820, 9826, 9831-9920, 9931-9964,  
9980-9989)

**Codes**

00 None; no surgery of primary site; autopsy ONLY

10 Local tumor destruction, NOS

- 11 Photodynamic therapy (PDT)
- 12 Electrocautery; fulguration (includes use of hot forceps for tumor destruction)
- 13 Cryosurgery
- 14 Laser

**No specimen sent to pathology from surgical events 10-14.**

- 20 Local tumor excision, NOS
- 26 Polypectomy
- 27 Excisional biopsy

Any combination of 20 or 26-27 WITH  
[SEER Guideline: the following codes INCLUDE local tumor excision, polypectomy or excisional biopsy]

- 21 Photodynamic therapy (PDT)
- 22 Electrocautery
- 23 Cryosurgery
- 24 Laser ablation
- 25 Laser excision

**Specimen sent to pathology from surgical events 20-27.**

- 30 Gastrectomy, NOS (partial, subtotal, hemi-)
- 31 Antrectomy, lower (distal-less than 40% of stomach)\*\*\*
- 32 Lower (distal) gastrectomy (partial, subtotal, hemi-)
- 33 Upper (proximal) gastrectomy (partial, subtotal, hemi-)

**Code 30 includes:**

Partial gastrectomy, including a sleeve resection of the stomach  
Billroth I: anastomosis to duodenum (duodenostomy)  
Billroth II: anastomosis to jejunum (jejunostomy)

- 40 Near-total or total gastrectomy, NOS
- 41 Near-total gastrectomy
- 42 Total gastrectomy

**A total gastrectomy may follow a previous partial resection of the stomach.**

- 50 Gastrectomy, NOS WITH removal of a portion of esophagus

51 Partial or subtotal gastrectomy

52 Near total or total gastrectomy

**Codes 50-52 are used for gastrectomy resection when only portions of esophagus are included in procedure.**

60 Gastrectomy with a resection in continuity with the resection of other organs, NOS\*\*\*

61 Partial or subtotal gastrectomy, in continuity with the resection of other organs\*\*\*

62 Near total or total gastrectomy, in continuity with the resection of other organs\*\*\*

63 Radical gastrectomy, in continuity with the resection of other organs\*\*\*

**Codes 60-63 are used for gastrectomy resections with organs other than esophagus. Portions of esophagus may or may not be included in the resection.**

[SEER Guideline: codes 60-63 may include omentectomy]

[SEER Guideline: in continuity with or "en bloc" means that all of the tissues were removed during the same procedure, but not necessarily in a single specimen]

80 Gastrectomy, NOS

90 Surgery, NOS

99 Unknown if surgery performed; death certificate ONLY

\*\*\* Incidental splenectomy NOT included

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## COLON

### C18.0-C18.9

(Except for M-9750, 9760-9764, 9800-9820, 9826, 9831-9920, 9931-9964, 9980-9989)

**Code** removal/surgical ablation of single or multiple liver metastases under the data item *Surgical Procedure/Other Site* (NAACCR Item #1294).

#### Codes

00 None; no surgery of primary site; autopsy ONLY

10 Local tumor destruction, NOS

- 11 Photodynamic therapy (PDT)
- 12 Electrocautery; fulguration (includes use of hot forceps for tumor destruction)
- 13 Cryosurgery
- 14 Laser

**No specimen sent to pathology from surgical events 10-14.**

- 20 Local tumor excision, NOS
  - 27 Excisional biopsy
  - 26 Polypectomy, NOS
  - 28 Polypectomy-endoscopic
  - 29 Polypectomy-surgical excision

Any combination of 20 or 26-29 WITH  
[SEER Guideline: the following codes INCLUDE local tumor excision, polypectomy (NOS, endoscopic or surgical excision) or excisional biopsy]

- 21 Photodynamic therapy (PDT)
- 22 Electrocautery
- 23 Cryosurgery
- 24 Laser ablation
- 25 Laser excision

**Specimen sent to pathology from surgical events 20-29.**

- 30 Partial colectomy, segmental resection
  - 32 Plus resection of contiguous organ; example: small bowel, bladder

[SEER Guideline: codes 30-32 include but are not limited to: appendectomy (for an appendix primary only), enterocolectomy, ileocolectomy, partial colectomy, NOS, partial resection of transverse colon and flexures, segmental resection, e.g., cecectomy, sigmoidectomy]
- 40 Subtotal colectomy/hemicolectomy (total right or left colon and a portion of transverse colon)
  - 41 Plus resection of contiguous organ; example: small bowel, bladder
- 50 Total colectomy (removal of colon from cecum to the rectosigmoid)

junction; may include a portion of the rectum)

- 51 Plus resection of contiguous organ; example: small bowel, bladder
- 60 Total proctocolectomy (removal of colon from cecum to the rectosigmoid junction, including the entire rectum)  
[SEER Guideline: commonly used for familial polyposis or polyposis coli]
- 61 Plus resection of contiguous organ; example: small bowel, bladder
- 70 Colectomy or coloproctectomy with resection of contiguous organ(s), NOS (where there is not enough information to code 32, 41, 51, or 61)  
  
**Code 70 includes:** Any colectomy (partial, hemicolectomy, or total) WITH a resection of any other organs in continuity with the primary site. Other organs may be partially or totally removed. Other organs may include, but are not limited to, oophorectomy, partial proctectomy, rectal mucosectomy, or pelvic exenteration.  
  
[SEER Guideline: in continuity with or "en bloc" means that all of the tissues were removed during the same procedure, but not necessarily in a single specimen]
- 80 Colectomy, NOS
- 90 Surgery, NOS
- 99 Unknown if surgery performed; death certificate ONLY

## RECTOSIGMOID

### C19.9

(Except for M-9750, 9760-9764, 9800-9820, 9826, 9831-9920, 9931-9964, 9980-9989)

**Code** removal/surgical ablation of single or multiple liver metastases under the data item *Surgical Procedure/Other Site* (NAACCR Item #1294).

#### Codes

- 00 None; no surgery of primary site; autopsy ONLY
- 10 Local tumor destruction, NOS
  - 11 Photodynamic therapy (PDT)
  - 12 Electrocautery; fulguration (includes use of hot forceps for tumor

destruction)

13 Cryosurgery

14 Laser ablation

**No specimen sent to pathology from surgical events 10-14.**

20 Local tumor excision, NOS

26 Polypectomy

27 Excisional biopsy

Any combination of 20 or 26-27 WITH  
[SEER Guideline: the following codes INCLUDE local tumor excision,  
polypectomy or excisional biopsy]

21 Photodynamic therapy (PDT)

22 Electrocautery

23 Cryosurgery

24 Laser ablation

25 Laser excision

**Specimen sent to pathology from surgical events 20-27.**

30 Wedge or segmental resection; partial proctosigmoidectomy, NOS

31 Plus resection of contiguous organs; example: small bowel,  
bladder

**Procedures coded 30 include, but are not limited to:**

Anterior resection  
Hartmann operation  
Low anterior resection (LAR)  
Partial colectomy, NOS  
Rectosigmoidectomy, NOS  
Sigmoidectomy

40 Pull through WITH sphincter preservation (colo-anal anastomosis)  
[SEER Guideline: Procedures coded 40 include but are not limited to:  
Altemeier's operation, Duhamel's operation, Soave's submucosal  
resection, Swenson's operation, Turnbull's operation.]

50 Total proctectomy  
[SEER Guideline: Procedures coded 50 include but are not limited to:  
abdominoperineal resection (A & P resection), anterior/posterior  
resection (A/P resection)/Mile's operation, Rankin's operation]

51 Total colectomy [SEER Guideline: removal of the colon from cecum to  
rectosigmoid or portion of rectum]

- 55 Total colectomy WITH ileostomy, NOS
  - 56 Ileorectal reconstruction
  - 57 Total colectomy WITH other pouch; example: Koch pouch
- 60 Total proctocolectomy, NOS [SEER Guideline: combination of 50 and 51]
  - 65 Total proctocolectomy WITH ileostomy, NOS
  - 66 Total proctocolectomy WITH ileostomy and pouch

**Removal of the colon from cecum to the rectosigmoid or a portion of the rectum.**

- 70 Colectomy or proctocolectomy resection in continuity with other organs; pelvic exenteration  
 [SEER Guideline: Procedures that may be part of an en bloc resection include, but are not limited to: an oophorectomy and a rectal mucosectomy. Code 70 includes any colectomy (partial, hemicolectomy or total) with an en bloc resection of any other organs. There may be partial or total removal of other organs in continuity with the primary.]  
 [SEER Guideline: in continuity with or "en bloc" means that all of the tissues were removed during the same procedure, but not necessarily in a single specimen]
- 80 Colectomy, NOS; Proctectomy, NOS
- 90 Surgery, NOS
- 99 Unknown if surgery performed; death certificate ONLY

**RECTUM**

**C20.9**

(Except for M-9750, 9760-9764, 9800-9820, 9826, 9831-9920, 9931-9964, 9980-9989)

**Code** removal/surgical ablation of single or multiple liver metastases under the data item *Surgical Procedure/Other Site* (NAACCR Item #1294).

**Codes**

- 00 None; no surgery of primary site; autopsy ONLY
- 10 Local tumor destruction, NOS
  - 11 Photodynamic therapy (PDT)
  - 12 Electrocautery; fulguration (includes use of hot forceps for tumor

destruction)

13 Cryosurgery

14 Laser

**No specimen sent to pathology from surgical events 10-14.**

20 Local tumor excision, NOS

27 Excisional biopsy

26 Polypectomy

Any combination of 20 or 26-27 WITH  
[SEER Guideline: the following codes INCLUDE local tumor excision, polypectomy or excisional biopsy]

21 Photodynamic therapy (PDT)

22 Electrocautery

23 Cryosurgery

24 Laser ablation

25 Laser excision

28 Curette and fulguration

**Specimen sent to pathology from surgical events 20-28.**

30 Wedge or segmental resection; partial proctectomy, NOS

**Procedures coded 30 include, but are not limited to:**

Anterior resection

Hartmanns operation

Low anterior resection (LAR)

Transsacral rectosigmoidectomy

40 Pull through WITH sphincter preservation (coloanal anastomosis)

[SEER Guideline: Procedures coded 40 include but are not limited to: Altemeier's operation, Duhamel's operation, Soave's submucosal resection, Swenson's operation, Turnbull's operation.]

50 Total proctectomy

**Procedure coded 50 includes, but is not limited to:**

Abdominoperineal resection (Miles Procedure)

[SEER Guideline: also called anterior/posterior (A/P) resection/Mile's operation, Rankin's operation]

60 Total proctocolectomy, NOS

70 Proctectomy or proctocolectomy with resection in continuity with other organs; pelvic exenteration

[SEER Guideline: in continuity with or "en bloc" means that all of the tissues were removed during the same procedure, but not necessarily



- in a single specimen]
- 80 Proctectomy, NOS
- 90 Surgery, NOS
- 99 Unknown if surgery performed; death certificate ONLY

**ANUS**

**C21.0-C21.8**

(Except for M-9750, 9760-9764, 9800-9820, 9826, 9831-9920, 9931-9964, 9980-9989)

**Codes**

- 00 None; no surgery of primary site; autopsy ONLY
- 10 Local tumor destruction, NOS
  - 11 Photodynamic therapy (PDT)
  - 12 Electrocautery; fulguration (includes use of hot forceps for tumor destruction)
  - 13 Cryosurgery
  - 14 Laser
  - 15 Thermal Ablation

**No specimen sent to pathology from surgical events 10-15.**

- 20 Local tumor excision, NOS
    - 26 Polypectomy
    - 27 Excisional biopsy
- Any combination of 20 or 26-27 WITH  
 [SEER Guideline: the following codes INCLUDE local tumor excision, polypectomy or excisional biopsy]
- 21 Photodynamic therapy (PDT)
  - 22 Electrocautery
  - 23 Cryosurgery
  - 24 Laser ablation
  - 25 Laser excision

**Specimen sent to pathology from surgical events 20-27.**

[SEER Guideline: margins of resection may have microscopic involvement]

60 Abdominal perineal resection, NOS (APR; Miles procedure)

61 APR and sentinel node excision

62 APR and unilateral inguinal lymph node dissection

63 APR and bilateral inguinal lymph node dissection

**The lymph node dissection should also be coded under Scope of Regional Lymph Node Surgery (NAACCR Item #1292) or Scope of Regional Lymph Node Surgery at This Facility (NAACCR Item #672).**

90 Surgery, NOS

99 Unknown if surgery performed; death certificate ONLY

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**LIVER AND INTRAHEPATIC BILE DUCTS**

**C22.0-C22.1**

(Except for M-9750, 9760-9764, 9800-9820, 9826, 9831-9920, 9931-9964, 9980-9989)

**Codes**

00 None; no surgery of primary site; autopsy ONLY

10 Local tumor destruction, NOS

11 Photodynamic therapy (PDT)

12 Electrocautery; fulguration (includes use of hot forceps for tumor destruction)

13 Cryosurgery

14 Laser

15 Alcohol (Percutaneous Ethanol Injection-PEI)

16 Heat-Radio-frequency ablation (RFA)

17 Other (ultrasound, acetic acid)

**No specimen sent to pathology from surgical events 10-17.**

**Clarification from ACOS: Chemoembolization should be coded as 10 - Local Tumor Destruction and in addition, should also be**

**appropriately coded in the Chemotherapy field.**

- 20 Wedge or segmental resection, NOS
- 21 Wedge resection
- 22 Segmental resection, NOS
  - 23 One
  - 24 Two
  - 25 Three
  - 26 Segmental resection AND local tumor destruction
- Specimen sent to pathology from surgical events 20-26.**
- 30 Lobectomy, [simple or] NOS
  - 36 Right lobectomy
  - 37 Left lobectomy
  - 38 Lobectomy AND local tumor destruction
- 50 Extended lobectomy, NOS (extended: resection of a single lobe plus a segment of another lobe)
  - 51 Right lobectomy
  - 52 Left lobectomy
  - 59 Extended lobectomy AND local tumor destruction
- 60 Hepatectomy, NOS [formerly SEER code 80]
  - 61 Total hepatectomy and transplant [formerly SEER code 70]
- 65 Excision of a bile duct (for an intra-hepatic bile duct primary only) [formerly SEER code 40]
  - 66 Excision of a bile duct PLUS partial hepatectomy
- 75 Bile duct and hepatectomy WITH transplant
- 90 Surgery, NOS
- 99 Unknown if surgery performed; death certificate ONLY

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**PANCREAS  
C25.0-C25.9**

(Except for M-9750, 9760-9764, 9800-9820, 9826, 9831-9920, 9931-9964, 9980-9989)

**Codes**

- 00 None; no surgery of primary site; autopsy ONLY
  - 25 Local excision of tumor, NOS [formerly SEER code 10]
  - 30 Partial pancreatectomy, NOS; example: distal [formerly SEER code 20]
  - 35 Local or partial pancreatectomy and duodenectomy [formerly SEER code 50]
    - 36 WITHOUT distal/partial gastrectomy [formerly SEER code 51 "without subtotal gastrectomy"]
    - 37 WITH partial gastrectomy (Whipple) [formerly SEER code 52 "with subtotal gastrectomy (Whipple)"]
  - 40 Total pancreatectomy
  - 60 Total pancreatectomy and subtotal gastrectomy or duodenectomy
  - 70 Extended pancreatoduodenectomy
  - 80 Pancreatectomy, NOS
  - 90 Surgery, NOS
  - 99 Unknown if surgery performed; death certificate ONLY
- 

**LARYNX**

**C32.0-C32.9**

(Except for M-9750, 9760-9764, 9800-9820, 9826, 9831-9920, 9931-9964, 9980-9989)

**Codes**

- 00 None; no surgery of primary site; autopsy ONLY
- 10 Local tumor destruction, NOS
  - 11 Photodynamic therapy (PDT)
  - 12 Electrocautery; fulguration (includes use of hot forceps for tumor destruction)
  - 13 Cryosurgery
  - 14 Laser

- 15 Stripping
- No specimen sent to pathology from surgical events 10-15.**
- 20 Local tumor excision, NOS
- 26 Polypectomy
- 27 Excisional biopsy
- Any combination of 20 or 26-27 WITH  
[SEER Guideline: the following codes INCLUDE local tumor excision, polypectomy or excisional biopsy]
- 21 Photodynamic therapy (PDT)
- 22 Electrocautery
- 23 Cryosurgery
- 24 Laser ablation
- 25 Laser excision
- 28 Stripping
- Specimen sent to pathology from surgical events 20-28.**
- 30 Partial excision of the primary site, NOS; subtotal/partial laryngectomy NOS; hemilaryngectomy NOS
- 31 Vertical laryngectomy
- 32 Anterior commissure laryngectomy
- 33 Supraglottic laryngectomy
- 40 Total or radical laryngectomy, NOS
- 41 Total laryngectomy ONLY
- 42 Radical laryngectomy ONLY
- 50 Pharyngolaryngectomy
- 80 Laryngectomy, NOS
- 90 Surgery, NOS
- 99 Unknown if surgery performed; death certificate ONLY

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**LUNG**

**C34.0-C34.9**

(Except for M-9750, 9760-9764, 9800-9820, 9826, 9831-9920, 9931-9964, 9980-9989)

**Codes**

- 00 None; no surgery of primary site; autopsy ONLY
- 19 Local tumor destruction or excision, NOS [formerly SEER code 10]  
**Unknown whether a specimen was sent to pathology for surgical events coded 19 (principally for cases diagnosed prior to January 1, 2003).**
- 15 Local tumor destruction, NOS
  - 12 Laser ablation or cryosurgery [formerly SEER code 12 = laser ablation or excision]
  - 13 Electrocautery; fulguration (includes use of hot forceps for tumor destruction) [formerly SEER code 13 = cautery; fulguration]

**No specimen sent to pathology from surgical events 12-13 and 15.**

- 20 Excision or resection of less than one lobe, NOS
  - 23 Excision, NOS [formerly SEER code 11 = Excision]
  - 24 Laser excision [formerly SEER code 12 = laser ablation or excision]
  - 25 Bronchial sleeve resection ONLY [formerly SEER code 14]
  - 21 Wedge resection
  - 22 Segmental resection, including lingulectomy

**Specimen sent to pathology from surgical events 20-25.**

- 30 Resection of [at least one] lobe or bilobectomy, but less than the whole lung (partial pneumonectomy, NOS)
  - 33 Lobectomy WITH mediastinal lymph node dissection  
The lymph node dissection should also be coded under Scope of Regional Lymph Node Surgery (NAACCR Item #1292) or Scope of Regional Lymph Node Surgery at This Facility (NAACCR Item #672).
- 45 Lobe or bilobectomy extended, NOS
  - 46 WITH chest wall
  - 47 WITH pericardium
  - 48 WITH diaphragm
- 55 Pneumonectomy, NOS [formerly SEER codes 40, 50, 51, 52, 53, 54]

56 WITH mediastinal lymph node dissection (radical pneumonectomy)

The lymph node dissection should also be coded under Scope of Regional Lymph Node Surgery (NAACCR Item #1292) or Scope of Regional Lymph Node Surgery at This Facility (NAACCR Item #672).

NOTE: Peribronchial or hilar lymph nodes are not included in any of the lung surgery codes. If peribronchial or hilar nodes are dissected as part of a surgical procedure which involves the destruction, excision or resection of the primary tumor then the extent of the nodal dissection is recorded in the item "Scope of Regional Lymph Node Surgery" and the number of nodes dissected is recorded as part of the cumulative Regional Lymph Nodes Examined."

65 Extended pneumonectomy

66 Extended pneumonectomy plus pleura or diaphragm

70 Extended radical pneumonectomy

[SEER Guideline: an extended radical pneumonectomy is a radical pneumonectomy (including removal of mediastinal nodes) and the removal of other tissues or nodes]

The lymph node dissection should also be coded under Scope of Regional Lymph Node Surgery (NAACCR Item #1292) or Scope of Regional Lymph Node Surgery at This Facility (NAACCR Item #672).

NOTE: Peribronchial or hilar lymph nodes are not included in any of the lung surgery codes. If peribronchial or hilar nodes are dissected as part of a surgical procedure which involves the destruction, excision or resection of the primary tumor then the extent of the nodal dissection is recorded in the item "Scope of Regional Lymph Node Surgery" and the number of nodes dissected is recorded as part of the cumulative "Regional Lymph Nodes Examined."

80 Resection of lung, NOS

90 Surgery, NOS

99 Unknown if surgery performed; death certificate ONLY

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**HEMATOPOIETIC/RETICULOENDOTHELIAL/IMMUNOPROLIFERATIVE  
/MYELOPROLIFERATIVE DISEASE**

**C42.0, C42.1, C42.3, C42.4 for all histologies**

**Or**

**M-9750, 9760-9764, 9800-9820, 9826, 9831-9920, 9931-9964, 9980-9989 for all sites**

**Code**

98 All hematopoietic/reticuloendothelial/immunoproliferative/myeloproliferative disease sites and/or histologies, WITH or WITHOUT surgical treatment.

**Surgical procedures for hematopoietic/reticuloendothelial/immunoproliferative/myeloproliferative primaries are to be recorded using the data item Surgical Procedure/Other Site (NAACCR Item #1294) or *Surgical Procedure/Other Site at This Facility (NAACCR Item #674)*.**

99 Death certificate only

**NOTE:** A hematopoietic case not otherwise specified in the list of standard exclusions (M-9750, 9760-9764, 9800-9720, 9826, 9831-9920, 9931-9964, 9980-9989) in the surgery code appendix should be treated as an Unknown And Ill-Defined Primary Site. Examples include solitary plasmacytoma and chloroma.

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**BONES, PERIPHERAL NERVES, AND SOFT TISSUES**

**BONES, JOINTS, AND ARTICULAR CARTILAGE C40.0-C41.9**

**PERIPHERAL NERVES AND AUTONOMIC NERVOUS SYSTEM C47.0-C47.9**

**CONNECTIVE, SUBCUTANEOUS, AND OTHER SOFT TISSUES C49.0-C49.9**

(Except for M-9750, 9760-9764, 9800-9820, 9826, 9831-9920, 9931-9964, 9980-9989)

**Codes**

00 None; no surgery of primary site; autopsy ONLY

19 Local tumor destruction or excision, NOS [formerly SEER code 10 = local tumor destruction or excision]  
**Unknown whether a specimen was sent to pathology for surgical events coded 19 (principally for cases diagnosed prior to January 1, 2003).**

15 Local tumor destruction [formerly SEER code 10 = local tumor destruction or excision]  
**No specimen sent to pathology from surgical event 15.**

25 Local excision

26 Partial resection [formerly SEER code 20 = partial resection/internal



hemipelvectomy (pelvis)]

**Specimen sent to pathology from surgical events 25-26.**

- 30 Radical excision or resection of lesion WITH limb salvage
- 40 Amputation of limb
  - 41 Partial amputation of limb
  - 42 Total amputation of limb
- 50 Major amputation, NOS
  - 51 Forequarter, including scapula
  - 52 Hindquarter, including ilium/hip bone
  - 53 Hemipelvectomy, NOS
  - 54 Internal hemipelvectomy [formerly SEER code 20 = partial resection/internal hemipelvectomy (pelvis)]
- 90 Surgery, NOS
- 99 Unknown if surgery performed; death certificate ONLY

**SPLEEN**

**Spleen C42.2**

(Except for M-9750, 9760-9764, 9800-9820, 9826, 9831-9920, 9931-9964, 9980-9989)

**Note: Lymph Nodes surgery codes have been moved to a separate scheme**

**Codes**

- 00 None; no surgery of primary site; autopsy ONLY
- 19 Local tumor destruction or excision, NOS  
[formerly SEER code 10 = local excision, destruction, NOS]  
Unknown whether a specimen was sent to pathology for surgical events coded 19 (principally for cases diagnosed prior to January 1, 2003).
- 21 Partial splenectomy
- 22 Total splenectomy
- 80 Splenectomy, NOS [formerly SEER code 20]

- 90 Surgery, NOS
- 99 Unknown if surgery performed; death certificate ONLY

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**SKIN**

**C44.0-C44.9**

(Except for M-9750, 9760-9764, 9800-9820, 9826, 9831-9920, 9931-9964, 9980-9989)

**Codes**

- 00 None; no surgery of primary site; autopsy ONLY
- 10 Local tumor destruction, NOS
  - 11 Photodynamic therapy (PDT)
  - 12 Electrocautery; fulguration (includes use of hot forceps for tumor destruction)
  - 13 Cryosurgery
  - 14 Laser ablation

**No specimen sent to pathology from surgical events 10-14.**

- 20 Local tumor excision, NOS
  - 26 Polypectomy
  - 27 Excisional biopsy

Any combination of 20 or 26-27 WITH  
[SEER Guideline: the following codes INCLUDE local tumor excision, polypectomy or excisional biopsy]

- 21 Photodynamic therapy (PDT)
- 22 Electrocautery
- 23 Cryosurgery
- 24 Laser ablation
- 25 Laser excision

**Specimen sent to pathology from surgical events 20-27.**

- 30 Biopsy of primary tumor followed by a gross excision of the lesion (does not have to be done under the same anesthesia)
  - 31 Shave biopsy followed by a gross excision of the lesion

- 32 Punch biopsy followed by a gross excision of the lesion
- 33 Incisional biopsy followed by a gross excision of the lesion
- 34 Mohs surgery, NOS
- 35 Mohs with 1-cm margin or less
- 36 Mohs with more than 1-cm margin
- 45 Wide excision or reexcision of lesion or minor (local) amputation with margins more than 1 cm, NOS. Margins **MUST** be microscopically negative. [formerly SEER code 40 or 50 = wide excision or re-excision of lesion or minor (local) amputation, NOS, margins of excision are 1 cm or more, margins may be microscopically involved.]
  - 46 WITH margins more than 1 cm and less than or equal to 2 cm
  - 47 WITH margins greater than 2 cm

**If the excision does not have microscopically negative margins greater than 1 cm, use the appropriate code, 20-36.**
- 60 Major amputation [NOS]
- 90 Surgery, NOS
- 99 Unknown if surgery performed; death certificate ONLY

## BREAST

### C50.0-C50.9

(Except for M-9750, 9760-9764, 9800-9820, 9826, 9831-9920, 9931-9964, 9980-9989)

#### Codes

- 00 None; no surgery of primary site; autopsy ONLY
- 19 Local tumor destruction, NOS
 

**No specimen was sent to pathology for surgical events coded 19 (principally for cases diagnosed prior to January 1, 2003).**
- 20 Partial mastectomy, NOS; less than total mastectomy, NOS  
[formerly SEER code 10]
  - 21 Partial mastectomy WITH nipple resection [formerly SEER code 11 = nipple resection]
  - 22 Lumpectomy or excisional biopsy [formerly SEER code 12]
  - 23 Reexcision of the biopsy site for gross or microscopic residual

disease [formerly SEER code 13]

- 24 Segmental mastectomy (including wedge resection, quadrantectomy, tylectomy) [formerly SEER codes 16 = segmental mastectomy, 14 = wedge resection, 15 = quadrantectomy, 17 = tylectomy]

**Procedures coded 20-24 remove the gross primary tumor and some of the breast tissue (breast-conserving or preserving). There may be microscopic residual tumor.**

- 30 Subcutaneous mastectomy  
**A subcutaneous mastectomy is the removal of breast tissue without the nipple and areolar complex or overlying skin.**  
[SEER Guideline: this procedure is rarely used to treat malignancies]
- 40 Total (simple) mastectomy, NOS
- 41 WITHOUT removal of uninvolved contralateral breast
- 43 Reconstruction NOS
- 44 Tissue
- 45 Implant
- 46 Combined (Tissue and Implant)
- 42 WITH removal of uninvolved contralateral breast
- 47 Reconstruction NOS
- 48 Tissue
- 49 Implant
- 75 Combined (Tissue and Implant)

**A total (simple) mastectomy removes all breast tissue, the nipple, and areolar complex. An axillary dissection is not done.**

For single primaries only, code removal of involved contralateral breast under the data item Surgical Procedure/Other Site (NAACCR Item #1294) or Surgical Procedure/Other Site at This Facility (NAACCR Item #674).

**If contralateral breast reveals a second primary, each breast is abstracted separately. The surgical procedure is coded 41 for the first primary. The surgical code for the contralateral breast is coded to the procedure performed on**

**that site.**

- 50 Modified radical mastectomy
  - 51 WITHOUT removal of uninvolved contralateral breast
  - 53 Reconstruction, NOS
    - 54 Tissue
    - 55 Implant
    - 56 Combined (Tissue and Implant)
  - 52 WITH removal of uninvolved contralateral breast
    - 57 Reconstruction, NOS
    - 58 Tissue
    - 59 Implant
    - 63 Combined (Tissue and Implant)

**Removal of all breast tissue, the nipple, the areolar complex, and variable amounts of breast skin in continuity with the axilla. The specimen may or may not include a portion of the pectoralis major muscle.**

[SEER Guideline: in continuity with or "en bloc" means that all of the tissues were removed during the same procedure, but not necessarily in a single specimen]

[SEER Guideline: "tissue" for reconstruction is defined as human tissue such as muscle (latissimus dorsi or rectus abdominis) or skin in contrast to artificial prostheses (implants).]

**If contralateral breast reveals a second primary, it is abstracted separately. The surgical procedure is coded 51 for the first primary. The surgical code for the contralateral breast is coded to the procedure performed on that site.**

For single primaries only, code removal of involved contralateral breast under the data item Surgical Procedure/Other Site (NAACCR Item #1294) or Surgical Procedure/Other Site at This Facility (NAACCR Item #674).

- 60 Radical mastectomy, NOS
  - 61 WITHOUT removal of uninvolved contralateral breast
    - 64 Reconstruction, NOS
    - 65 Tissue

- 66 Implant
- 67 Combined (Tissue and Implant)
- 62 WITH removal of uninvolved contralateral breast
  - 68 Reconstruction, NOS
  - 69 Tissue
  - 73 Implant
  - 74 Combined (Tissue and Implant)

[SEER Guideline: Removal of breast tissue, nipple, areolar complex, variable amount of skin, pectoralis minor, pectoralis major. Includes en bloc axillary dissection. For single primaries only, code removal of involved contralateral breast under the data item "Surgery of other regional sites, distant sites, or distant lymph nodes."]

- 70 Extended radical mastectomy
  - 71 WITHOUT removal of uninvolved contralateral breast
  - 72 WITH removal of uninvolved contralateral breast

[SEER Guideline: Removal of breast tissue, nipple, areolar complex, variable amount of skin, pectoralis minor, pectoralis major. Includes removal of internal mammary nodes and en bloc axillary dissection. For single primaries only, code removal of involved contralateral breast under the data item "Surgery of other regional sites, distant sites, or distant lymph nodes."]

- 80 Mastectomy, NOS
- 90 Surgery, NOS
- 99 Unknown if surgery performed; death certificate ONLY

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## **CERVIX UTERI**

### **C53.0-C53.9**

(Except for M-9750, 9760-9764, 9800-9820, 9826, 9831-9920, 9931-9964, 9980-9989)

**For invasive cancers**, dilation and curettage is coded as an incisional biopsy (02) under the data item *Surgical Diagnostic and Staging Procedure* (NAACCR Item #1350).

#### **Codes**

- 00 None; no surgery of primary site; autopsy ONLY

- 10 Local tumor destruction, NOS
  - 11 Photodynamic therapy (PDT)
  - 12 Electrocautery; fulguration (includes use of hot forceps for tumor destruction)
  - 13 Cryosurgery
  - 14 Laser
  - 15 Loop Electrocautery Excision Procedure (LEEP)
  - 16 Laser ablation
  - 17 Thermal ablation

**No specimen sent to pathology from surgical events 10-17.**

- 20 Local tumor excision, NOS
  - 26 Excisional biopsy, NOS
  - 27 Cone biopsy
  - 24 Cone biopsy WITH gross excision of lesion
  - 29 Trachelectomy; removal of cervical stump; cervicectomy

Any combination of 20, 24, 26, 27 or 29 WITH

  - 21 Electrocautery
  - 22 Cryosurgery
  - 23 Laser ablation or excision
  - 25 Dilatation and curettage; endocervical curettage (for in situ only)
  - 28 Loop electrocautery excision procedure (LEEP)

**Specimen sent to pathology from surgical events 20-29.**

- 30 Total hysterectomy (simple, pan-) WITHOUT removal of tubes and ovaries  
**Total hysterectomy removes both the corpus and cervix uteri and may also include a portion of vaginal cuff.**
- 40 Total hysterectomy (simple, pan-) WITH removal of tubes and/or ovary  
**Total hysterectomy removes both the corpus and cervix uteri and may also include a portion of vaginal cuff.**
- 50 Modified radical or extended hysterectomy; radical hysterectomy; extended radical hysterectomy
  - 51 Modified radical hysterectomy

- 52 Extended hysterectomy
- 53 Radical hysterectomy; Wertheim procedure
- 54 Extended radical hysterectomy
- 60 Hysterectomy, NOS, WITH or WITHOUT removal of tubes and ovaries
  - 61 WITHOUT removal of tubes and ovaries
  - 62 WITH removal of tubes and ovaries
- 70 Pelvic exenteration
  - 71 Anterior exenteration

**Includes bladder, distal ureters, and genital organs WITH their ligamentous attachments and pelvic lymph nodes.**

NOTE: Do not code removal of pelvic lymph nodes under Surgical Procedure/Other Site.

- 72 Posterior exenteration

**Includes rectum and rectosigmoid WITH ligamentous attachments and pelvic lymph nodes.**

NOTE: Do not code removal of pelvic lymph nodes under Surgical Procedure/Other Site.

- 73 Total exenteration

**Includes removal of all pelvic contents and pelvic lymph nodes.**

NOTE: Do not code removal of pelvic lymph nodes under Surgical Procedure/Other Site.

- 74 Extended exenteration

**Includes pelvic blood vessels or bony pelvis.**

- 90 Surgery, NOS

- 99 Unknown if surgery performed; death certificate ONLY

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## **CORPUS UTERI**

### **C54.0-C55.9**

(Except for M-9750, 9760-9764, 9800-9820, 9826, 9831-9920, 9931-9964, 9980-9989)



**For invasive cancers**, dilation and curettage is coded as an incisional biopsy (02) under the data item *Surgical Diagnostic and Staging Procedure* (NAACCR Item #1350).

**Codes**

- 00 None; no surgery of primary site; autopsy ONLY
- 19 Local tumor destruction or excision, NOS  
**Unknown whether a specimen was sent to pathology for surgical events coded 19 (principally for cases diagnosed prior to January 1, 2003).**
- 10 Local tumor destruction, NOS
  - 11 Photodynamic therapy (PDT)
  - 12 Electrocautery; fulguration (includes use of hot forceps for tumor destruction)
  - 13 Cryosurgery
  - 14 Laser
  - 15 Loop Electocautery Excision Procedure (LEEP)
  - 16 Thermal ablation

**No specimen sent to pathology from surgical events 10-16.**
- 20 Local tumor excision, NOS; simple excision, NOS
  - 24 Excisional biopsy
  - 25 Polypectomy
  - 26 Myomectomy

Any combination of 20 or 24-26 WITH  
 [SEER Guideline: the following codes INCLUDE local tumor excision, polypectomy or excisional biopsy]

  - 21 Electrocautery
  - 22 Cryosurgery
  - 23 Laser ablation or excision

**Specimen sent to pathology from surgical events 20-26.**  
 [Margins of resection may have microscopic involvement]  
 [SEER Guideline: Procedures in code 20 include but are not limited to: cryosurgery, electrocautery, excisional biopsy, laser ablation, thermal ablation]
- 30 Subtotal hysterectomy/supracervical hysterectomy/fundectomy WITH

or WITHOUT removal of tube(s) and ovary(ies).

31 WITHOUT tube(s) and ovary(ies)

32 WITH tube(s) and ovary(ies)

[SEER Guideline: for these procedures, the cervix is left in place.]

40 Total hysterectomy (simple, pan-) WITHOUT removal of tube(s) and ovary(ies)

**Removes both the corpus and cervix uteri. It may also include a portion of the vaginal cuff.**

50 Total hysterectomy (simple, pan-) WITH removal of tube(s) and/or ovary(ies)

**Removes both the corpus and cervix uteri. It may also include a portion of the vaginal cuff.**

60 Modified radical or extended hysterectomy; radical hysterectomy; extended radical hysterectomy

61 Modified radical hysterectomy

62 Extended hysterectomy

63 Radical hysterectomy; Wertheim procedure

64 Extended radical hysterectomy

65 Hysterectomy, NOS, WITH or WITHOUT removal of tube(s) and ovary(ies) [formerly SEER code 70]

66 WITHOUT removal of tube(s) and ovary(ies) [formerly SEER code 71]

67 WITH removal of tube(s) and ovary(ies) [formerly SEER code 72]

75 Pelvic exenteration [formerly SEER code 80]

76 Anterior exenteration [formerly SEER code 81]

**Includes bladder, distal ureters, and genital organs WITH their ligamentous attachments and pelvic lymph nodes.**

NOTE: Do not code removal of pelvic lymph nodes under Surgical Procedure/Other Site.

77 Posterior exenteration [formerly SEER code 82]

**Includes rectum and rectosigmoid WITH ligamentous attachments and pelvic lymph nodes.**

NOTE: Do not code removal of pelvic lymph nodes under Surgical Procedure/Other Site.

- 78 Total exenteration [formerly SEER code 83]  
**Includes removal of all pelvic contents and pelvic lymph nodes.**

NOTE: Do not code removal of pelvic lymph nodes under Surgical Procedure/Other Site.

- 79 Extended exenteration [formerly SEER code 84]  
**Includes pelvic blood vessels or bony pelvis.**
- 90 Surgery, NOS
- 99 Unknown if surgery performed; death certificate ONLY

**OVARY**

**C56.9**

(Except for M-9750, 9760-9764, 9800-9820, 9826, 9831-9920, 9931-9964, 9980-9989)

**Codes**

- 00 None; no surgery of primary site; autopsy ONLY
- 17 Local tumor destruction, NOS  
**No specimen sent to pathology from surgical event 17.**
- 25 Total removal of tumor or (single) ovary, NOS
- 26 Resection of ovary (wedge, subtotal, or partial) ONLY, NOS; unknown if hysterectomy done
- 27 WITHOUT hysterectomy
- 28 WITH hysterectomy
- Specimen sent to pathology from surgical events 25-28.**
- 35 Unilateral (salpingo-)oophorectomy; unknown if hysterectomy done [formerly SEER code 14]
- 36 WITHOUT hysterectomy [formerly SEER code 15]
- 37 WITH hysterectomy [formerly SEER code 16]
- 50 Bilateral (salpingo-)oophorectomy; unknown if hysterectomy done [formerly SEER code 20]
- 51 WITHOUT hysterectomy [formerly SEER code 21]
- 52 WITH hysterectomy [formerly SEER code 22]

- 55 Unilateral or bilateral (salpingo-)oophorectomy WITH OMENTECTOMY, NOS; partial or total; unknown if hysterectomy done [formerly SEER code 30]
  - 56 WITHOUT hysterectomy [formerly SEER code 31]
  - 57 WITH hysterectomy [formerly SEER code 32]
- 60 Debulking; cytoreductive surgery, NOS
  - 61 WITH colon (including appendix) and/or small intestine resection (not incidental)
  - 62 WITH partial resection of urinary tract (not incidental)
  - 63 Combination of 61 and 62

**Debulking is a partial or total removal of the tumor mass and can involve the removal of multiple organ sites. It may include removal of ovaries and/or the uterus (a hysterectomy). The pathology report may or may not identify ovarian tissue. A debulking is usually followed by another treatment modality such as chemotherapy.**

- 70 Pelvic exenteration, NOS
  - 71 Anterior *exenteration*

**Includes bladder, distal ureters, and genital organs WITH their ligamentous attachments and pelvic lymph nodes.**

NOTE: Do not code removal of pelvic lymph nodes under Surgical Procedure/Other Site.

- 72 Posterior *exenteration*

**Includes rectum and rectosigmoid WITH ligamentous attachments and pelvic lymph nodes.**

NOTE: Do not code removal of pelvic lymph nodes under Surgical Procedure/Other Site.

- 73 Total *exenteration*

**Includes removal of all pelvic contents and pelvic lymph nodes.**

NOTE: Do not code removal of pelvic lymph nodes under Surgical Procedure/Other Site.

- 74 Extended exenteration
  - Includes pelvic blood vessels or bony pelvis.**
- 80 (Salpingo-)oophorectomy, NOS

- 90 Surgery, NOS
- 99 Unknown if surgery performed; death certificate ONLY

**PROSTATE  
C61.9**

**Do not code** an orchiectomy in this field. For prostate primaries, orchiectomies are coded in the data item *Hematologic Transplant and Endocrine Procedures* (NAACCR Item#3250).

**Codes**

- 00 None; no surgery of primary site; autopsy ONLY
  - 18 Local tumor destruction or excision, NOS [formerly SEER code 10]
  - 19 Transurethral resection (TURP), NOS [formerly SEER code 11]
- Unknown whether a specimen was sent to pathology for surgical events coded 18 or 19 (principally for cases diagnosed prior to January 1, 2003).**
- 10 Local tumor destruction, [or excision] NOS
    - 14 Cryoprostatectomy
    - 15 Laser ablation
    - 16 Hyperthermia
    - 17 Other method of local tumor destruction
- No specimen sent to pathology from surgical events 10-17.**
- 20 Local tumor excision, NOS [formerly SEER code 10 = local tumor destruction or excision, NOS]
    - 21 Transurethral resection (TURP), NOS [formerly SEER code 11 = transurethral resection (TURP) NOS]
    - 22 TURPcancer is incidental finding during surgery for benign disease [formerly SEER code 12]
    - 23 TURPpatient has suspected/known cancer [SEER code 13]
- Any combination of 20-23 WITH
- 24 Cryosurgery
  - 25 Laser

26 Hyperthermia

**Specimen sent to pathology from surgical events 20-26.**

- 30 Subtotal, segmental, or simple prostatectomy, which may leave all or part of the capsule intact
- 50 Radical prostatectomy, NOS; total prostatectomy, NOS [formerly SEER code 30 or 40]  
**Excised prostate, prostatic capsule, ejaculatory ducts, seminal vesicle(s) and may include a narrow cuff of bladder neck.**
- 70 Prostatectomy WITH resection in continuity with other organs; pelvic exenteration  
**Surgeries coded 70 are any prostatectomy WITH resection in continuity with any other organs. The other organs may be partially or totally removed. Procedures may include, but are not limited to, cystoprostatectomy, radical cystectomy, and prostatectomy.**  
[SEER Guideline: in continuity with or en bloc means that all of the tissues were removed during the same procedure, but not necessarily in a single specimen]
- 80 Prostatectomy, NOS
- 90 Surgery, NOS
- 99 Unknown if surgery performed; death certificate ONLY

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**TESTIS**

**C62.0-C62.9**

(Except for M-9750, 9760-9764, 9800-9820, 9826, 9831-9920, 9931-9964, 9980-9989)

**Do not code** an orchiectomy in this field. For prostate primaries, orchiectomies are coded in the data item *Hematologic Transplant and Endocrine Procedures* (NAACCR Item#3250).

**Codes**

- 00 None; no surgery of primary site; autopsy ONLY
- 12 Local tumor destruction, NOS  
**No specimen sent to pathology from surgical event 12.**
- 20 Local or partial excision of testicle [SEER code 10]  
**Specimen sent to pathology from surgical event 20.**
- 30 Excision of testicle WITHOUT cord

- 40 Excision of testicle WITH cord or cord not mentioned (radical orchiectomy)
  - 80 Orchiectomy, NOS (unspecified whether partial or total testicle removed)
  - 90 Surgery, NOS
  - 99 Unknown if surgery performed; death certificate ONLY
- 

**KIDNEY, RENAL PELVIS, AND URETER**

**Kidney C64.9, Renal Pelvis C65.9, Ureter C66.9**

(Except for M-9750, 9760-9764, 9800-9820, 9826, 9831-9920, 9931-9964, 9980-9989)

**Codes**

- 00 None; no surgery of primary site; autopsy ONLY
- 10 Local tumor destruction, NOS
  - 11 Photodynamic therapy (PDT)
  - 12 Electrocautery; fulguration (includes use of hot forceps for tumor destruction)
  - 13 Cryosurgery
  - 14 Laser
  - 15 Thermal ablation

**No specimen sent to pathology from this surgical event 10-15.**

- 20 Local tumor excision, NOS
  - 26 Polypectomy
  - 27 Excisional biopsy

Any combination of 20 or 26-27 WITH  
 [SEER Guideline: the following codes INCLUDE local tumor excision, polypectomy or excisional biopsy]

- 21 Photodynamic therapy (PDT)
- 22 Electrocautery
- 23 Cryosurgery
- 24 Laser ablation
- 25 Laser excision

**Specimen sent to pathology from surgical events 20-27.**

- 30 Partial or subtotal nephrectomy (kidney or renal pelvis) or partial ureterectomy (ureter)  
**Procedures coded 30 include, but are not limited to:**  
    Segmental resection  
    Wedge resection
- 40 Complete/total/simple nephrectomy for kidney parenchyma  
Nephroureterectomy  
**Includes bladder cuff for renal pelvis or ureter.**
- 50 Radical nephrectomy  
**May include removal of a portion of vena cava, adrenal gland(s), Gerota's fascia, perinephric fat, or partial/total ureter.**
- 70 Any nephrectomy (simple, subtotal, complete, partial, simple, total, radical) in continuity with the resection of other organ(s) (colon, bladder)  
**The other organs, such as colon or bladder, may be partially or totally removed.**  
[SEER Guideline: in continuity with or "en bloc" means that all of the tissues were removed during the same procedure, but not necessarily in a single specimen]
- 80 Nephrectomy, NOS  
Ureterectomy, NOS
- 90 Surgery, NOS
- 99 Unknown if surgery performed; death certificate ONLY
- 

**BLADDER**

**C67.0-C67.9**

(Except for M-9750, 9760-9764, 9800-9820, 9826, 9831-9920, 9931-9964, 9980-9989)

**Codes**

- 00 None; no surgery of primary site; autopsy ONLY
- 10 Local tumor destruction, NOS
- 11 Photodynamic therapy (PDT)
- 12 Electrocautery; fulguration (includes use of hot forceps for tumor destruction)



- 13 Cryosurgery
- 14 Laser
- 15 Intravesical therapy
- 16 Bacillus Calmette-Guerin (BCG) or other immunotherapy

**Clarification: Use code 16 if local tumor destruction occurs via the use of BCG and more extensive surgery is not performed. When BCG is administered via Intravesical Therapy, also use code 16. In addition, also code the item under "Immunotherapy" as code 01.**

**No specimen sent to pathology from surgical events 10-16.**

- 20 Local tumor excision, NOS
- 26 Polypectomy
- 27 Excisional biopsy

Any combination of 20 or 26-27 WITH  
 [SEER Guideline: the following codes INCLUDE local tumor excision, polypectomy or excisional biopsy]

- 21 Photodynamic therapy (PDT)
- 22 Electrocautery
- 23 Cryosurgery
- 24 Laser ablation

- 25 Laser excision

**Specimen sent to pathology from surgical events 20-27.**

- 30 Partial cystectomy
- 50 Simple/total/complete cystectomy
- 60 Radical cystectomy (male only)  
 [SEER Guideline: This code is used only for men. It involves removal of bladder and prostate, with or without urethrectomy. The procedure is also called cystoprostatectomy. If a radical cystectomy is the procedure for a woman, use code 71.]
- 61 Radical cystectomy PLUS ileal conduit
- 62 Radical cystectomy PLUS continent reservoir or pouch, NOS
- 63 Radical cystectomy PLUS abdominal pouch (cutaneous)
- 64 Radical cystectomy PLUS in situ pouch (orthotopic)

70 Pelvic exenteration, NOS

71 Radical cystectomy (female only); anterior exenteration

**A radical cystectomy in a female includes removal of bladder, uterus, ovaries, entire vaginal wall, and entire urethra.**

72 Posterior exenteration

73 Total exenteration

**Includes removal of all pelvic contents and pelvic lymph nodes. The lymph node dissection should also be coded under Scope of Regional Lymph Node Surgery (NAACCR Item #1292) or Scope of Regional Lymph Node Surgery at This Facility (NAACCR Item #672).**

74 Extended exenteration

**Includes pelvic blood vessels or bony pelvis.**

80 Cystectomy, NOS

90 Surgery, NOS

99 Unknown if surgery performed; death certificate ONLY

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## **BRAIN**

**Meninges C70.0-C70.9, Brain C71.0-C71.9, Spinal Cord, Cranial Nerves and Other Parts of Central Nervous System C72.0-C72.9**

(Except for M-9750, 9760-9764, 9800-9820, 9826, 9831-9920, 9931-9964, 9980-9989)

**Do not code** laminectomies for spinal cord primaries.

### Codes

00 None; no surgery of primary site; autopsy ONLY

10 [Local] Tumor destruction, NOS

**No specimen sent to pathology from surgical event 10.**

**Do not record stereotactic radiosurgery as tumor destruction. It should be recorded in the radiation treatment item *Regional Treatment Modality* (NAACCR Item # 1570).**

20 Local excision (biopsy) of lesion or mass

**Specimen sent to pathology from surgical event 20.**

- 40 Partial resection [NOS]
  - 55 Gross total resection [formerly SEER codes 31, 32, 50, 60]
  - 90 Surgery, NOS
  - 99 Unknown if surgery performed; death certificate ONLY
- 

**THYROID GLAND**

**C73.9**

(Except for M-9750, 9760-9764, 9800-9820, 9826, 9831-9920, 9931-9964, 9980-9989)

**Codes**

- 00 None; no surgery of primary site; autopsy ONLY
  - 13 Local tumor destruction, NOS
    - No specimen sent to pathology from surgical event 13.**
  - 25 Removal of less than a lobe, NOS [formerly SEER code 10]
    - 26 Local surgical excision [formerly SEER code 11]
    - 27 Removal of a partial lobe ONLY [formerly SEER code 12]
    - Specimen sent to pathology from surgical events 25-27.**
  - 20 Lobectomy and/or isthmectomy
    - 21 Lobectomy ONLY
    - 22 Isthmectomy ONLY
    - 23 Lobectomy WITH isthmus
  - 30 Removal of a lobe and partial removal of the contralateral lobe
  - 40 Subtotal or near total thyroidectomy
  - 50 Total thyroidectomy
  - 80 Thyroidectomy, NOS
  - 90 Surgery, NOS
  - 99 Unknown if surgery performed; death certificate ONLY
-

## LYMPH NODES

### Lymph Nodes C77.0-C77.9

(Except for M-9750, 9760-9764, 9800-9820, 9826, 9831-9920, 9931-9964, 9980-9989)

#### Codes

- 00 None; no surgery of primary site; autopsy ONLY
  - 19 Local tumor destruction or excision, NOS [formerly SEER code 10 under spleen and lymph nodes]  
**Unknown whether a specimen was sent to pathology for surgical events coded to 19 (principally for cases diagnosed prior to January 1, 2003).**
  - 15 Local tumor destruction, NOS  
**No specimen sent to pathology from surgical event 15.**
  - 25 Local tumor excision, NOS  
**Less than a full chain, includes a lymph node biopsy.**
  - 30 Lymph node dissection, NOS
    - 31 One chain
    - 32 Two or more chains
  - 40 Lymph node dissection, NOS PLUS splenectomy
    - 41 One chain
    - 42 Two or more chains
  - 50 Lymph node dissection, NOS and partial/total removal of adjacent organ(s)
    - 51 One chain
    - 52 Two or more chains
  - 60 Lymph node dissection, NOS and partial/total removal of adjacent organ(s) PLUS splenectomy (Includes staging laparotomy for lymphoma.)
    - 61 One chain
    - 62 Two or more chains
  - 90 Surgery, NOS
  - 99 Unknown if surgery performed; death certificate ONLY
-

**ALL OTHER SITES**

**C14.1-C14.8, C17.0-C17.9, C23.9, C24.0-C24.9, C26.0-C26.9, C30.0-C30.1, C31.0-C31.9, C33.9, C37.9, C38.0-C38.8, C39.0-C39.9, C48.0-C48.8, C51.0-C51.9, C52.9, C57.0-C57.9, C58.9, C60.0-C60.9, C63.0-C63.9, C68.0-C68.9, C69.0-C69.9, C74.0-C74.9, C75.0-C75.9**

(Except for M-9750, 9760-9764, 9800-9820, 9826, 9831-9920, 9931-9964, 9980-9989)

**Codes**

- 00 None; no surgery of primary site; autopsy ONLY
- 10 Local tumor destruction, NOS
  - 11 Photodynamic therapy (PDT)
  - 12 Electrocautery; fulguration (includes use of hot forceps for tumor destruction)
  - 13 Cryosurgery
  - 14 Laser

**No specimen sent to pathology from surgical events 10-14.**

- 20 Local tumor excision, NOS
  - 26 Polypectomy
  - 27 Excisional biopsy

Any combination of 20 or 26-27 WITH  
 [SEER Guideline: the following codes INCLUDE local tumor excision, polypectomy or excisional biopsy]

- 21 Photodynamic therapy (PDT)
- 22 Electrocautery
- 23 Cryosurgery
- 24 Laser ablation
- 25 Laser excision

**Specimen sent to pathology from surgical events 20-27.**

- 30 Simple/partial surgical removal of primary site
- 40 Total surgical removal of primary site; enucleation
  - 41 Total enucleation (for eye surgery only)
- 50 Surgery stated to be "debulking"
- 60 Radical surgery

**Partial or total removal of the primary site WITH a resection in continuity (partial or total removal) with other organs.**

[SEER Guideline: in continuity with or "en bloc" means that all of the tissues were removed during the same procedure, but not necessarily in a single specimen]

- 90 Surgery, NOS
- 99 Unknown if surgery performed; death certificate ONLY

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**UNKNOWN AND ILL-DEFINED PRIMARY SITES**

**C76.0-C76.8, C80.9**

(Except for M-9750, 9760-9764, 9800-9820, 9826, 9831-9920, 9931-9964, 9980-9989)

**Code**

- 98 All unknown and ill-defined disease sites, WITH or WITHOUT surgical treatment.

**Surgical procedures for unknown and ill-defined primaries are to be recorded using the data item Surgical Procedure/Other Site (NAACCR Item #1294) or Surgical Procedure/Other Site at This Facility (NAACCR Item #674).**

- [99 Death certificate only]

## Memo Log

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DSQC #2007-03 MPH Rules Training  
 DSQC #2007-04 Rescinding Memos 2007-01 and 2007-02  
 DSQC #2007-05 Reportable Benign Schwannomas  
 DSQC #2007-06 Benign Brain & CNS MPH Rules

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DSQC #2006-01 **Rescind:** DSQC Memo 2002-08 - Coding Complex Morphologic Diagnoses, 3/3/06  
 DSQC #2006-02 Recording Tumor Markers in CS SSF Fields  
 DSQC #2006-03 Benign Brain Cases Unk Dx Year  
 DSQC #2006-04 Breast CS Lymph Nodes, SSF 3-5

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DSQC #2005-01 2004 Data Changes Training Issues/FAQ: Benign Brain Tumors, 03/01/05  
 DSQC #2005-01 2004 Data Changes Training Issues/FAQ: Collaborative Staging, 03/01/05  
 DSQC #2005-02 Fine Needle Aspiration of Regional Lymph Nodes, 07/11/05  
 DSQC #2005-03 Unknown Social Security Number, 07/11/05  
 DSQC #2005-04 Melanoma Surgery Code Guidelines, 08/05/05  
 DSQC #2005-05 Use of SEER\*Rx and Drugs Changing Categories, 11/25/05

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DSQC #2003-01 Histology Code for Mucinous Adenocarcinoma in a Villoglandular Polyp, 03/31/03  
 DSQC #2003-02 Surgery of Primary Site - Breast, 09/01/03  
 DSQC #2003-03 Multiple Primaries - Breast, 12/08/03  
 DSQC #2003-04 ACoS Data Items, 12/08/03  
 DSQC #2003-05 SEER Coders & Abstractors Workshop Documents (May 2003), 12/08/03

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DSQC #2002-01 Clarification: Reportable In Situ Terms, 1/28/02  
 DSQC #2002-02 Melanoma Surgery Codes, 1/28/02  
 DSQC #2002-03 SEER Prostate Guidelines  
 DSQC #2002-05 Revision of Extension Codes for Breast Cancer, 3/12/02  
 DSQC #2002-06 Race/Ethnicity Code Documentation, 07/23/02

DSQC #2002-07 SEER Coders & Abstractors Workshop Documents  
(May 2002), 8/1/02

DSQC #2002-08 Coding Complex Morphologic Diagnoses (revised  
8/02)

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DSQC #2001-01 Benign and Uncertain Behavior Brain and CNS  
Tumors, 03/27/01

DSQC #2001-02 Race and Ethnicity Code Documentation, 05/05/01

DSQC #2001-03 Anal Intraepithelial Neoplasia, Grade III, 05/04/01

DSQC #2001-04 Pilocytic/Juvenile Astrocytoma, 05/04/01

DSQC #2001-05 Rescind: Race & Ethnicity/pending, 08/13/01

DSQC #2001-06 ICD-O-2 to ICD-O-3 Conversion, 08/17/01

DSQC #2001-07 SEER Documents, 11/12/01

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DSQC #2000-01 Prostate Extension Codes 33 And 34, 01/24/00

DSQC #2000-02 Guideline: Coding EOD for Non-Surgical Cases with  
Limited Or Ambiguous Information, 02/28/00

DSQC #2000-03 Guideline: General Visual Editing Guidelines,  
02/28/00

DSQC #2000-04 Use of Colonoscopy Measurements for Assigning  
Colon Subsite Code, 03/08/00

DSQC #2000-05 Breslow Thickness and Clark Level of Invasion,  
03/08/00

DSQC #2000-06 Focus, Focal and Foci, 03/08/00

DSQC #2000-07 Rescind: Coding Prostate Clinical EOD, 03/08/00

DSQC #2000-08 Type of Recurrence, 05/05/00

DSQC #2000-09 Coding Non-Hodgkin's Lymphoma Histology,  
10/31/00

DSQC #2000-10 Errata and Corrections to the Third Edition of EOD  
1988, 10/31/00

DSQC #2000-11 Tumor Size for Combined In Situ-Invasive Tumor,  
12/18/00

DSQC #2000-12 Data Changes for 2001, 12/18/00

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*DATA STANDARDS AND QUALITY CONTROL  
MEMORANDUM  
DSQC #2007-03*



**CATEGORY: CLARIFICATIONS**  
**SUBJECT: 2007 Data Changes Training Questions**  
**EFFECTIVE: Cases Diagnosed 1/1/2007 Forward**

The attached questions and answer documents are a result of the 2007 Data Changes Training Sessions held throughout California, focusing on the SEER Multiple Primary and Histology (MPH) Coding Rules and the New Data Items. The question and answer documents are divided into the following categories:

- General Instructions for the Multiple Primary and Histology Coding Rules
  - Breast – Multiple Primary and Histology Coding Rules
  - Colon - Multiple Primary and Histology Coding Rules
    - 2007 New Data Items

Some questions were submitted to the SEER SINC. For those questions, the SEER SINC identification number is included in the answer. Several MPH questions have also been added to the SEER SINC, thus registrars are strongly encouraged to search the SINC for MPH related questions, along with questions regarding the New Data Items. The SEER SINC may be accessed at <http://seer.cancer.gov/> The SEER Multiple Primary and Histology Coding Rules FAQ document and the referenced Breeze Sessions are also located on the SEER web site at <http://seer.cancer.gov/tools/mphrules/> Registrars are encouraged to make use of these education and training resources.

## General Multiple Primary and Histology Coding Questions

1. **What is the date that visually edited discrepancies begin to be counted for the 2007 data changes?**
  - A. *You will receive feedback on the new data items and the new Multiple Primary and Histology rules for six months.*
  
2. **Are these rules going to be in Volume 1 or in the Multiple Primary and Histology Coding Rules Manual?**
  - A. *Volume 1 will reference the Multiple Primary and Histology Coding Rules Manual. You will not see the rules in Volume 1. The new data items for 2007 will be documented and defined in Volume 1.*
  
3. **Are the SEER Breeze sessions free?**
  - A. *Yes.*

- 4. Regarding the statistics quoted to demonstrate the percentage of cases with regard to the timing rule, how does SEER know the number of cases that may have been counted as recurrence when the case should have been abstracted as another primary? SEER is an incidence registry. Was the COC database queried for the recurrence issue since the date and type of recurrence is documented there?**
- A. SEER FAQ #3 states: The MPH Rules development team worked closely with epidemiologists and statisticians from NIH, Emory University, and NCI who carefully reviewed and compared outcomes from using the old rules versus new rules side-by-side and one at a time. We found nothing to indicate that we might expect a significant change in case counts or incidence rates. Most changes were measured in 100ths of one percent change. The technical documents describing the statistical review highlight differences and will be posted and made available for people who are interested in learning more about these details.*
- 5. If a registrar cannot use a clinician's statement to code histology what do you do for Class 2 or Class 3 cases when this is the only information available?**
- A. If there is no pathology report or cytology report, the next two priorities in order are: a) references to pathology or cytology findings b) other mention of type of cancer (histology) in the medical record.*
- 6. Are the microscopic findings in a pathology report used in any other sites besides colon?**
- A. No.*
- 7. Can any other pieces of information be ascertained from the microscopic section of the pathology report besides the mucin factor and the polyp factor, such as tumor behavior?**
- A. The MPH rules are not to be used to code other tumor data such as tumor behavior, stage, grade, etc.*
- 8. When you apply the rule whether you can look in the microscopic area of the pathology report or not, is the CAP summary considered microscopic?**
- A. Yes*
- 9. Does a recurrence have to be pathologically confirmed?**

**A. Yes**

**10. Is the statement “code the invasive component” even if the in situ component is more specific a rule for all sites?**

*A. Yes, the invasive component is the tumor that will predict prognosis, drive the treatment plan and affect survival.*

**11. Is there a priority order for the various types of scans if more than one is used in the workup, i.e. CT vs PET vs MRI?**

*A. Some sites have a priority order. If there is no site specific priority order, use the most specific histology documented in the scans.*

**12. If a pathologist states two TNM stages indicating two primary sites, do you ignore the multiple primary rules for that site?**

*A. No. Use the Multiple Primary rules to determine how many cases to abstract.*

**13. Regarding the 60 day rule when an invasive cancer is diagnosed after an in situ cancer, what is the rationale behind setting this at 60 days?**

*A. The 60 day rule is based on SEER historical rules and data.*

**14. Regarding the time period between the 60 days after diagnosis and the next 3-4 months before the case is abstracted. SEER FAQ # 17 address in situ and progressing to invasive during work-up. How to abstract new tumors that start to appear on the CT's between the time period of the 60 days and the time it was abstracted? They may not be documented as metastases?**

*A. Any invasive tumor of the same histology diagnosed within 60 days of an in situ tumor in the same organ is considered a single primary. If you have an invasive tumor diagnosed more than 60 days following an in situ tumor, it should be abstracted as a new primary according to site specific rules even if the medical record/physician states it is recurrence or progression of disease.*

**15. Please find out if “60 days” is the literal translation or approximation of two months.**

*A. 60 days is consecutive calendar days.*

**16. Are you stating that any tumor recurrences noted after the site-specific timeframe allowed is to be counted as a new primary even if the clinician calls**

**this new tumor a recurrence from the original tumor? Hospital registrars are extremely concerned that they will not be able to document tumor recurrences with these new rules.**

*A. The CoC clinical advisors were consulted and their suggestions were incorporated into these new rules. Contact the CoC if you and or your cancer committee have concerns regarding how these rules affect your facility's cancer program.*

**17. How are other bilateral organs abstracted? For example, bilateral kidneys, ovaries, retinoblastomas?**

*A. Kidney M4 states tumors in both right and left kidneys are multiple primaries unless the tumor in one kidney is documented to be metastatic from the other kidney. Other Sites M4 states to abstract bilateral retinoblastomas as a single primary. Other Sites M7 states to abstract bilateral epithelial ovarian tumors (8000-8799) diagnosed within 60 days of one another as a single primary.*

**18. What happens if you make the wrong choice in the “Multiple Tumors” section of the rules?**

*A. If the incorrect selection is made when assessing whether multiple tumors are abstracted as a Single Primary or as Multiple Primaries, you may end up generating the wrong number of abstracts for the case. It is very important to carefully read each rule to see if it applies to the case you are abstracting. If not, you continue down the rule hierarchy.*

## **Breast – Multiple Primary and Histology Coding Questions**

### General

**1. Does neoadjuvant therapy affect the multiple primary rules?**

*A. Per SEER (4/25/07), neoadjuvant therapy has no affect on determining histology using the MPH rules.*

**2. Do these new rules overwrite the “Complex Morphology Coding Rules” ?**

A. *DSQC Statewide Memo 2006-01 replaced the Complex Morphology Coding Rules. These new rules apply for cases diagnosed January 1, 2007 forward.*

**3. If you only have the pathology report CAP protocol information and it does not include a final diagnosis, which fields of the protocol would be used to determine the histology and if there is carcinoma in situ present?**

A. *SINQ 20071048 states: If the CAP protocol is used in lieu of a final diagnosis, use all of the information in the CAP protocol.*

**4. Why can't we use the microscopic on breast cases?**

A. *SEER FAQ #1 states: Were your pathologists aware that you coded from the micro before? Pathologists were surprised when they learned that registrars have been incorrectly using the details described in the microscopic for coding and support the use of coding from the final diagnosis. The micro describes everything the pathologist sees (pieces of the puzzle) and not the overall impression of the tumor. When the pathologist dictates the final diagnosis they are describing their overall interpretation and using their expertise to make the diagnosis.*

**Multiple Primaries**

**5. M4. If the second digit of the ICD-0-3 code is different isn't that a different primary site?**

A. *Yes. This rules states if you have different primary sites, you have multiple primaries.*

**6. M6. Inflammatory carcinoma in one or both breasts. It does not state the inflammatory carcinoma must be from the final pathologic diagnosis. Can a clinical diagnosis of inflammatory carcinoma be used to determine multiple primaries?**

A. *M2 and M6 refer to pathologically confirmed inflammatory carcinoma only.*

**7. If there is an inflammatory carcinoma in one breast and a non-inflammatory in the other breast, is this a single or multiple primary?**

- A. *M7 states these would be multiple primaries. If you get a case like this, submit it to the CCR Inquiry System. More factors may need to be considered.*

**8. When there is an invasive tumor following an in situ tumor within 60 days, is the behavior coded to invasive?**

- A. *Yes, code the behavior to invasive.*

**Histology**

**9. H1. Can histology from radiology be used?**

- A. *Apply the priority order for using documents to code histology when there is no cytology or pathology report available. Histology from radiology cannot be used for in situ tumors.*

**10. What is the difference between H3 and H6?**

- A. *H3 states to code a more specific histologic term, if available. An example would be if the pathology report stated “intraductal carcinoma, cribriform type”. This would be coded to ductal carcinoma in situ, cribriform type, 8201/2. **H6 has a correction.** It should state that you would have an intraductal carcinoma and two or more specific intraductal types or two or more intraductal carcinomas. An example would be if the pathology report stated “in situ carcinoma, papillary and cribriform type.” You would have already eliminated any comedocarcinoma combinations using H4 and the lobular and ductal combinations are eliminated in H5.*

**11. H4. Is comedonecrosis the same as comedocarcinoma?**

- A. *No, they are not the same. Comedonecrosis is defined as a type of necrosis occurring with glands in which there is central luminal inflammation with devitalized cells, usually occurring in the breast intraductal carcinoma. Comedocarcinoma is characterized by solid sheets of high grade malignant cells and central necrosis.*

**12. H6. Should it state “more than one specific type” rather than “one or more specific type”?**

- A. *Yes, there is a correction to H6. It should state that a combination of intraductal carcinoma and two or more specific intraductal types or two or more intraductal carcinomas.*

**13. If the pathologist does not use terminology in Table 1 or Table 2 can you use it?**

- A. *Only use the terminology in Table 1 or Table 2. Remember, the words “pattern” and “architecture” are not used for invasive tumors. If these terms are used with invasive tumors, consult the pathologist.*

**14. If a breast cancer has both invasive and in situ components, the in situ component is ignored?**

- A. *Correct, code to the invasive, H9. The invasive component determines prognosis and survival.*

**15. Usually inflammatory carcinoma of the breast is a clinical diagnosis.**

- A. *Correct. Inflammatory carcinoma is a clinical manifestation of ductal carcinoma. H13, Use the histology code for inflammatory carcinoma only if it is stated in the final diagnosis of the pathology report.*

**16. How is a ductal and lobular carcinoma combined with other subtypes coded? 8522 or 8523?**

- A. *H16 states to include subtypes of ductal when selecting code 8522.*

**Cases**

**17. Case #2. This case has both DCIS with cribriform pattern.**

- A. *Pattern is a descriptor that indicates a specific type of ductal carcinoma in situ (Table 1), therefore this case is coded to 8201/2 ductal carcinoma in situ, cribriform type.*



**18. Case #3. If at diagnosis the tumor was a single ductal carcinoma, and on day 61 during the work-up there is a lobular, how is this abstracted?**

- A. *This is would be reported as a single primary if the patient is still undergoing diagnostic work-up greater than 60 days. SEER FAQ#17 states: When the invasive component is discovered as part of the work-up phase leading to treatment decisions, the case would be abstracted as a single primary. In the rare instance when a patient has not been treated and is still having diagnostic work-up greater than 60 days after the malignancy is diagnosed, do not count the invasive diagnosis as a new primary.*

**19. Case #5. Are the descriptors apocrine and metaplasia ignored?**

- A. *Yes.*

**20. Case #9 It was noted that there was no documentation in the histology rules regarding needing a percentage of mucinous component, such as noted in the colon rules. Do we need a percentage in order to be able to code mucinous carcinoma of the breast? See Breast case #9.**

- A. *Unlike colon, a percentage of mucin is not needed to code mucinous carcinoma of the breast. Code the histology from the final diagnosis. If the final pathology report states mucinous/colloid carcinoma, code it as such.*

**21. Case #9. Answer sheet states to code to colloid carcinoma. Please explain which rule was used to derive that code.**

- A. *In case #9, there are 2 tumors and Multiple Primary rule M12 applies, which states that "Histology codes are different at the first, second or third number," are multiple primaries. Tumor #1 is an invasive ductal carcinoma. Tumor #2 is invasive ductal carcinoma with extensive mucin production (colloid carcinoma). This is an example of when to apply rule H17, code 8523. Note: This answer is updated from the answer sheet provided at the 2007 Data Changes training. The SEER Breeze session dated 12/15/06 clarifies the answer. Unlike colon, colloid carcinoma in the breast does not need to have a percentage of mucin identified to code it as such.*



## Colon – Multiple Primary and Histology Coding Questions

### General

**1. Can we only use the final diagnosis and ignore the microscopic gross description?**

A. *The general instructions indicate to only use the final diagnosis from the pathology report, unless there are site specific exceptions. The colon is one of the site-specific exceptions to this rule. Use the entire medical record to look for references to polyps associated with the malignancy. Use the microscopic description in the pathology report to determine the mucin/colloid and signet ring cell component status.*

**2. What does “frank” mean?**

A. *Per the Terms and Definitions section for colon, this is adenocarcinoma arising from the colon wall. The malignancy did not originate in a polyp.*

**3. What code is used when the physician states malignancy, NOS?**

A. *Unless the physician will state a more specific diagnosis, code to 8000/3. SINQ 20051115*

**4. A colon cancer patient receives adjuvant chemotherapy. After two cycles the chemotherapy is stopped due to complications. Seventeen months after the initial diagnosis, there is a recurrence at the anastomosis site at another facility. All of the physicians at the second facility make clear statements that this is a recurrence. Because this recurrence is over one year from the original diagnosis, this would be considered a new primary according to the MPH rules. We would lose the fact that the patient failed due to lack of adjuvant treatment.**

A. *Include treatment text documentation why the chemotherapy was stopped. Yes, per the MPH rules, this would be considered a new primary, unless the pathologist states the tissue from anatomosis site is stated to be a recurrence from the original tumor.*

Multiple Primaries

5. Does M5, diagnosed more than one year apart, apply unless the pathologist calls it a recurrence?

A. Yes

6. Regarding M6, an invasive tumor following an in situ tumor more than 60 days after diagnosis - does this apply if the patient goes on a trip?

A. SEER FAQ#17 and SINO 20071023 state: When the invasive component is discovered as part of the work-up phase leading to treatment decisions, the case would be abstracted as a single primary. In the rare instance when a patient has not been treated and is still having diagnostic work-up greater than 60 days after the malignancy is diagnosed, do not count the invasive diagnosis as a new primary.

7. Regarding M6 - What if the invasive tumor was diagnosed 61 days later?

A. Report as a new primary

Histology

8. In H1, is it hierarchial within radiology?

A. No, use the best information from the various radiology sources to determine histology.

9. Sometimes the polyp information is not in the final diagnosis.

A. Per the site-specific MPH rules for colon, registrars can use any reference or statement in the medical record indicating that this malignancy is related to a polyp. This includes the gross and microscopic sections of the pathology report. This is a site-specific exception to the General Instructions indicating that only the final diagnosis of the pathology report can be used to code histology.

10. Sometimes a pathology report from a biopsy states that the carcinoma was arising in a polyp but the surgical resection did not mention anything regarding a polyp.

A. *If there is any reference to a pre-existing polyp in relation to the colon malignancy in the medical record, use the appropriate polyp histology code.*

**11. If the CAP protocol pathology report tumor configuration is described as “polypoid”, would H4 be used? There is no further information in the medical record regarding polyps.**

A. *Polypoid means like a polyp but this term **should not** be used to apply a polyp histology code, (confirmed by SEER, 4/26/07).*

**12. Why is H4 used when there is no information that the pre-existing polyp(s) is malignant?**

A. *It is important to capture the fact that the malignancy is associated with a polyp, regardless of whether the pre-existing polyp was malignant or not.*

**13. If the tubulovillous adenoma is in situ and the other polyp(s) have an invasive component, does tubulovillous still have priority and should H18 be applied?**

A. *SINQ 20071049 states: Always give precedence to coding the invasive. Rule H18 applies UNLESS the adenocarcinoma in the tubovillous adenoma is in situ and the others are invasive. In this case, code the histology of the invasive adenocarcinoma. This clarification will be added when the MP/H manual is revised.*

**14. How do you want us to document “polyp” when we found this statement in the microscopic section of the pathology report?**

A. *If the reference to a polyp was noted in the microscopic section of the pathology report, you can document it in the pathology section. The location of the documentation on the abstract is not as important as the fact that it is documented within the abstract where you found the reference to the polyp in the medical record.*

**15. Are the MPH rules used to code tumor size in polyps?**

A. *No, the MPH rules are to only be used for determining multiple primaries and coding histology. Do not use the rules to determine stage, reportability, tumor size, tumor grade, etc.*

**16. Please clarify the difference between H5 and H6.**

- A. *Apply H5 (code 8480 or 8490) if the final diagnosis in the pathology report states mucinous/colloid carcinoma or signet ring carcinoma or there is documentation in the microscopic description that 50% of the tumor is described as mucinous/colloid or signet ring cell. Apply H6 (code 8140) if the tumor is described as having less than 50% mucin/colloid or signet ring cell in the microscopic description or if the percentage of mucin/colloid or signet ring cell component is unknown.*

**17. Does the pathology report have to state the percentage of mucin 50%, 60%, etc., or can we use the statement “majority of the tumor” to code mucin?**

- A. *No. There must be documentation that the tumor contains mucin elements of 50% or more in order to code the histology to mucin/colloid or signet ring. SEER FAQ #15 states: The new rules specifically instruct the registrar to code the histology to “adenocarcinoma, NOS” when the percentage of mucinous or signet ring cell carcinoma is unknown.*

**18. Do we have to have a percentage of the mucinous component in order to apply rule H7 (mucinous/colloid and signet ring)?**

- A. *No, a percentage is not necessary, however, the final diagnosis on the pathology report must state “mucinous/colloid and signet ring carcinoma”*

**19. How do we code when there is no mention of the percentage of mucin/colloid or signet ring; H5.**

- A. *Go to the next rule that applies. Rule H6 states that the percentage of mucinous or signet ring cell ca is unknown.*

**20. What are examples of “more specific terms” in H13?**

- A. *Scirrhus carcinoma, 8141, and giant cell carcinoma, 8031 would be examples of more specific terms.*

**21. H8- How is “carcinoid tumor (Neuroendocrine)” coded?**

- A. *Code 8240, carcinoid tumor*

- 22. If the polyp contained a mucinous component is the histology coded to mucinous or polyp?**
- A. *Apply H4, code to polyp.*
- 23. Regarding H19 and H20- If there was less than 100 polyps and you were going through the “Multiple Tumors Abstracted as a Single Primary,” you would stop at H19 and code 8221 and never get to H20 to code 8263 which may be the specific histology of those polyps.**
- B. *That is correct, H19 has priority over H20. SEER clarification (4/26/07) carcinoma must be seen in at least 2 polyps to apply H19.*
- 24. The note for H20 states “adenocarcinoma originated in a polyp” What if we do not have a note specifically stating the polyp is where the adenocarcinoma originated; what if the adenocarcinoma is a separate entity then the polyp?**
- C. *If the procedure was done due to polyps and a malignancy was found, regardless of the polyp behavior, code the malignancy to the histology code with the polyp component.*

## Cases

- 25. In regards to colon case #2- Is this case coded to villous adenoma because it is villous polyps?**
- A. *Yes.*
- 26. Colon case # 4, if more than one subsite what is the subsite code?**
- A. *C18.9*
- 27. In regards to colon case #5 Please clarify if the tumor at 86 cm is invasive or not.**
- A. *The tumor is non-invasive.*
- 28. In regards to colon case #6- The first pathology report states ascending colon and the second pathology report states cecum. Why code cecum?**
- A. *The second pathology report came from the resection, which reflected that the tumor was in the cecum,*

**29. Colon case #7, Item G states “metastatic adenocarcinoma involves at least four out of forty-one lymph nodes.**

- A. *Code the histology from the primary site, final diagnosis from the pathology report, which in this case states adenocarcinoma, signet ring and mucinous types. We would apply rule H7, and code the case to 8255/3.*

**30. Colon case #7, do the proportions matter?**

- A. *No, because adenocarcinoma, signet ring and mucinous types is in the final diagnosis.*

<b>2007 New Data Items</b>
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**General**

**1. Will an update to any of these fields generate a correction record?**

- A. *Yes, all the new data items will generate a correction record.*

**2. Will there be an impact to the state reporting facilities where they are not required to perform follow-up?**

- A. *Yes, this means that every case has the potential to be reviewed and the case updated during the casefinding process.*

**3. Will there be consolidation of these data items at the central registry?**

- A. Yes

## **Multiplicity Counter**

4. **How will Multiplicity Counter effect the follow-up information? For example, now that 5 years is the time frame for counting recurrences, would another tumor and subsequent resection be considered as a recurrence? Would this be considered subsequent treatment or would you code this as the date of multiple tumors and the code the surgical resection as First Course of Treatment?**
  - A. *Code recurrences in the Multiplicity Counter using the site-specific MPH rules time frame parameters. Once a date is entered in the Date of Multiple Tumor field, it does not change see #7. Treatment for recurrence is coded as subsequent treatment.*
  
5. **How much documentation is needed to document a change in these fields?**
  - A. *A brief statement of why the data item was changed, such as “subsequent tumor diagnosed” for a change in Multiplicity Counter.*
  
6. **Multiplicity Counter is changed only if number of tumors changes within one year from diagnosis date per the SEER FAQ or per site specific rules for breast, lung, etc. ?**
  - A. *Change the number of tumors reported as a single primary per the MPH site specific timeframes.*
  
7. **Is the Date of Multiple Tumor field changed when the Multiplicity Counter is changed?**
  - A. *No. Once a case has a date entered in the Date of Multiple Tumor field, do not change it. This data item captures the date the single tumor became a multiple tumor abstracted as a single primary. This can occur at the time of diagnosis or at a subsequent date. If the Date of Multiple Tumor field has a date entered, do not change this date with each change in the Multiplicity Counter.*
  
8. **Will the Date of Multiple Tumors and the Date of Conclusive Terminology fields be coded the same?**
  - A. *No, they are independent of each other. The Date of Multiple Tumors is related to the Multiplicity Counter. The Date of Conclusive Terminology is related to the Ambiguous Terminology data item.*

- 9. A pathology report states “there are at least a certain number of lesions (for example: at least 5 lesions), is the actual number coded or is it coded 99?”**

A. *Code 99*

- 10. Does this data item include in situ polyps after an invasive diagnosis?**

A. *SINQ 20071043 states: If an in situ tumor following an invasive tumor is a single primary according to the multiple primary rules for that particular site, include the in situ and the invasive tumors in the multiplicity counter.*

- 11. How do you code the Multiplicity Counter if you do not know if you have multiple tumors?**

A. *Per the multiple primary rules, if you do not know if you have single or multiple tumors, use the default and code the Multiplicity Counter to 99- It is unknown if there is a single tumor or multiple tumors . This is one of the corrections to the MPH Manual per the New Data Item Breeze session: the coding instructions on page 340 of the Coding Manual under coding instruction 4c (we [SEER] will send a notice that this correction will be forthcoming) that instruction should be moved down under number 6. It inadvertently continued under number 4 and this is an indication of when to use code 99. Use code 99 when it is unknown whether there is a single tumor or multiple tumors.*

### **Date of Conclusive Terminology**

- 12. Is there a timeframe for this field? How far beyond the 60 days can this field be coded?**

A. *SINQ 20071044 states: There is no strict timeframe for Date of Conclusive Terminology. The diagnosis using conclusive terminology could be made any time following the diagnostic work-up. The date of conclusive terminology is related to code 2 [ambiguous term followed by conclusive term] in the data item "Ambiguous terminology." Assign code 2 when a conclusive diagnosis is made 60 days or more after a diagnosis using ambiguous terminology. Record the date of the conclusive diagnosis in "Date of Conclusive Terminology."*

- 13. If several physicians use ambiguous terms and then one physician makes a conclusive statement, how is this coded?**



- A. *Code the conclusive terminology statement. Depending on the timing, if it is within 60 days, use code 0- Conclusive Terminology. If the conclusive statement was made after 60 days, use code 2- Ambiguous Terminology followed by Conclusive Terminology. Reminder: Use all sources of information to look for a conclusive statement, such as lab tests, scan findings, path/cytology reports, in addition to statements from a physician.*

14. For abstractors who do concurrent abstracting, this data might apply but for those who wait for four to six months this item may not need to change.

A. *Correct.*

### Ambiguous Terminology

15. Is the Ambiguous Terminology field open-ended in terms of timeline?

- A. *Yes, Ambiguous Terminology is coded positive until such time, if ever, Conclusive Terminology is used for that primary.*

16. It seems there is some confusion in the statement for the rules for Code 1 and Code 2. Should the definition for Code 2 be changed to match the Time Frame?

- A. *Per SINQ 20071045 Code 1 definition states: "within 60 days", Code 2 definition states: "more than 60 days" but the Time Frame states "equal to or greater than 60 days". The definition for Code 2 should be "more than 60 days" after the date of diagnosis. Code 1 is 60 days or less, Code 2 is more than 60 days. This will be clarified in the first revision to the MP/H manual.*

17. Do pathologists know we will be using these Ambiguous Terms?

- A. *Registrars need to educate pathologists of these new coding rules and terms.*

18. Why was 60 days chosen for ambiguous terminology?

- A. *SINQ 20071046 states: The Histology Task Force approved a 60 day time frame for ambiguous terminology. The majority of cases are first identified by ambiguous terminology; for example, a patient has a mammogram that shows a lesion suspicious for cancer. That first indication of cancer prompts a work-up to either confirm or rule-out the cancer diagnosis. The data item "Ambiguous terminology" is not intended to capture information on this routine method of detecting and diagnosing cancer. The 60 day time frame should keep these cases out of the ambiguous terminology data item.*

*The data item is intended to identify those cases where the cancer diagnosis is NOT confirmed during the work-up, but the case is still entered into the database. For example a patient who has a TRUS because of elevated PSA. The pathology from the TRUS says "Suspicious for adenocarcinoma of the prostate." The physician only documents that the patient is to return in 6 months for another PSA and TRUS. The registrar would enter this case into the data base because the word "suspicious" is on the ambiguous terminology list.*

**19. Why was the term “accessioned” used? Would the term “abstracted” be a better term for this data item?**

*A. SINQ 20071047 states: The purpose of the new data item "Ambiguous Terminology" is to identify cases that were put into the cancer registry database without a conclusive diagnosis. The decision to accession the case was influenced by ambiguous terminology. The emphasis is on accessioning the case rather than abstracting it.*

**20. Has ACOS taken this data item with regard to patient follow-up?**

*A. Yes, there are detailed instructions in the ACOS' FORDS Manual.*

**21. What do you do with a pathology report with ambiguous terminology, where the biopsy is “consistent with adenocarcinoma” and the physician states “showing adenocarcinoma”. Is there a hierarchy?**

*A. There is no hierarchy but use the conclusive terminology. Remember that the registrar needs to provide text documentation to support codes.*

**DATA STANDARDS AND QUALITY CONTROL  
MEMORANDUM  
DSQC #2007- 04**

CATEGORY: RESCINDING PREVIOUS MEMOS  
SUBJECT: DSQC Memos 2007-01 and 2007-02  
EFFECTIVE: Immediately

As a response to the recent message from the Collaborative Staging Steering Committee with regards to the use of the list of EOD clinically apparent and inapparent terms for prostate cancer (see message below), the CCR has rescinded DSQC Memos 2007-01 and DSQC Memo 2007-02 and removed them from the CCR web site. This is effective immediately. DSQC Memo 2007-01 instructed registrars to use the list of clinically apparent and inapparent terms for prostate cancer and DSQC Memo 2007-02 reviewed the appropriate use of prostate CS Extension codes 15 and 30.

Registrars are not required to go back and review or recode cases already submitted to the regional registry.

Also effective immediately, discrepancies for prostate CS Extension codes within the range of 13-30 will not be counted. However, prostate cases submitted with CS Extension code 30 that should actually be coded to a higher code, will still be visually edited and if miscoded, be counted as a discrepancy.

Registrars should continue to follow the instructions in the Collaborative Staging Manual and on the Collaborative Staging web site (FAQ section):  
<http://www.cancerstaging.org/cstage/faq.html>

Questions regarding this data item should be sent to the Commission on Cancer's Inquiry & Response System:  
<http://web.facs.org/coc/default.htm>

The Commission on Cancer's Inquiry and Response System and SEER SINQ (<http://seer.cancer.gov/seerinq/>) should also be checked regularly for additional information on how to code cases without reference to the list of clinically apparent and inapparent terms for prostate cancer.

The statement issued on August 31, 2007, by the Collaborative Staging Steering Committee is as follows:

*Clarification on the Use of Outside Resources for Coding Prostate Cancer*

*A great deal of confusion surrounds the interpretation of clinical reports with regard to whether the prostate cancer was apparent or inapparent. In 1998, SEER published an interpretation of "apparent" and "inapparent" terms for use in their Extent of Disease (EOD) Coding System for prostate cancer. This list was in effect for prostate EOD cases diagnosed in 1998-2003. There were several questions regarding whether this list could be used in Collaborative Staging (CS). After consultation with the AJCC curators for genitourinary disease, the CS Steering Committee has determined that the SEER list of terms for apparent and inapparent in the SEER Extent of Disease Manual is NOT to be used for interpreting reports for Collaborative Staging. While it was a convenient tool for registrars, the curators are of the opinion that the use of the list will lead to misinterpretation of reports. Rather, the curators recommend that registrars rely on a direct physician statement of apparent or inapparent disease for Collaborative Staging. It is not anticipated that prior cases will require review and recoding.*

DATA STANDARDS AND QUALITY CONTROL  
MEMORANDUM  
DSQC #2007-05

CATEGORY: CLARIFICATION  
SUBJECT: REPORTABLE BENIGN SCHWANNOMAS  
EFFECTIVE: CASES DIAGNOSED 1/1/2004 FORWARD

As a clarification, only benign Schwannomas (9560/0) of the cranial nerves are reportable to the CCR. Benign Schwannomas occurring in the spinal cord, peripheral nerves or peripheral nerve root are not reportable to the CCR.

The cranial nerves are composed of twelve pairs of nerves that emanate from the nervous tissue of the brain. Cranial nerves are sometimes referred to by their number, such as the 8th cranial nerve, instead of the vestibulocochlear nerve.

To assist registrars with identifying reportable benign Schwannoma tumors, the cranial nerve numbers, names and their ICD-O-3 topography codes are listed below:

- I Olfactory (C72.2)
- II Optic (C72.3)
- II Oculomotor (C72.5)
- IV Trochlear (C72.5)
- V Trigeminal (C72.5)
- VI Abducens (C72.5)
- VII Facial (C72.5)
- VIII Vestibulocochlear (auditory and vestibular nerve) (C72.4)
- IX Glossopharyngeal (C72.5)
- X Vagus (C72.5)
- XI Accessory (C72.5)
- XII Hypoglossal (C72.5)

Example of a reportable Schwannoma:

- Vestibular Schwannoma, also known as acoustic neuroma (C72.4 M-9560/0)

Registrars are not expected to go back and review Schwannoma cases already submitted to the CCR.

*References: DSQC Memo 2005-01  
SINQ 20041097, 20051127  
<http://www.cdc.gov/cancer/npcr/training/btr/clarification.htm>*

DATA STANDARDS AND QUALITY CONTROL  
MEMORANDUM  
DSQC #2007-06

CATEGORY: REFERENCE DOCUMENT  
SUBJECT: BENIGN BRAIN AND CNS MULTIPLE PRIMARY AND  
HISTOLOGY CODING RULES  
EFFECTIVE: CASES DIAGNOSED 1/1/2004 FORWARD

Reformatted versions of the Benign Brain and CNS Rules have been developed by NCI SEER and approved by the Registry Operations Committee (ROC) of NAACCR. The rules have not been changed, only formatted to the Multiple Primary and Histology Coding Rules standard. The rules are available for downloading at [http://seer.cancer.gov/tools/mphrules/benign\\_brain.html](http://seer.cancer.gov/tools/mphrules/benign_brain.html).

You will find a set of Equivalent Terms and Definitions as well as the rules in all three formats: text, matrix, and flowchart.

**How to Use Prostate Extension Codes 33 and 34**

Source: DSQC #2000-01 Guideline: Prostate Extension Codes 33 & 34, 01/24/00

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The CCR realizes that medical record information is limited regarding tumors arising in or extending to the apex. In order for registrars to code extension consistently, the following operational rules apply. These rules apply to assigning both clinical and pathological extension codes.

Use code 33 when the apex is the only area identified as involved with tumor.

*Example:* Biopsy of the apex is positive for adenocarcinoma. Biopsies of right and left lobes are negative for malignancy.

Use code 34 when the apex and any other sections of the prostate are positive for tumor.

*Example:* Biopsies of left and right apex and left posterior lobe positive for adenocarcinoma.

**Coding EOD for Non-Surgical Cases with Limited or Ambiguous Information**

Source: DSQC #2000-02 Guideline: EOD for Non-Surgical Cases, 02/28/00

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EOD coding works well for cases that are surgically treated such as colon and breast. EOD is not as accurate for cases that do not have a surgical resection. When EOD coding is based exclusively on clinical information

(physical exam, scans, and scopes), the results may be interpreted differently. When clinical information is limited, and there is no physician staging, use the following guidelines.

**LIVER**

Use available information.

Example: Ultrasound of the liver showed a 2 cm. mass in the left lobe and a 3 cm. mass in the right lobe. Biopsy results stated hepatocellular carcinoma. No other work-up. Use code 65 rather than code 99.

**LUNG**

Lung primary with limited information and no MD staging.

If CT does not mention tumor outside lung, use extension code 10.

Note: CXR may not be used to determine tumor extension outside the lung.

Note: If there is no lung CT, tumor size can be coded from the CXR.

CT makes no mention of mediastinal adenopathy, follow the CCR 0 vs. 9 memo for the single digit lymph node code.

**NODAL LYMPHOMA**

Lymphoma primary with biopsy only, limited information, and no MD staging.

Physical exam must contain statement regarding all palpable lymph nodes or a statement such as "no other adenopathy", "examination within normal limits", or "remainder of exam within normal limits".

There must be a CT of chest and abdomen.

If the above two criteria are not in the medical record then use extension code 99.

Example: Patient presents with cervical mass, which is biopsied and positive for lymphoma. No other information in medical record. Code 99.

**PANCREAS**

Obstruction, NOS.

Carcinoma of the head of pancreas causes obstruction of the common bile duct. When there is no information to determine if the obstruction is caused by direct extension into the common bile duct or extrinsic obstruction due to an enlarging mass localized in the head of pancreas and surrounding the common bile duct, use code 99.

**General Visual Editing Guidelines**

Source: DSQC #2000-03 Guideline: General Visual Editing Guidelines, 02/28/00

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The visual editor will not change a code and count a discrepancy unless standard cancer registry reference materials can support the change. These reference materials include:

- Volume 1, California Cancer Registry
- SEER Extent of Disease Manual
- ICD-O
- CCR Inquiry System
- SEER Inquiry System
- CCR/Data Standards and Quality Control Unit memos and guidelines imprinted with "Statewide Distribution"
- Volume 2, ROADS
- ACOS Inquiry and Response System

**Ambiguous/Inconsistent Information**

The registrar is responsible for clarifying ambiguous information. If there is conflicting information in the medical record, it is the responsibility of the registrar to try to obtain physician staging or clarification and to document this information on the abstract prior to submitting the abstract. If no further information was obtainable/available prior to submitting the abstract, the registrar should document on the abstract that no further information was available prior to submitting the abstract.

Example: When a CT mentions brain lesions, lytic lesions, adrenal masses, or other descriptions that may indicate metastases, and there is no physician statement to clarify the ambiguous description, the registrar must try to obtain physician staging or clarification and to document the outcome on the abstract before submitting the abstract.

Example: The physical examination states there is a lesion in the right cervical area. Op report states the lesion is on the left. CT scan states the lesion is on the right. The pathology report does not state which side the biopsy was taken from. The registrar should state in the remarks section "no further information available to determine on which side of the neck the lesion was located." Therefore, the primary site [or extension, lymph node EOD, etc.] was coded as unknown [or NOS].

**Query vs. Discrepancy**

If a code is not supported by documentation on the abstract, then it will be counted as a discrepancy.

Example: The abstract has the tumor size coded as 024, but there is no mention of the tumor size anywhere in the text of the abstract.



Tumor size will be changed to 999 and this will be counted as a discrepancy.

If the registrar does not clarify ambiguous information, then it will be counted as a discrepancy.

Example: The abstract has the following information submitted: patient name as Mei Ling Chang, race as white, Spanish as Cuban. The region will query the registrar for correct race and Spanish code. In addition, this will be counted as a discrepancy since the registrar did not clarify the ambiguous information in the original text of the abstract.

#### **New Information/Guidelines**

New information regarding abstracting standards is sent by the CCR to the regional registries for distribution to all registrars. Discrepancies resulting from this new information will not be counted for one month (30 days) after statewide distribution. The Date Completed on the abstract will be the date the visual editor will use to calculate the 30 day time frame.

Example: The Guideline for Prostate Codes 33 and 34 has a January 24, 2000, Statewide Distribution date. Information contained in the guideline will not be counted as a discrepancy unless the Date Completed on the abstract is later than February 24, 2000.

#### **Extension Code Unknown (99)**

If you know the extent of the tumor is at least regional but are not sure if it is more than that, and there is no physician TNM, code to regional.

Example: Chest CT: 4 cm pleural based mass RUL with mediastinal adenopathy. Questionable mass right adrenal gland. If querying the physician for more information regarding stage has no results: code as regional rather than unknown.

#### **Ambiguous Terms Not Listed in Vol. 1**

If a term or description used is not included in the ambiguous terms for diagnosis or involvement in Vol. 1, page 87 and 98 or SEER EOD Code Manual, page 2, but the language is commonly understood to mean diagnostic or involvement, then accept the term or description.

Example: CT showed an 8 cm. mass in the right kidney that "must be considered a hypernephroma until proven otherwise." Interpret as diagnostic.

If a physician states that an organ is malignant and the only abnormal findings on a scope, scan, or operative report describe a mass, nodule(s) or lesion(s) in that organ, it can be assumed that the mass, nodules or lesions represent the malignancy.

Similarly, if a physician states that an organ is involved with metastasis, and the scope, scan or operative report only describes a mass, nodule(s) or



lesion(s) in that organ, you can assume that the mass, nodules or lesions represent the metastasis.

Example: Chest CT: right pleural effusion; 2 lesions, one in RUL and one just inferior to this; nodules left lung in mid lung and 3 densities in LLL. FDX: metastatic lung ca.

Discussion: Assume that the nodules and densities are metastases and code extension as 78, contralateral lung.

#### **Ambiguous TNM**

In order to use the guideline for TNM in the SEER EOD manual, 3<sup>rd</sup> Edition, General Instructions, the TNM coder must be the physician (codes 1-4). If the TNM coder is the physician and registrar (code 6), the abstractor must document which element (T,N,M) the physician coded. If no documentation is provided, the TNM information will be disregarded and the visual editor will code extent of disease from all of the submitted documentation.

#### **Day of Month for Four Month Rule for Coding EOD**

For coding EOD when the day of the month is unknown, use information up through the last day of the fourth month, or until the completion of first course of treatment.

Example: Date of Diagnosis is 02/99/1999. Use information through 06/30/1999, or through first course of treatment.

#### **CCR Statement Concerning Use of Colonoscopy Measurements for Assigning Colon Subsite Code**

Source: DSQC #2000-04 Policy: Use of Colonoscopy Measurements, 03/08/00

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There are numerous references and training guides available that provide approximate measurements of the segments of the large colon. These measurements can vary several centimeters per segment. If there is no other information given regarding subsite except for the measurement given in the colonoscope, the measurement may be used to assign subsite. If the colonoscope measurement is used to assign a specific subsite, the CCR's standard reference is the colon diagram in the *AJCC Cancer Staging Manual, 5th Edition*.

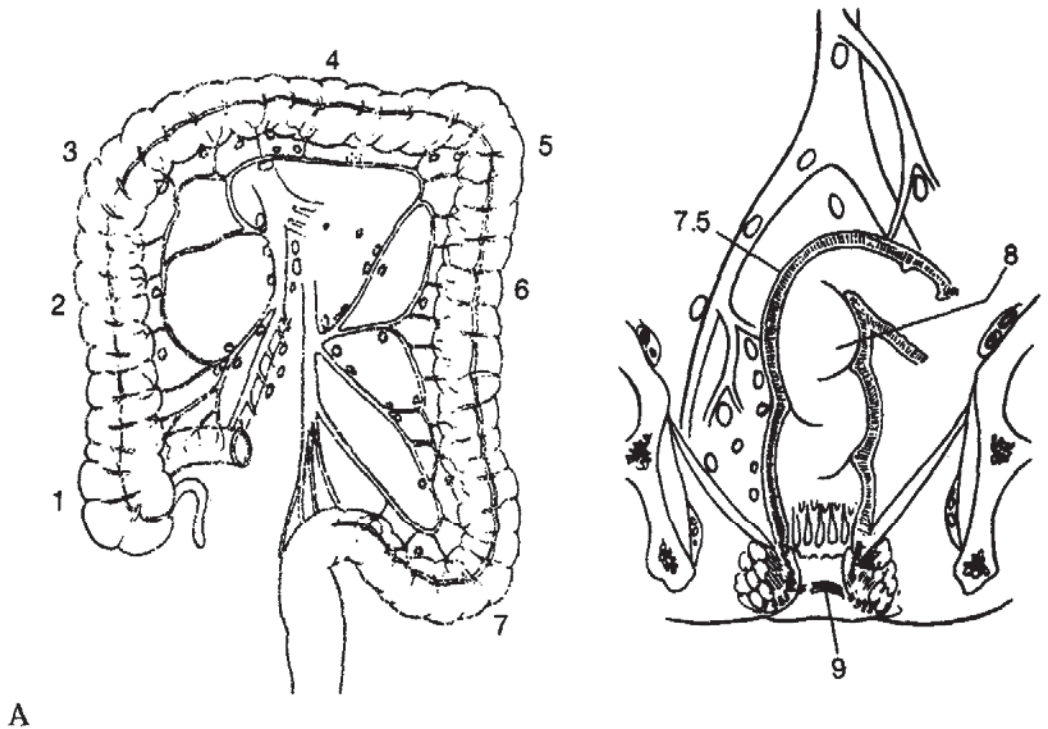
If there is conflicting information in the medical record with regard to subsite and there is no surgical resection, code the subsite as stated by the physician. If there is a surgical resection, code the subsite as stated in the operative report, or a combination of the operative report and pathology report.

With regard to visual editing, if a case is coded to subsite .9 by the abstractor, the visual editor may change the code to a more specific subsite

based on the CCR's standard reference, but this will not be counted as a visual editing discrepancy. Conversely, if the abstractor uses the colonoscopy information to assign a more specific subsite to a .9, this will not be counted as a discrepancy.

**From *AJCC Cancer Staging Manual, 5th Edition*, page 85.**

**Anatomic Areas of Colon and Rectum**



	MEASUREMENT FROM ANAL VERGE	AVERAGE SEGMENT LENGTH	
		GRAY'S	TNM
Anus	0-4 cm	4 cm	4-5 cm
Rectum	4-16 cm	12 cm	12 cm
* Rectosigmoid	(at 15-17 cm)		
Sigmoid	17-57 cm	40 cm	n/a
Descending	57-82 cm	25 cm	10-15 cm
Transverse	82-132 cm	50 cm	n/a
Ascending	132-147 cm	15 cm	15-20 cm
Cecum	at 150 cm	6 cm	6 cm

(Total length of large intestine approximately 150 cm).

\* The rectosigmoid is of anatomic and surgical importance because of the blood supply and the disappearance of the mesosigmoid. While the rectosigmoid is truly a junction, some authors include 1 inch of the sigmoid above and 1 inch of rectum below and refer to it as the rectosigmoid region.

**B** These measurements are APPROXIMATIONS ONLY. Each person is different and these measurements should be used as GUIDELINES ONLY.

**FIG. 12-1.** The anatomic areas of the colon and rectum are: cecum (1); ascending colon (2); hepatic flexure (3); transverse colon (4); splenic flexure (5); descending colon (6); sigmoid (7); rectosigmoid (7.5); rectum (8); anal canal (9).

**Breslow Thickness and Clark Level of Invasion**

Source: DSQC #2000-05 Clarification: Breslow Thickness and Clark Level of Invasion, 03/08/00

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**Question:** If only the thickness is given in the final diagnosis, can this be used to determine EOD extension along with the microscopic description?

Example: Can depth of invasion 1.7 mm (ulcerated) be converted to Clark's Level IV which equals extension 31?

**Answer:** No, depth of invasion cannot be converted to a "Clark" level and then to an EOD extension code. The correct answer for this question is TS 170 and EOD extension 41, involvement of the skin/dermis, NOS with ulceration. A researcher analyzing melanomas could include this case if studying "Breslow" measurements but not include it if studying "Clark" levels.

Per April Fritz and Carol Johnson, SEER, "Breslow" thickness and "Clark" level of invasion are completely separate measurements. There is not an exact correlation between the measured depth of the tumor and the invasion of the individual layers of the skin because measurements (depth) of the layers of skin vary from person to person and anatomic site to anatomic site. All you know about the case is that the melanoma measured 1.7 mm and was ulcerated. In a heavily calloused area, 1.7 mm could be above the papillary-reticular dermal interface or into the reticular dermis--you just don't know.

AJCC states to assign a T3 if a Breslow's thickness between 1.5 and 4 mm deep can be proven or Clark's level I, invasion of the reticular dermis, can be proven. It does not state that tumor between 1.5 and 4 mm is equivalent to Clark's level IV.

#### **Focus, Focal and Foci**

Source: DSQC #2000-06 Clarification: Focus, Focal and Foci, 03/08/00

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**Question:** Does the term focal mean the same thing as focus and foci when coding tumor size?

**Answer:** No. Focus and foci are microscopic descriptions and are coded 001 when no other information is available. Focal refers to an area of involvement, focal should be coded 999.

The SEER Inquiry System Question and Answer #75 (4/94) states focus, focal and foci are variations of the same word. At the 5/99 SEER Coder and Abstractor Workshop, an answer was given which stated that focal does not equal focus and foci. Focal refers to an area of involvement. According to Carol Johnson, SEER, the 5/99 workshop response takes precedence over the SINQ question. It is a newer interpretation based on actual usage of the words in pathology reports.

Below are some examples of diagnoses from pathology reports followed by the correct tumor size.

- 1) focal adenocarcinoma - TS 999
- 2) microfocus of adenocarcinoma - TS 001
- 3) multiple foci of adenocarcinoma in specimen - TS 001
- 4) multifocal adenocarcinoma in specimen - TS 999
- 5) microscopic focus of adenocarcinoma in multiple fragments - TS 001
- 6) focal adenocarcinoma in chips - TS 999
- 7) focal adenocarcinoma in 5% of specimen - TS 999

#### Rescind Guidelines for Coding Prostate Clinical EOD

Source: DSQC #2000-07 Policy: Rescind Guidelines for Coding Prostate Clinical EOD, 03/08/00

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As you are aware, the Data Standards and Quality Control Unit has performed two separate recoding audits on cancer of the prostate during the past year. The results of these audits showed that the use of Guidelines for Coding Prostate Clinical EOD, dated August 10, 1998, had resulted in cases being coded unknown (Code 90) when there was sufficient information on the abstract to assign a more specific code. In addition, it was apparent that not all registrars and regions were using this guideline. We have decided to rescind the use of Guidelines for Coding Prostate Clinical EOD. Please use the instructions in the SEER Extent of Disease Manual for assigning and visual editing codes. This change will be effective with cases diagnosed January 1, 2000.

#### Clarification on Type of First Recurrence and Other Type First Recurrence

Source: DSQC #2000-08 Clarification: Clarification on Type of Recurrence, 05/05/00

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The California Cancer Registry received the attached memo to Software Vendors and State Cancer Registries dated, March 6, 2000, from the Commission on Cancer. It was also sent to hospital cancer registrars in January. This clarification refers to data items **1880 Type of First Recurrence** and **1890 Other Type First Recurrence** with regard to California Cancer Registry reporting requirements. Although the Commission recommends that software be changed to enable cancer registrars to use these two fields to report invasive cases initially diagnosed as in situ, the California Cancer Registry follows SEER reporting requirements for multiple primaries; therefore, these codes cannot be used to meet this requirement. Also, while it was the Commission's intention to take the responsibility for abstracting these cases away from hospital cancer registrars, the mechanism recommended would place the responsibility of abstracting the invasive case on the regional registries. In order to do this, the regional registry would

have to contact the hospital cancer registrar for the medical record information. The hospital cancer registrar would still be involved with reporting these cases.

Because the addition of these codes will not result in less work for either hospital or regional cancer registries, we require that hospital cancer registrars continue to follow the CCR/SEER reporting requirements by abstracting both the in situ and invasive cancer case.

#### **Clarification on Coding Non-Hodgkin's Lymphoma Histology**

Source: DSQC #2000-09 Clarification: Clarification on Coding Non-Hodgkin's Lymphoma Histology, 10/31/00

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The CCR has received a clarification from SEER regarding coding histology for Non-Hodgkin's Lymphoma. According to SEER, "Cases should be coded to the most current classification, either the Revised European-American Classification of Lymphoid Neoplasms (REAL) or the WHO, which is based on the REAL. The REAL, or WHO, classifies lymphomas according to the cell line (T or B or NK) from which the lymphoma arose. This reflects contemporary thinking in lymphomas." Therefore, the REAL, or WHO, classification has priority when coding Non-Hodgkin's Lymphoma. Ignore the SEER rule of coding to the highest morphology code number.

A document containing the REAL Classification of Lymphomas was distributed by the CCR in May 1998. Please refer to this document for the appropriate codes. If you do not have a copy of this document, contact your regional registry.

*This change is effective October 31, 2000. It is not necessary to go back and recode cases that have already been abstracted or transmitted.*

The CCR also wants to clarify how to code the term *malignant lymphoma, follicular center cell*. Code to 9690 - Follicular Lymphoma.

#### **Errata and Corrections to the Third Edition of Extent of Disease 1988**

Source: DSQC #2000-10 Clarification: Errata and Corrections to the Third Edition of EOD 1988, 10/31/00

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The California Cancer Registry received "Errata and Corrections to the Third Edition of Extent of Disease 1988" at the SEER Abstractors and Coders Workshop in Albuquerque, New Mexico in May 2000. Since its distribution at this meeting, it has been updated (July 1, 2000).

Many of the changes in this errata are editorial corrections to the Extent of Disease manual. There are some changes, however, that will require review

and recoding. These are noted in bold in the "Change/addition" column. There are also changes that were not bolded for review in the errata, but need to be reviewed and recoded. These are Soft palate, p. 2 - delete code 50, add code 65 for "Hard palate" and Liver, p. 3 - delete code 75, add code 62 for "Gallbladder."

The CCR is in agreement with SEER and requires that all of the changes in this errata take place immediately and are retroactive to cases diagnosed January 1, 1998 and later.

#### **Tumor Size for Combined *In Situ*-Invasive Tumor**

Source: DSQC #2000-11 Clarification: Tumor Size for Combined In Situ-Invasive Tumor, 12/18/00

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The CCR has received clarification from SEER regarding coding tumor size for *in situ*-invasive tumors when the *in situ* component is described as a minor component.

When a pathology report describes tumor size as invasive with a minor component of *in situ*, then code the total tumor size. Minor component is defined as: less than 5%, foci of tumor, or stated as "minor component."

#### **Data Changes for 2001**

Source: DSQC #2000-12 Guideline: Data Changes for 2001, 12/18/00

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As you are aware there are a couple of significant changes that are effective with cases diagnosed January 1, 2001. The first of these changes is the implementation of the third edition of the *International Classification of Diseases for Oncology (ICD-O-3)* and the other is the change in reporting legislation that requires the reporting of benign and uncertain behavior intracranial and central nervous system (CNS) tumors. The following will assist you in coding and collecting these cases.

#### **Intracranial and CNS Tumors**

Benign and uncertain behavior intracranial and CNS tumors are required effective with January 1, 2001 cases, as noted above. Since you will need to begin casefinding in January, two lists are attached to assist you. The first list includes intracranial and CNS histologies that are now reportable. The second list includes ICD-9-CM codes to assist you in casefinding in medical records. These tumors are to be sequenced following the American College of Surgeons' Commission on Cancer guideline for tumor sequencing, *i.e.*, alpha characters - AA for the first tumor, BB for the second, etc. With regard to staging these tumors, the CCR is not requiring that they be staged at this time. We recommend that you code EOD Extension 99 (Unknown) for these cases. If your registry uses SEER Summary Stage, we recommend that you code them to Code 9. There may be registries that have been collecting benign brain tumors prior to this change in legislation. If you have been assigning codes/stages to them in the past, we recommend that you



continue this practice. The CCR requires that follow up be performed on these cases in hospitals that routinely perform follow up to meet Commission on Cancer requirements.

#### ICD-O-3

The histology for cases diagnosed January 1, 2001 is to be coded using ICD-O-3. The histology for cases diagnosed prior to this date is to be coded using ICD-O-2. There will be separate fields available in CNExT for coding these histologies. There are histologies that changed from malignant to borderline and vice versa in ICD-O-3. One of these is juvenile astrocytoma - Code 9421 (see updated instructions). ~~The NAACCR Uniform Data Standards Committee voted to continue to collect these tumors. The CCR will also require that these continue to be collected; however, behavior should be coded /1(uncertain behavior) instead of /3 (malignant). The reason for collecting these as /1 is because of the new legislation requiring the collection of benign and uncertain behavior intracranial tumors. It was felt that it would be less confusing to collect these under the correct behavior code. Cases diagnosed prior to January 1, 2001 should continue to be coded /3.~~

Borderline ovarian tumors changed from malignant to borderline in ICD-O-3. The California Cancer Registry will require the continued collection of borderline ovarian tumors due to their potential to become malignant and because there are a number of studies underway in the state that include these tumors. They are also to be sequenced following American College of Surgeons guidelines for benign tumors. Behavior should be coded to /1 (borderline behavior). Although the behavior of these tumors has changed, follow up should be performed on these patients.

NAACCR formed an ICD-O-3 Working Group to address many of the questions that have been asked by both cancer registrars and cancer registry software vendors. A document entitled, *Guidelines for ICD-O-3 Implementation* was prepared to answer these questions. It was agreed that this document would be distributed widely by NAACCR, SEER and the American College of Surgeons' Commission on Cancer so you should be receiving it soon. It will also be available on the Web Sites of these organizations (SEER – <http://www.seer.cancer.gov>; NAACCR - <http://www.naacr.org>; COC - <http://www.facs.org>). If you have not received a copy of this document, we would recommend that you download it and review it carefully. It contains an appendix with the list of histology changes in ICD-O-3 that can be used in conjunction with your ICD-O-2 manual until you are able to obtain an ICD-O-3 manual.

As many of you are aware, SEER has developed a training module on ICD-O-3 that is on its Web Site. In addition, a videoconference is planned for January 9, 2001. Your regional registries will be providing you with information as to sites for the videoconference. The CCR, in addition, will be developing a document that will include all of the available sites in the state for those of you who may not be able to get to the videoconference in your region. As with the Surgery Codes videoconference, the CCR will be making copies of the videoconference to be provided to your regional registries for



those of you who will be unable to participate that day. We recommend your participation in both of these activities.

We will continue to provide you additional information regarding ICD-O-3 and benign and uncertain behavior brain tumors through your regional registries.

**Casefinding Benign and Uncertain Behavior Brain and CNS Tumors - ICD-O-3 Codes**  
*Based on WHO Classification of CNS Tumors and Central Brain Tumor Registry of the United States*

Source: DSQC #2001-01 Guideline: Casefinding Benign and Uncertain Behavior Brain and CNS Tumors, 03/27/01

<b>ICD-O-3 HEADING</b>	<b>NAME</b>	<b>CODE</b>
<b>Adenomas and Adenocarcinomas 814-838</b>	<i>Chromophobe adenoma</i>	8270/0
	<i>Prolactinoma</i>	8271/0
	<i>Pituitary adenoma</i>	8272/0
	<i>Acidophil adenoma</i>	8280/0
	<i>Mixed acidophil-basophil adenoma</i>	8281/0
	<i>Basophil adenoma</i>	8300/0
	<b>Nevi and Melanomas 872-879</b>	<i>Diffuse melanocytosis</i>
<i>Meningeal melanocytoma</i>		8728/1
<b>Germ Cell Neoplasms 906-909</b>	Benign teratoma	9080/0
	Teratoma, NOS	9080/1
<b>Miscellaneous 935-937</b>	Craniopharyngioma	9350/1
	<i>Adamantinomatous</i>	9351/1
	<i>Craniopharyngioma</i>	9352/1
	<i>Papillary</i>	9360/1
	<i>Craniopharyngioma</i>	9361/1
	Pinealoma Pineocytoma	
<b>Gliomas 938-948</b>	Subependymoma	9383/1
	Subependymal giant cell astrocytoma	9384/1
	Choroid plexus papilloma, NOS	9390/0
	Atypical chorioid plexus papilloma	9390/1
	Myxopapillary ependymoma	9394/1
	Desmoplastic astrocytoma of	9412/1
		9413/1
		9421/1
		9442/1
		9444/1

	infancy Dysembryoplastic neuroepithelial tumor Pilocytic astrocytoma Gliofibroma Chordoid glioma	
<b>Neuroepitheliomatous Neoplasms 949-952</b>	Ganglioneuroma Ganglioneuromatosis Gangliocytoma Dysplastic gangliocytoma of cerebellum Ganglioglioma, NOS Central neurocytoma Pacinian tumor	9490/0 9491/0 9492/0 9493/0 9505/1 9506/1 9507/0
<b>Meningiomas 953</b>	Meningioma, NOS Meningiomatosis Meningothelial meningioma Fibrous meningioma Psammomatous meningioma Angiomatous meningioma Hemangioblastic meningioma Transitional meningioma <i>Clear cell          meningioma</i> Atypical meningioma	9530/0 9530/1 9531/0 9532/0 9533/0 9534/0 9535/0 9537/0 9538/1 9539/1
<b>Nerve Sheath Tumors 954-957</b>	Neurofibroma <i>Neurofibromatosis</i> <i>Melanotic          neurofibroma</i> Plexiform neurofibroma Schwannoma Acoustic Neuroma <i>Neurinomatosis</i> <i>Neurothekeoma</i> <i>Neuroma</i> Perineurioma	9540/0 9540/1 9541/0 9550/0 9560/0 9560/0 9560/1 9562/0 9570/0 9571/0

**Race and Ethnicity Code Documentation**

Source: DSQC #2001-02 Guideline: Race and Ethnicity Documentation, 05/04/01

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All race codes must be supported by text documentation. This information must be documented in the Remarks or Physical Examination field, with the exception of race code 88 (no further race documented). Documentation should include each race and ethnicity specified and the source of this information. Search beyond the face sheet for a more specific race and/or ethnicity.

Examples of statements in the Remarks or Physical Examination field are as follows:

- Pt is Filipino per the H&P.
- Pt is Hispanic, NOS, per consult.
- Pt is Cuban per physician notes.
- Race is White per face sheet.
- No race information available in chart.

Replaced by DSQC #2002-06.

**Anal Intraepithelial Neoplasia, Grade III**

Source: DSQC #2001-03 Clarification: AIN Grade III, 05/04/01

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The CCR has received clarification from SEER regarding the reportability of Anal Intraepithelial Neoplasia (AIN), Grade III. In ICD-O-3, anal intraepithelial neoplasia, grade III, (C.21.1) is coded to 8077/2 and is reportable to the CCR beginning with cases diagnosed January 1, 2001 forward. Cases diagnosed AIN, Grade II-III, are also reportable beginning with cases diagnosed January 1, 2001 forward.

**Change in Reporting Pilocytic/Juvenile Astrocytoma**

Source: DSQC #2001-04 Clarification/Change: Pilocytic/Juvenile Astrocytoma, 05/04/01

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Pilocytic/juvenile astrocytoma – morphology code 9421 must be reported to the CCR with a behavior code of /3. This is a change from the instructions in the Data Changes 2001 statewide memorandum dated December 18, 2000, that stated to code these to a behavior of /1. This will allow the CCR to be compatible with SEER reporting requirements. These tumors will be sequenced as any other reportable malignancy, using digits, not alpha

characters. This will continue to allow sequence numbers to reflect the chronological order of reportable malignancies.

**Revised Guideline: Race and Ethnicity Code Documentation**

Source: DSQC #2001-05 Rescind Guideline: Race & Ethnicity/pending, 08/13/01

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Effective September 18, 2001, the attached race and ethnicity code documentation guideline (DSQC Memo #2001-02) has been revised to remove the requirement to document the source of race and ethnicity information. All race codes must be supported by text documentation to include each race and ethnicity specified. This information must be documented in the Remarks or Physical Examination field, with the exception of race code 88 (no further race documented). With 2002 data changes, a race and ethnicity text field will be added to the data set for documenting this information.

Replaced by DSQC #2002-06.

**ICD-O-2 to ICD-O-3 Conversion**

Source: DSQC #2001-06 Guideline: ICD-O-2 to ICD-O-3 Conversion, 08/17/01

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With the transition from ICD-O-2 to ICD-O-3, a conversion program was developed by the SEER Program to be used by software vendors in cancer registries where it was elected to convert historical ICD-O-2 data to ICD-O-3 data. Please consult your software vendor instructions for this histology conversion review.

Although there are a large number of histologies flagged for review, the California Cancer Registry is only requiring hospital and regional registries to review the following:

<b><u>ICD-O-2 Code</u></b>	<b><u>ICD-O-2 Histology</u></b>
8580/3	Thymoma, malignant
8803/3	Small cell sarcoma
9731/3	Plasmacytoma, NOS

Source: DSQC #2001-07 Guideline: SEER Documents, 11/12/01

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Three documents were distributed at the SEER Coders and Abstractors Workshop in May 2001:

- *Clarifications for Abstracting and Coding Hematopoietic Diseases* (see PDF document)
- *ICD-O-3 Errata and Clarifications* (see PDF document)
- **[Coding and Abstracting Guide to the Hematopoietic Diseases](#)**

This item is obsolete and has been replaced with the SEER book, *Abstracting and Coding Guide for the Hematopoietic Diseases* (May 2002) [No. T-007] Pub. No. 02-5146. To order go to the SEER website.

Although *Coding and Abstracting Guide to the Hematopoietic Diseases* is a draft, please use it until a final version is available.

Please refer to these documents for assistance when abstracting these cancer sites. They are to be used for cases diagnosed January 1, 2001 and later.

For your convenience, this memorandum can be filed under Appendix S in the 6th Edition of Volume I.

A fourth document, *Clarification of Coding Rules for Prostate Cancer*, was distributed but is currently under review at the CCR. This will be distributed in the future.

[Note: the CNExT Labels files have been updated to reflect the *ICD-O-3 Errata and Clarifications* document.]

#### Reportable In Situ Terms

Source: DSQC #2002-01: Clarification: Reportable In Situ Terms, 1/28/02

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The following is a revision of the list of reportable terms indicating in situ behavior (Volume I, Section V.3.4.2 In Situ Coding). Please note the addition of the terms AIN III, DIN 3 and LIN to this list for cases diagnosed 1/1/2001 forward. For AIN, DIN, LIN, VAIN and VIN, grade II-III is reportable.

Reportable terms indicating in situ behavior include:

AIN III (anal intraepithelial neoplasia, Grade II-III or III)\*\*

Bowen's Disease

DCIS (ductal carcinoma in situ)

DIN 3 (ductal intraepithelial neoplasia 3)\*\*

Clark's level 1 for melanoma (limited to epithelium)

Confined to epithelium

Hutchinson's melanotic freckle

Intracystic, non-infiltrating

Intraductal

Intraepidermal  
Intraepithelial  
Intrasquamous  
Involvement up to but not including the basement membrane  
LCIS (lobular carcinoma in situ)  
Lentigo maligna  
LIN (laryngeal intraepithelial neoplasia)\* \*  
Lobular neoplasia, Grade III  
No stromal invasion  
Non-infiltrating  
Non-invasive  
Precancerous melanosis  
Preinvasive  
Queyrat's erythroplasia  
Stage 0  
VAIN III (vaginal intraepithelial neoplasia, Grade II-III or III)\*  
VIN III (vulvar intraepithelial neoplasia, Grade II-III or III)\*

\* Effective with cases diagnosed 1/1/1992 and later

\*\* Effective with cases diagnosed 1/1/2001 and later

All other terms have been reportable since the region's reference date.

As a reminder, carcinoma in situ (including squamous cell and adenocarcinoma) of the cervix and Cervical Intraepithelial Neoplasia, CIN III, are not reportable effective with cases diagnosed January 1, 1996 and later. Prostatic Intraepithelial Neoplasia (PIN III), morphology code 8148/2 is also not reportable to the CCR.

#### **Surgical Margin Clarifications for Melanoma: Surgery Codes 40 and 50**

Source: DSQC #2002-02: Clarification: Melanoma Surgery Codes, 1/28/02

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Clarification of surgery codes 40 and 50 for surgical margins of melanoma has recently been provided by the Commission on Cancer. Please make the following changes as noted:

Code	Wide excision or re-excision of lesion or minor
40	(local) amputation, NOS. Margins of excision are 1 cm or less. Margins may be microscopically involved. Local amputation is the surgical resection of digits, ear, eyelid, lip or nose.

Code 50 Radical excision of a lesion, 1 cm or more, NOS  
 Margins of excision are greater than 1 cm and grossly tumor free. The margins may be microscopically involved.

DSQC #2002-03 GUIDELINE: SEER Prostate Guidelines  
 EFFECTIVE: Cases Diagnosed on or after 1/1/2001

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The SEER Prostate Guidelines (see PDF document) are effective with cases diagnosed 1/1/01 and forward. Upon review of these guidelines, the CCR feels there are no major changes to the manner in which we have been coding extension for prostate cases. However, the CCR asks that you review all prostate cases diagnosed 1/1/01 forward for consistency in following these guidelines.

- Note on Page 4 - with SEER's permission, a CCR note has been added to clarify when to use PSA coding guidelines.
- Regarding date of diagnosis, please follow the rules in Volume I, III.3.3.
- Regarding Example 4 on page 2, April Fritz provides this clarification, "For Example 4 on page 2, the pathologic code should be 20. We recognize that the first sentence under the PATHOLOGIC EOD section could be phrased more clearly (and it will be in the next iteration). The intent of the statement is to allow histologic information from clinical staging (i.e. needle biopsy or TURP tissue) to supplement information from the prostatectomy. The statement is a variation of Note 3, page 138 of the SEER EOD manual, 3rd edition. The guidelines are intended to supplement the notes in the EOD book, not contradict them."

As a reminder, clinical information that is disproven by the pathology of the prostatectomy specimen should NOT be used. April adds,

"In Example 3, the clinically identified hard nodule turned out to be an adenoma in the right apex. The remainder of the prostatectomy specimen reported only tumor involving the left lobe and was silent on anything else in the prostate, including the left apex. Had there been a bilateral positive biopsy of the apex or a needle biopsy of the left apex, we agree that the appropriate code should be 34. But without it, the best pathologic extension code to use is 20, involvement of one lobe."

DSQC #2002-04 Guideline Revision: EOD Lymph Node Summary Field: 0 vs 9 Guideline, 6/27/02

EFFECTIVE: Cases Diagnosed 1/1/2002 Forward

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Attached please find the revised version (see PDF document) of the EOD Lymph Node Summary Field, 0 vs. 9 Guideline (original statewide distribution date of July 10, 1999). This version replaces the original document. The changes to the document are italicized for your convenience.

Along with providing more clarification, this revision contains:

- SEER Guidelines for lymph node involvement specific to prostate primaries
- Changes - Use code 0 for lymph nodes not mentioned at time of surgery or if radiologic studies are performed and lymph nodes are not mentioned
- Deletion - Use code 9 when there is lymphadenopathy mentioned on radiology studies and no clear documentation which indicates involvement by cancer

#### **Revision of Extension Fields for Breast Cancer**

Source: DSQC #2002-05: Guideline: Revision of Extension Fields for Breast Cancer, 3/12/2002

EFFECTIVE: June 12, 2002

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The attached SEER document, Appendix 1, Revised Breast Cancer EOD Codes (Effective for cases diagnosed January 1, 1998 through December 31, 2002) is provided to supplement CNEXT Version 1.2.3.

**Due to the delay in implementing Collaborative Stage until 2004, these codes will be effective through December 31, 2003 diagnosis year.** This effects extension code fields 10–30 and is meant to reduce the number of cases that are unstageable in the TNM conversion algorithm by capturing pathological information regarding both the in situ and invasive components of the tumor.

- The Regions have been instructed by the CCR to recode cases already submitted by the facilities.
- The online EOD manual has been updated for easy reference. This Appendix expands codes 10-30 and replaces all breast extension codes in the SEER EOD manual.
- The effective dates on Appendix 1 have been modified to read January 1, 1998 through December 31, 2003.

Reminder: Pathology text information must support SEER EOD codes.

#### **Appendix 1**



To: All SEER participants  
 From: April Fritz and Lynn Ries

**Seer Memo on Revision of Extension Fields for Breast Cancer**

The SEER Program will expand the choices of EOD Extension codes for breast cancer to document whether the tumor size recorded is other than for purely invasive cancers.

**Purpose:** To reduce the number of cases that are unstageable in the TNM conversion algorithm.

**Background:** In the 1999 breast cancer data, it became apparent that more and more path reports were only recording the size of the entire lesion and not the invasive component (resulting in 999 codes for breast tumor size). This has led to many breast cancer cases being staged as unknown instead of stage I or II. The graph (Appendix 2) shows that the rate of unknown breast cancer has nearly doubled between 1998 and 1999 for women 50-64 and stage I has dropped dramatically. This shift is highly likely to be due to the tumor size rule rather than an actual shift in stage.

**Cases affected:** All breast cancer cases with Tumor Size code 999 and Extension code 10, 20 or 30.

**Diagnosis date:** *Current SEER registries:* diagnosed between January 1, 1998 and December 31, 2003

*Expansion SEER Registries:* diagnosed between January 1, 2000 and December 31, 2003.

**Procedure:** Select all breast cancer cases (non-lymphomas) with '10,' '20,' or '30' in the EOD extension and '999' for tumor size diagnosed after January 1, 1998. For each case, review the case and code size and EOD extension according to the attached documentation (Appendix 1). Changes should be recorded in the file that is submitted to NCI-SEER.

**Completion date:** Review of cases diagnosed January 1, 1998 through December 31, 2000 must be completed by and included with the Feb 1, 2003 submission. If possible, the cases diagnosed in 2001 should also be reviewed by February 1, 2003, but if this is a problem for 2001 cases, they may be submitted in the August 2003 submission.

**SEER Edits:** To accommodate the new codes, SEER\*Edits will be revised and the changes will be distributed to participating regions as soon as possible.

**Note 1:** Several registries have asked whether they should also review cases with tumor size codes 009 and 019. The answer is that NCI-SEER is not requiring review of those cases. If an individual registry chooses to review them, they can. The

purpose of this review is to derive a tumor size that allows as many cases as possible to be converted to a TNM stage group. Codes 009 and 019 already indicate that the tumor, whether purely invasive or mixed invasive and in situ, is less than 2 cm, and therefore a TNM Tumor category of T1 can be inferred. Summary staging is not affected.

**Note 2:** A number of people asked about requiring software vendors to make changes in hospital registry software. The consensus is that, assuming that SEER changes over to the Collaborative Staging System with cases diagnosed January 1, 2003 and after, the ability to collect tumor size information will be captured in a different way. It is not feasible to require hospital software vendors to make the changes for the remainder of 2002 cases and then implementation

(Replaces DSQC #2001-02 & 2001-05)

EFFECTIVE: July 23, 2002

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Race and ethnicity are two very important data items to epidemiologists who investigate cancer. The National Cancer Institute has recognized the need to better explain the cancer burden in racial/ethnic minorities and is concerned with research on the full diversity of the U.S. population. The CCR recognizes the importance of these data items and relies on quality data to assist researchers in identifying and reducing disparities due to race and ethnicity.

1. Race code documentation must be supported by text documentation for those cases where there is conflicting information. Outlined below are examples of when text documentation would be required.

**NOTE: These examples are not intended to demonstrate all possible scenarios.**

**Scenarios Demonstrating Conflicting Race Information:**

- |  |   |
|--|---|
| A. Name: June<br>Race: Hashimoto<br>Birthplace: White<br>Marital Status: Unknown<br>Single | E. Name: Maria<br>Race: Tran<br>Birthplace: White<br>Marital Status: Spain<br>Separated             |
| B. Name: Bob<br>Race: Nguyen<br>Birthplace: White<br>Mexico                                | F. Name: Carlos<br>Race: Johnson<br>Ethnicity: Black<br>Marital Status: Hispanic<br>California      |
| C. Name: Robert<br>Race: Jackson<br>Birthplace: Mexican<br>California                      | G. Name: Arlene<br>Race: Thompson<br>Birthplace: Filipino<br>Marital Status: California<br>Divorced |
| D. Name: Moon<br>Race: Smith   |   |

Birthplace: Japanese  
 Marital Status: California  
 Status: Married

2. A text statement indicating patient's race, i.e., "Pt is Japanese", is required for conflicting types of cases (see #1). This information must be entered in either the physical exam or remarks text fields.
3. Cases with conflicting information that lack supporting text documentation will be returned as queries and counted as discrepancies.
4. While race code documentation is only required when there is conflicting information, CCR recognizes the importance of race code documentation and strongly recommends that registrars continue to document race in the physical exam or remarks fields. Remember to search beyond the facesheet for the most definitive race and/or ethnicity information.
5. In version 1.2.3 of CNExT, the Remarks screen is now accessible near the demographic information in addition to where it was originally located for registrar's convenience in documenting race information.

DSQC #2002-07 GUIDELINE: SEER Coders & Abstractors Workshop Documents (May 2002), 8/1/02

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The three attached documents were distributed at the SEER Abstractors & Coders Workshop in May 2002.

1. *Changes to SEER Data Set* (effective for cases diagnosed **1/1/03** & forward) (see PDF document)
2. *FDA Oncology Agents Not Listed in SEER Book 8* (effective for cases diagnosed **1/1/02** and forward) (see PDF document)
3. *Determining the Number of Primaries* (effective for cases diagnosed **1/1/02** and forward)

Please refer to these documents for assistance when abstracting. For your convenience, this memorandum can be filed under Appendix S in the 6<sup>th</sup> edition of Volume One.

The following documents were distributed at the workshop in May, however, they are currently being updated and/or under review by CCR. These documents will be distributed at a later date:

1. *SEER Summary Staging Manual Errata* -- An updated list is currently being developed and will be available in about 1 month. CCR will wait for the updated version for distribution.
2. *Coding Complex Morphologic Diagnoses* -- SEER is amending this information. CCR will distribute the revised version once it is available.
3. *Field & Code Changes* - DSQC staff will be meeting and discussing whether we need to retain any of these fields.

4. *NAACCR Standards* -- The table is being revised. CCR will wait for the revised document for distribution.

Trying to decide whether lesions are reportable as single or multiple primaries can be confusing. First, let's review the definition of separate sites.

1. For certain sites, a difference in the subsite indicates a separate primary. These sites are colon (C18), anus and anal canal (C21), bone (C40-C41), melanoma of skin (C44), nerves (C47), and connective tissue (C49).

For practical purposes, the only two sites where you are likely to encounter multiple primaries are colon and melanoma of the skin.

For example, a melanoma of the skin of the arm (C44.6) and a melanoma of the skin of the leg (C44.7) are reported as two primaries.

2. For other sites, a difference in the main category (the two numbers after the C) of the site code is reported as a separate primary.

For example, stomach (C16) and cecum (C18.0) are separate primaries and two abstracts would be prepared.

Prepare a single abstract when there is a difference in subsite.

For example, two separate squamous carcinomas, one of the true vocal cord (C32.0) and one of the posterior surface of the epiglottis (C32.1) are reported as a single primary because there is a difference only in subsite.

3. Table 24 in ICD-O-3 and pages 9-10 in the SEER Program Code Manual list site code groupings that are considered one primary site for reporting purposes. The groups that you are most likely to use are head and neck, genitalia and urinary system.

Examples:

A lesion on the soft palate (C05.1) and a lesion on the buccal mucosa (C06.0) would be reported as a single primary.

Squamous carcinoma of the vulva (C51) and squamous carcinoma of the vagina (C52) would be reported as a single primary.

Transitional cell carcinoma of the renal pelvis (C65) and a separate transitional cell carcinoma of the ureter (C66) would be reported as a single primary.

4. When there are multiple lesions, a difference in the first three digits of the histology code usually means different histologies.

This means a difference in any of the first three digits of the histology code.

An angiosarcoma (9120) and an angiomyxosarcoma (8894) are different at the first digit. These are separate histologies.

A mucinous adenocarcinoma (8480) and a ductal carcinoma (8500) are different at the second digit. These are separate histologies.

An alveolar adenocarcinoma (8251) and a papillary adenocarcinoma (8260) are different at the third digit. These are separate histologies.

Oat cell carcinoma (8042) and small cell carcinoma (8041), because they are only different at the fourth digit, are the same histology for the purpose of determining the number of primaries to report.

**Prepare a Single Abstract for:**

1. A single lesion with one histologic type.
2. A single lesion with multiple histologic types. Code the histology in priority order: 1) a combination code if one exists; 2) a more specific code; 3) majority of the tumor; 4) higher ICD-O-3 code.

**Examples:**

A breast tumor with a mucinous component (8480/3) and a ductal component (8500/3) is reported as a single primary. (Code the combination histology, 8523/3.)

A colon cancer biopsy reported as adenocarcinoma, NOS (8140/3) and described as mucinous adenocarcinoma (8480/3) when resected. (Code the more specific diagnosis, 8480/3.)

A stomach carcinoma, predominantly signet ring type. (Code the majority term, 8490/3.)

A bladder tumor with transitional cell CA (8120/3) and squamous cell carcinoma (8070/3) is a single primary. (No combination code; code to higher ICD-O-3 code, 8120/3.)

3. Multiple lesions of the same histologic type, if diagnosed in the same site within two months.

For example, oat cell carcinoma (8042/3) of the LUL of the lung (C34.1) and small cell carcinoma (8041/3) of the LLL of the lung (C34.3) are a single primary.

4. An adenocarcinoma NOS and a more specific type of adenocarcinoma in the same site within two months are a single primary. This occurs most often in the colon.

For example, two separate tumors in the ascending colon, an adenocarcinoma (8140/3) and a mucin-producing adenocarcinoma (8481/3), are a single primary.

5. Multiple tumors of different cell types that commonly appear together in the same primary site diagnosed within two months are reported as a single primary.

**Examples:**

Ductal carcinoma in the UOQ and a lobular carcinoma in the LIQ are reported as a single primary (C50.9 -- 8522/3).

Separate nodules of follicular carcinoma and papillary carcinoma in the thyroid. (Use the combination code 8340/3)

Thanks to the Los Angeles SEER Registry for developing this overview.

#### **Coding Complex Morphologic Diagnoses**

Source: DSQC #2002-08 Guideline: Coding Complex Morphologic Diagnoses (revised 8/02)

EFFECTIVE: For cases diagnosed January 1, 2001 & forward

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Per DSQC Memorandum 2006-01:

Effective immediately, DSQC Memorandum 2002-08 "Coding Complex Morphologic Diagnoses," is rescinded and the rules contained in the document **should no longer be applied**.

Source: DSQC #2003-01 Revised Clarification: Histology Code for Mucinous Adenocarcinoma in a Villoglandular Polyp

EFFECTIVE: March 31, 2003

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The histology code for mucinous adenocarcinoma in a villoglandular polyp is code 8480/3.

NOTE: CCR Inquiry System #226 will be revised to reflect the correct code: 8480/3.

NOTE: CCR Inquiry System #498 is a similar question. That answer is correctly stated and remains unchanged.

#### **Surgery of Primary Site - Breast**

DSQC #2003-02 CLARIFICATION: Surgery of Primary Site - Breast

EFFECTIVE: September 1, 2003

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The CCR has received a revised answer from the Commission on Cancer and SEER regarding cases treated with bilateral mastectomies with separate primaries.

If a patient is diagnosed with two separate right and left breast primaries and treated with right and left mastectomy(s), surgery code is 41 or 51 for each primary; two separate abstracts are reported, see examples below.

Codes 42/52 are used to capture prophylactic mastectomy of the opposite non-cancerous breast.

This is documented in Volume One, Seventh Edition, Appendix Q, SEER Program Code Manual, 3rd Edition, Revision 1, Appendix F, pages 23 and 24, and the FORDS manual, pages 269 and 270.

NOTE: CCR Inquiry System #447 will be revised to reflect the correct code: 41/51

NOTE: SINO 20012002 reflects the correct code: 41/51

Example 1

Rt. & Lt. Breast CA (2 separate primaries)  
Right Simple Mastectomy: Surgery Code  
Left Simple Mastectomy: Surgery Code  
Rt. Surgery Code = 41  
Lt. Surgery Code = 41

Example 2

Rt. & Lt. Breast CA (2 separate primaries)  
Right Modified Mastectomy  
Left Modified Mastectomy  
Rt. Surgery Code: 51  
Lt. Surgery Code: 51

Example 3

Left Breast CA  
Left Simple Mastectomy  
Right Simple Mastectomy (Prophylactic)  
Surgery Code = 42

Example 4

Right Breast CA  
Right Modified Mastectomy  
Left Modified Mastectomy (Prophylactic)  
Surgery Code = 52

**Multiple Primaries - Breast**

DSQC #2003-03 CLARIFICATION: Multiple Primaries - Breast

EFFECTIVE: December 8, 2003



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The CCR has received the following clarification from SEER regarding the use of the combination code for breast primaries.

When abstracting and coding breast cancer, determine if there is one tumor with complex morphologies or separate tumors with different histologies. Use the following guideline to determine number of abstracts:

- One tumor with complex morphologies; prepare one abstract
- Separate tumors with different histologies; prepare one abstract for each tumor

The use of combination codes for breast primaries with separate tumors in different locations are limited to the following scenarios and coded as one primary:

- Ductal and lobular ca (8522)
- Paget's Disease and intraductal ca (8543)
- Paget's Disease and infiltrating ductal ca (8541)

Other histologic type differences that occur as separate tumors in different parts of the same breast are coded as multiple primaries. ICD-O-3 histology code 8523 is NOT to be used to combine histologies from separate primaries; it is used for mixed histologies in a single primary.

CCR Inquiry System ID #540, 604 and 640 will be revised to reflect this clarification.

After the implementation date of this memo (30 days after effective date), breast cases incorrectly submitted as one primary will not be processed by the regions. These cases will be returned and need to be resubmitted as two primaries.

DSQC #2003-04 CLARIFICATION: ACoS Data Items

EFFECTIVE: Cases Diagnosed January 1, 2003 Forward

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We have received numerous questions regarding surgery and treatment code fields, thus we have compiled a list of clarifications from the American College of Surgeons' Commission on Cancer (CoC) FORDS Manual as well as the CoC Inquiry and Response System. They are as follows:

**Diagnostic and Staging Procedure Codes**

This field describes incisional, needle or aspiration biopsies of the primary site or regional/distant tissue only. It *does not* describe incisional, needle or aspiration biopsies of regional lymph nodes; these are described in the "Scope of Regional Lymph Node Surgery".



Incisional biopsies and fine needle aspirations of the primary site performed for purposes of staging or diagnosing a cancer are coded as Surgical Diagnostic and Staging Procedures **02** when the procedure does not involve surgical treatment.

*References:* FORDS pages 16 and 109-110, ACoS I&R # 8996

**Surgery Code: Bladder**

Use code **27** for a transurethral resection bladder (TURB)

*References:* ACoS I&R #9486

**Surgical Procedure/Other Site:**

For the field Surgical Procedure/Other Site, apply code **1** - Nonprimary surgical procedure performed, if surgical treatment was performed for the following primary sites and morphologies:

- Unknown Primaries
- Ill-Defined Primaries
- Hematopoietic/Endoreticulothelial/Immunoproliferative or Myeloproliferative disease morphologies,

*References:* FORDS Manual, page 21, ACoS I&R #9404

DSQC #2003-05

GUIDELINES: SEER Workshop Documents (May 2003)

EFFECTIVE: See below

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The attached documents were distributed at the SEER Abstractors & Coders Workshop in May 2003.

1. *The Brain Book, Abstracting & Coding Guidelines for Primary Central Nervous System Tumors; Draft #2( 9/4/2003).* Effective for cases diagnosed 1/1/04 and forward.
2. *ICD-0-3 Errata and Clarifications Set #2*
3. Replacement page for *SEER Program Manual*, page 133 (Reason No Cancer Directed Surgery)
4. Replacement pages for *SEER Program Manual*, Appendix F (colon, breast & prostate)

These documents will also be posted to the CCR website in pdf format.

Registrars may go to the CCR website to download "The Brain Book", draft #2. If unable to access the website, please request that your region provide you with a hardcopy. April Fritz has informed us that a finalized version of "The Brain Book" will be available at some time in the future. In the meantime, the CCR wants the draft #2 version available to registrars.

DSQC #2005-01

CLARIFICATION

EFFECTIVE: Cases Diagnosed January 1, 2004 Forward

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The attached document includes clarifications in coding and abstracting instructions resulting from the 2004 Data Changes Training. Although this clarification is effective with cases diagnosed January 1, 2004 forward, it is not necessary to go back and recode cases that have already been abstracted or transmitted.

Please refer to this document for assistance when abstracting.

**Benign Brain and CNS Tumors (BBT)**

1. **Question:** What diagnosis year is BBT reporting effective?

**Response:** Statewide reporting of BBT commenced with diagnosis year 1/01/01.

For cases diagnosed 1/01/04 forward, abstract using 2004 Data Changes rules (Vol. I, Sec. II.1.9.1 - II.1.9.7)

2. **Question:** How are BBT staged?

**Response:** For diagnosis years 2001-2003 the CCR does not require benign brain tumors to be staged; the default EOD codes are 999 99 9 99/99. If you have been assigning codes/stages to them in the past, we recommend you continue this practice.

For cases diagnosed 1/01/04 forward, use the Collaborative Staging scheme for the appropriate site. There is a schema for Brain and Cerebral Meninges, Other parts of the CNS (includes the spinal meninges, and cranial nerves), and Thymus, Adrenal Gland and Other Endocrine Glands (includes pituitary and pineal glands and craniopharyngeal duct).

3. **Question:** What sequence number is assigned to a second BBT?

**Response:** The first BBT is assigned sequence #60. If another BBT primary tumor is subsequently diagnosed, the first BBT tumor sequence is changed to #61 and the second BBT is assigned sequence #62.

**Example:** In 2004, a person was diagnosed with a BBT (sequence #60). In 2005, a second reportable BBT was diagnosed. The 2004 case changes to sequence #61 and the tumor diagnosed in 2005 is assigned sequence #62.

4. **Question:** If a BBT case is diagnosed prior to 01/01/04 and recurs in 2004, is the recurrence reportable?

**Response:** If the case was diagnosed prior to 1/01/01, it would not be reported. If the case was diagnosed 1/01/01 through 12/31/03, it would have been previously reported to the CCR using previous reporting rules.

5. **Question:** How many primaries do you abstract in the scenario below?

A patient has a known BBT diagnosed after 1/01/04 and it is not treated. After time, the patient is diagnosed with a malignant brain tumor in the same site.

**Response:** Report as two primaries one benign (sequence number 60) and one malignant (sequence number 00). Once a tumor transforms from benign to malignant, another abstract for the malignant tumor is prepared.

**Reference:** Volume I, Section II.1.9.5

6. **Question:** If there is one lesion in the midline of the brain, is this coded as one lesion?

**Response:** Yes, code as one lesion and use the code where the midline structure is listed.

**Example:** A midline lesion of the third ventricle would be coded to C71.5 third ventricle

7. **Question:** If there is one lesion in the midline of the brain and one lesion elsewhere in the brain with the same histology diagnosed at the same time, is this one primary or two?

**Response:** Compare the subsite code for the midline tumor to the subsite code for the other tumor. If they are different at the subsite level, abstract as two primaries. If the location of the midline tumor is in the same subsite, it would be considered one lesion.

**Example:** There is one tumor in the midline of the third ventricle (C71.5) and a separate tumor with the same histology within the third ventricle (C71.5). Abstract as one primary.

**Example:** There is one tumor in the midline of the temporal lobe (C71.2) and a separate midline tumor located in the right parietal lobe (C71.3). Abstract as two primaries.

8. **Question:** How do you code laterality for a lesion in the midline of the brain?

**Response:** Midline tumors of the CNS are sometimes coded 9 in laterality. If the lesion is midline in a single brain structure, then code 0. For example, laterality is coded 0 (not a paired organ) for C71.6, cerebellum, NOS.

9. **Question:** For coding a single primary brain tumor with 2 histologies, (both histologies are listed in the same histologic group, Volume I, page 31), which histology do you code?

**Response:** The table on page 31 of Volume I does not apply to single tumors. It only applies when there are multiple tumors. For single tumors with different histologies, follow rule 4 in Volume I, page 82, which states to use the numerically higher histology code.

10. **Question:** Are non-malignant blood vessel tumors occurring in the CNS sites reportable?

**Response:** Yes, the ICD-O-3 Primary Brain and CNS Site/Histology Listing (Appendix V in Volume I) includes blood vessel tumors under several categories including meninges C70.0-C70.9, brain C71.0-C71.4 and C71.7-C71.9, (excluding ventricle), spinal cord C72.0, cauda equina C72.1, cranial nerves C72.2-C72.5, cerebellum C71.6 and other nervous system C72.8-C72.9.

These tumors include:

- 9120/0 Hemangioma, NOS
- 9121/0 Cavernous hemangioma
- 9150/0 Hemangiopericytoma, benign
- 9150/1 Hemangiopericytoma, NOS
- 9161/1 Hemaniblastoma

**11. Question:** Should blood vessel tumors occurring in CNS sites be coded to blood vessels or CNS?

**Response:** They should be coded to the CNS site in which they occur.

**Example:** Patient is diagnosed with a hemangioblastoma of the right temporal lobe of the brain. Site code: C71.2 (temporal lobe, brain), histology code: 9161/1, Laterality: Right only

**12. Question:** Is laterality coded for tumors of the meninges?

**Response:** Code laterality for cerebral meninges (C70.0) only. Spinal meninges (C70.1) is not listed as a lateral site, thus laterality for spinal meninges is coded to 0.

**Reference:** Volume I, Section II.1.9.2

**13. Question:** Is it possible for a benign schwannoma to arise on the spinal cord or do they always arise from nerve roots coming off the cord?

**Response:** Anatomically they must be derived from Schwann cells which are not a part of the CNS, so they must all come from peripheral nerves, therefore, they all come from nerve roots. Thus, benign schwannomas of the spinal cord/peripheral nerves are not reportable.

**14. Question:** If the surgeon states "resection of intradural extramedullary schwannoma" does this mean that the tumor is outside the cord but within the dura?

**Response:** Yes, but it also means it is on a peripheral nerve root and therefore not reportable.

DSQC #2005-01

CLARIFICATION

EFFECTIVE: Cases Diagnosed January 1, 2004 Forward

## COLLABORATIVE STAGING

## GENERAL INSTRUCTIONS

1. **Question:** The General Instructions on page 25 of the Collaborative Staging Manual states, "Prostate needle biopsy shows 0.6 mm carcinoma, Code as 001." Page 27 states "For an incisional needle biopsy, code tumor size as 999. Do not code the tumor size from a needle biopsy unless no residual tumor is found on further resection." This is a contradiction. Which do we follow?

**Response** from the CoC/CS Steering Committee:

The General Instructions on page 25, which currently reads "Prostate needle biopsy shows 0.6 mm carcinoma Code as 001," will be edited and corrected to state "Prostate TURP shows 0.6 mm tumor size." The instruction on page 27 is correct.

2. **Question:** If different metastatic sites are equally distant, how is the CS Distant Mets coded? Is this CS Mets Eval?

**Response:** For the CS Distant Mets field, it doesn't matter how "distant" a metastatic site is for this field. The codes for CS Distant Mets are divided into the following categories:

Code 10 - Distant lymph nodes (site specific)

Code 40 - Distant metastasis (except code 10), distant metastasis, NOS, or carcinomatosis

Code 50 – A combination of codes 10 and 40

Code 99 – Unknown, cannot be assessed, not stated in patient record

Assign the highest applicable code for CS Distant Mets, whether the determination was clinical or pathological and whether or not the patient had preoperative systemic therapy.

For assessing CS Mets Eval, both the findings and distance from the primary site are factors in determining this field. If all workup is deemed negative, code the diagnostic method used to evaluate the site furthest from the primary site. If some of the workup is negative and some positive, code the diagnostic method used for the furthest positive finding. If all the workup is positive, code the diagnostic method used to evaluate the furthest metastatic site from the primary.

**Reminder:** Select the CS Mets Eval code that documents the report or procedure from which the information was obtained about metastatic involvement farthest from the primary site. This may not be the numerically highest eval code.

3. **Question:** Are there any CS fields that are not coded?

**Response:** The CCR requires that all fields except the CS Evaluation fields be coded. CoC approved facilities are required to complete all CS data items, including the CS Evaluation fields.

4. **Question:** How are the SSF coded when the only information is the MD TNM?

**Response:** If the medical record does not contain information that can be coded in the SSF fields, use the appropriate code for "unknown" or "not applicable."

**BREAST**

5. **Question:** What is the definition of H&E stain?

**Response:** H&E stands for Hematoxylin and Eosin.

6. **Question:** In the breast scheme, when would you use CS Lymph Node code 05?

**Response:** Use code 05 when the regional lymph nodes are negative, but isolated tumor cells (ITC's) are detected on routine H&E stains. Reminder: Lymph nodes with ITC's only are not considered positive lymph nodes. See note 5 in this scheme.

7. **Question:** How are SSF 4 and 5 coded for in situ breast cancer cases? When would you use code 888?

**Response:** For Breast Site Specific Factor 4, use codes 000-009 only to report results of IHC on otherwise negative lymph nodes on routine H&E stain, i.e., only when CS Lymph Nodes is coded 00. The same applies to Site Specific Factor 5, relative to codes 000-002.

Code 888 is for cases not coded to 00 for CS Lymph Nodes. For instance, if you have a CS Lymph Node code 10, SSF 4 and 5 would be coded 888.

**References:** CS Manual, page 464

CoC I & R, # 12726

**Note 1:** Please note the change on page 464 of the CS Manual, under Breast - Site Specific Factor 4, for code 888, CS Lymph Nodes code 05 has been deleted (revision 8/12/04).

**Note 2:** Under the general CS Lymph Nodes rule, item 2 states to code CS Lymph Nodes to 00, when the CS Extension is coded as in situ, even if no lymph nodes were removed, since "in situ" by definition means noninvasive.

**Reference:** CS Manual, page 34, item 2

8. **Question:** How is Breast SSF 4 coded if the lymph node pathology is negative and no IHC was done?

**Response:** Use Breast Site Specific Factor 4 code 000, regional lymph nodes negative on H&E, no IHC studies done. The same rule applies for SSF 5.

**PROSTATE**

9. **Question:** Which EOD prostate guidelines can we apply for Collaborative Staging?

**Response:** Do not apply any of the EOD prostate guidelines. Prostate guidelines for Collaborative Staging are currently being developed by the CS Steering Committee.

#### LYMPHOMA

**10. Question:** In the lymphoma scheme, what is the IPI Score?

**Response:** IPI Score stands for International Prognostic Index. An international cooperative study developed a prognostic index for patients with follicular lymphoma. Using 5 factors, the researchers were able to predict patients with a less than 50% 5-year survival who would be suitable candidates for more intensive therapy. The 5 risk factors include: Age 60 or over, Ann Arbor stage III-IV, hemoglobin level <120 g/L, elevated LDH and >4 nodal sites. This paper was published in the September 1, 2004 issue of Blood.

#### PAROTID GLAND

**11. Question:** For Site Specific Factor 3, what lymph nodes are considered Level I-III for the parotid gland?

**Response:** Definitions of the levels and lymph node chains in each level for Head and Neck sites are listed on page 37 of the CS Manual.

**Reference:** CS Manual, page 37, and pages 192-193

DSQC #2005-02

CLARIFICATION

EFFECTIVE: Cases Diagnosed January 1, 2005 Forward

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Fine needle aspirations (removal of cells or tissue) of regional lymph nodes are coded in the Scope of Regional Lymph Node Surgery field. Additionally, FNA biopsies of regional nodes are also included in the Number of Positive and Examined Regional Lymph Nodes fields. For Number of Positive Regional Lymph Nodes, if the total number of positive aspirated, biopsied, sampled, or dissected lymph nodes cannot be determined on the basis of cytology or histology, code the combination of lymph nodes to 97. For the Number of Examined Lymph Nodes, if it cannot be determined how many lymph nodes were aspirated, biopsied, sampled, or dissected, code the number of nodes to 98. If an FNA of regional nodes is the only procedure performed on lymph nodes, code Regional Lymph Nodes Positive/Examined to 95/95. Whether or not the lymph node aspiration resulted in cytology or histology does not affect the codes.

**Example #1:** Breast cancer patient had a biopsy of a sentinel axillary lymph node that was negative. An FNA of an axillary lymph node was performed on the same day and was positive. A month later, an axillary lymph node dissection was performed and the pathology report stated that 11/19 lymph nodes were positive.

**Surgical Procedure #1:** Code Scope of Regional Lymph Node Surgery to Code 2 - Sentinel lymph node biopsy.



**Surgical Procedure #2:** Code Scope of Regional Lymph Node Surgery to Code 7 – Sentinel lymph node biopsy & code 3, 4, or 5 at different times.

**Rationale:** Codes 0-7 are hierarchical. If only one procedure can be recorded, code the procedure that is numerically higher.

**Code CS Regional Lymph Nodes Positive/Examined: 12/21**

**Rationale:** Positive: 0 sentinel node, 1 FNA of a node, 11 dissected nodes; Examined: 1 sentinel node, 1 FNA of a node, 19 dissected nodes.

**Example # 2:** Breast cancer patient had an FNA biopsy of an axillary lymph node that was positive for carcinoma. Subsequently, an axillary lymph node dissection was done elsewhere. Findings stated to be negative, but unknown how many lymph nodes were examined.

**Surgical Procedure #1:** Code Scope of Regional Lymph Node Surgery to Code 1 – Biopsy or aspiration of regional lymph nodes, NOS

**Surgical Procedure #2:** Code Scope of Regional Lymph Node Surgery to Code 3 – Number of regional lymph nodes removed unknown or not stated; regional lymph node removed, NOS

**Code CS regional Lymph Nodes Positive/Examined: 01/97**

**Rationale:** A single lymph node was positive on FNA, thus Regional Lymph Nodes Positive is coded to 01; regional lymph node removal was documented as a dissection, number of nodes is unknown/not stated, thus Regional Lymph Nodes Examined is coded to 97.

DSQC #2005-03

CLARIFICATION

EFFECTIVE: Immediately

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It has come to the attention of the CCR that some facilities are submitting cases to the regional registries with social security numbers coded to 000-00-0001. Apparently the admitting departments at these facilities use this number when the patient's social security number is unknown. This is not a valid social security number according to the Social Security Administration. Do not submit cases to the regional registries using this invalid social security number.

Please follow the guideline in Volume I, section III.2.3 that states to code an unknown social security number to 999-99-9999.

**Melanoma Surgery Code Guidelines**

DSQC #2005-04

GUIDELINE



EFFECTIVE: Cases diagnosed January 1, 2005 Forward

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Below please find the revised Melanoma Surgery Code Guidelines. Although this guideline is effective with cases diagnosed January 1, 2005 forward, registrars are not required to go back and apply these guidelines to 2005 cases already submitted to the regional registry.

In accordance with the CCR General Visual Editing Guidelines, discrepancies resulting from new information/guidelines will not be counted for one month (30 days) after statewide distribution. *DSQC Memo 2005-04 has a distribution date of August 5, 2005, thus regional registries will not count discrepancies using this guideline on cases with a Date Completed earlier than September 5, 2005.*

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#### GENERAL GUIDELINES

1. Code a shave, punch bx or incisional biopsy or biopsy NOS as surgery, if it removes all of the melanoma (exc bx=27). Use the surgery date from this procedure.
2. Code a shave or punch biopsy, incisional biopsy or biopsy NOS as surgical, diagnostic and staging procedure (02), if it does not remove all of the melanoma. Also, if it is not known if all of the melanoma has been removed, code it as a surgical, diagnostic and staging procedure.
3. If the first procedure is labeled as an excisional bx (27) or an excision NOS (20) code them per the titles **unless surgical margins are > 1cm (then code in the applicable 40 range)**.
4. Code the subsequent procedure based on the surgical margin measurements first. If this places the surgery code in the 30's range, then apply the code that corresponds to the first procedure (31=shave, punch=32, etc).
  - a. If the surgical margins are **equal to or <1cm**, code 30-33 (as applicable).
  - b. If the surgical margins are **>1cm**, code 45-47 (as applicable).
  - c. If the surgical margins are NOS (**not documented or not known**), code 30-33 (as applicable).
  - d. If the subsequent procedure is a Mohs, use the appropriate 34-36 code.

**NOTE 1:** The biopsy NOS, shave, punch or incisional biopsy and the gross excision do not have to be done as a single procedure to code 30-33.

**NOTE 2:** Margins must be taken from the pathology report—following CAP (College of American Pathologists) protocol guidelines.

**NOTE 3:** To use the codes 45-47, the surgical margins must be > 1cm and microscopically negative.

**NOTE 4:** When there are no margins documented in the pathology report, do not guess/estimate the margin measurements from the specimen size.

**NOTE 5:** If there are margins for length, width and depth and they are different, code the smallest margin. The smallest margin dictates the surgery code, no matter where it comes from (width, length or depth).

**NOTE:** *The CoC Technical Staff (ACoS) has reviewed this document for accuracy.*

<b>SURGERY CODE INSTRUCTIONS FOR MELANOMAS</b> (Two procedure scenarios listed with surgery codes)		
<b>1<sup>st</sup> Procedure=Shave/punch/inc/NOS biopsy &amp; Residual Melanoma @ 2<sup>nd</sup> Procedure</b>		
1 <sup>st</sup> Procedure	Shave or punch biopsy, incisional biopsy or biopsy NOS	02
2 <sup>nd</sup> Procedure	<b>Surg margins equal to or &lt;1cm or NOS=</b> residual melanoma	30-33 (Mohs=34-35)
2 <sup>nd</sup> Procedure	<b>Surg margins &gt;1cm=</b> residual melanoma	45-47* (Mohs=36)
<b>1<sup>st</sup> Procedure=Exc bx/Excision NOS &amp; Residual Melanoma @ 2<sup>nd</sup> Procedure</b>		
1 <sup>st</sup> Procedure	Excisional biopsy or Excision NOS	27 or 20
2 <sup>nd</sup> Procedure	<b>Surg margins equal to or &lt;1cm or NOS=</b> residual melanoma	30 (Mohs=34-35)
2 <sup>nd</sup> Procedure	<b>Surg margins &gt;1cm=</b> residual melanoma	45-47* (Mohs=36)

<b>NO RESIDUAL MELANOMA @ 2<sup>nd</sup> Procedure</b>		
1 <sup>st</sup> Procedure	Shave or punch biopsy, incisional biopsy, biopsy NOS, excisional bx (all preceding titles code 27) or excision NOS (20) ( <b>unless surgical margins &gt; 1cm</b> , then code in the 40 range)	27 or 20
2 <sup>nd</sup> Procedure	<b>Surg margins equal to or &lt;1cm or margins NOS=</b> no residual <i>NOTE: If the 1<sup>st</sup> procedure was an excisional bx, code the 2<sup>nd</sup> procedure 30.</i>	30-33 (Mohs=34-35)
2 <sup>nd</sup> Procedure	<b>Surg margins &gt; 1cm=</b> no residual	45-47* (Mohs=36)

**\*NOTE 1:** Margins must be microscopically negative and > 1cm to code in the 40 range.

**NOTE 2:** Surgical margins must be taken from the path report.

<b>THREE SURGERY CODE EXAMPLES FOR MELANOMAS</b> (Three procedure scenarios listed with surgery codes)		
<b>Example 1</b>		
1 <sup>st</sup> Procedure	Punch biopsy: Atypical junctional melanocytic proliferation, present at bx margin.	02
2 <sup>nd</sup> Procedure	Exc Skin: Malig melanoma, focally extending very close to peripheral margin.	32
3 <sup>rd</sup> Procedure	Exc skin: No residual melanoma.	32
<b>Example 2</b>		
1 <sup>st</sup> Procedure	Punch bx, skin: malignant melanoma, present at bx margin.	02
2 <sup>nd</sup> Procedure	Exc, skin: malignant melanoma, focally extending very close to peripheral margin.	32
3 <sup>rd</sup> Procedure	Exc, skin: No residual melanoma.	32
<b>Example 3</b>		
1 <sup>st</sup> Procedure	Shave bx: Atypical junction nevus, no evidence of invasive disease.	02
2 <sup>nd</sup> Procedure	Exc Lesion: Malig melanoma assoc w/compound nevus. Epidermal margin positive.	31
3 <sup>rd</sup> Procedure	Moh's exc: Focal residual melanoma in situ, close to inked epidermal margin. Final surg margins clear.	34
<b>Example 4</b>		
1 <sup>st</sup> Procedure	Shave bx: Melanoma in situ (lentigo maligna).	02
2 <sup>nd</sup> Procedure	Skin punch bx: NED.	02
3 <sup>rd</sup> Procedure	Moh's: Melanoma in situ, surgical margins: NED.	34

**Use of SEER\*Rx and Drugs Changing Categories**

DSQC #2005-05

**CLARIFICATION**



EFFECTIVE: Cases Diagnosed January 1, 2005 Forward

For cases diagnosed 1/1/2005 forward, registrars must use SEER\*Rx, for coding systemic treatment (i.e. chemotherapy, hormone therapy, and immunotherapy). SEER\*Rx is the downloadable, interactive antineoplastic drug database that replaces SEER Self-Instructional Manual Book 8, Antineoplastic Drugs. SEER\*Rx can be downloaded from .

Since Book 8, the categories for a few drugs have changed from immunotherapy to cytostatic chemotherapy. Registrars will need to make appropriate corrections in their databases for any cases diagnosed 1/1/2005 forward in which a drug changed categories. To assist registrars in identifying these drugs, attached is a SEER SINO entry, listing the drugs that changed categories from immunotherapy to cytostatic chemotherapy. There were no drugs that changed categories from chemotherapy to immunotherapy.

For cases diagnosed prior to 1/1/2005, registrars may use SEER\*Rx if they wish. Registrars do not need to change or correct the drugs that switched categories for cases diagnosed prior to 1/1/2005.

In accordance with the Visual Editing Guidelines, discrepancies resulting from this new information will not be counted for one month (30 days) after statewide distribution. The Date Completed on the abstract will be the date the visual editor will use to calculate the 30-day time frame. Discrepancies will not be counted in which drugs shifted categories for cases with a Date Completed prior to December 31, 2005, or for any cases diagnosed prior to January 1, 2005.

ID : 20051111		Status : Final	
 1 of 1 		Mark for Report	
References			
SEER*Rx			
Brief			
Question			
Chemotherapy/Immunotherapy: Which drugs changed categories when SEER*Rx came out?			
Answer			
Please refer to <a href="http://seer.cancer.gov/tools/seerrx/">http://seer.cancer.gov/tools/seerrx/</a>			
SEER*Rx is effective for cases diagnosed 1-1-2005 and forward. It replaces all previous references. It is neither required nor recommended that cases treated prior to 2005 be recoded.			
The following drugs in the 5/17/02 Book 8 update changed from immunotherapy to cytostatic chemotherapy in SEER*Rx:			
alemtuzumab/Campath			
bexarotene/Targretin			
bevacizumab/Avastin			
bortezomib/Velcade			
pegaspargase/Oncaspar			

rituximab/Rituxan

trastuzumab/Herceptin

asparaginase

The following drugs may have been coded as monoclonal antibodies but are radioisotopes in SEER\*Rx:

epratuzumab/LymphoCide

ibrituzumab

tiuxetan/Zevalin

tositumomab/Bexxar

Any other monoclonal antibodies either remained as monoclonal antibodies or it was a local decision to code them as immunotherapy.

There were no drugs that changed from chemotherapy to immunotherapy.

#### **RESCINDMENT - DSQC MEMORANDUM 2002-08 "Coding Complex Morphologic Diagnoses (revised 8/02)**

SOURCE: DSQC #2006-01

CATEGORY: CLARIFICATION

EFFECTIVE: For Cases Diagnosed in 2005 and 2006

Statewide Distribution Date: March 3, 2006

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Effective immediately, DSQC Memorandum 2002-08 "Coding Complex Morphologic Diagnoses," is rescinded and the rules contained in the document should no longer be applied.

SEER has informed the CCR that the document, "Coding Complex Morphologic Diagnoses" distributed by SEER, is no longer to be used in coding complex and difficult morphology combinations. Instead, SEER is directing registrars to use the SEER Multiple Primaries and Histology Rules from the *SEER Program Coding and Staging Manual 2004*, Fourth Edition. The pages from the *SEER Program Coding and Staging Manual 2004*, pertaining to histology coding are attached.

Please note that on page 2 of this attached document, the terms "architecture" and "pattern" may be used to designate the majority of tumor if written in the College of Pathology (CAP) protocol. Documentation in the pathology text is required indicating that the term originated from the CAP protocol (e.g. as per CAP protocol).

Please apply these multiple primaries and histology rules for all cases diagnosed in 2005 and 2006. Registrars are not expected to go back and apply these rules to cases already abstracted and submitted to the regional registry.

**Note:** in accordance with the CCR Visual Editing Standards, discrepancies resulting from this new information will not be counted for one month (30

days) after statewide distribution. The Date Completed on the abstract will be the date the visual editor will use to calculate the 30-day time frame.

**DSQC Memo 2006-01 Attachment**

**Histologic Type ICD-O-3**

The data item Histologic Type describes the microscopic composition of cells and/or tissue for a specific primary. In the rare instance where there is no tissue pathology, code the histology the medical practitioner uses to describe the tumor. The tumor type or histology is a basis for staging and determination of treatment options. It affects the prognosis and course of the disease.

The *International Classification of Diseases for Oncology, Third Edition (ICD-O-3)* is the standard reference for coding the histology for tumors diagnosed in 2001 and later. Do not record the 'M' that precedes the histology code. Refer to *ICD-O-3* for guidance in coding the histology. See sections *Coding Guidelines for Topography and Morphology*, and *Summary of Principal Rules for Using the ICD-O, Third Edition*.

The histology can be coded only after the determination of multiple primaries has been made.

**Synonyms and Equivalent Terms**

**Mixed, combined, and complex** are **usually** used as synonyms when describing histology.

**Definitions**

**Cancer, NOS (8000)** and **carcinoma, NOS (8010)** are not interchangeable.

**Carcinoma, NOS (8010)** and **adenocarcinoma (8140)** are interchangeable (See ICD-O-3).

**Complex (mixed, combined) histology:** The pathologist uses **multiple histologic terms** to describe a tumor. The histologic terms are frequently connected by the word "and" (for example ductal and lobular carcinoma).

**Different histology:** The first three digits of the ICD-O-3 histology code are different.

**Different subtypes:** The NOS cell types often have multiple subtypes; for example, scirrhous adenocarcinoma (8143), adenocarcinoma, intestinal type (8144), and linitis plastica (8141) are subtypes of adenocarcinoma, NOS (8140).

**Majority of Tumor:**

Terms that mean the majority of tumor	Terms that DO NOT mean the majority of tumor
Predominantly	With foci of

With features of	Focus of/focal
Major	Areas of
Type	Elements of
With.....Differentiation*	Component
Pattern (Only if written in College of American Pathologists (CAP) Protocol) **	
Architecture (Only if written in College of American Pathologists (CAP) Protocol) **	

**Note:** Examples of CAP protocols for specific primary sites may be found on the website – [http://www.cap.org/cancerprotocols/protocols\\_intro.html](http://www.cap.org/cancerprotocols/protocols_intro.html)

\* Effective 1/1/1999 diagnosis

\*\* Effective 1/1/2003 diagnosis

**Mixed/combined histology:** Different cell types in one tumor; terms used interchangeably. In most cases, the terms mixed and combined are used as synonyms; however the term mixed may designate a specific tumor.

**Not Otherwise Specified (NOS):** "Not Otherwise Specified."

**Same histology:** The first three digits of the ICD-O-3 histology code are identical.

**Coding Instructions**

Refer to "Determining Multiple Primaries" in the first section of this manual to determine the number of primaries. Use all of the information for a single primary to code the histology.

1. If there is no tumor specimen, code the histology described by the medical practitioner.

**Example 1:** The patient has a CT scan of the brain with a final diagnosis of glioblastoma multiforme (9440). The patient refuses all further workup or treatment. Code the histology to glioblastoma multiforme (9440).

**Example 2:** If the physician says that the patient has carcinoma, code carcinoma, NOS (8010).

2. Use the histology stated in the **final diagnosis** from the pathology report. Use the pathology from the procedure that resected the majority of the primary tumor.

If a more specific histologic type is definitely described in the microscopic portion of the pathology report or the comment, code the more specific diagnosis.



3. Lymphomas may be classified by the **WHO** Classification, **REAL** system, **Rappaport**, or **Working Formulation**. The WHO Classification is preferred. See page 13 in the ICD-O-3 for a discussion of hematologic malignancies.
4. Cases reported to SEER cannot have a metastatic (/6) behavior code. If the only pathology specimen is from a metastatic site, code the appropriate histology and the malignant behavior code /3. The primary site and its metastatic site(s) have the same basic histology.

### Histology Coding Rules for Single Tumor

- The rules are in hierarchical order. Rule 1 has the highest priority.
  - Use the rules in priority order.
  - Use the first rule that applies to the case. (Do not apply any additional rules.)
1. Code the histology if only one type is mentioned in the pathology report.
  2. Code the **invasive histology** when both invasive and in situ tumor are present.

**Example:** Pathology report reads infiltrating ductal carcinoma and cribriform ductal carcinoma in situ. Code the invasive histology 8500/3.

**Exception:** If the histology of the invasive component is an 'NOS' term (e.g., carcinoma, adenocarcinoma, melanoma, sarcoma), then code the histology of the specific term associated with the in situ component and an invasive behavior code.

3. Use the **mixed** histology code if one exists

**Examples** of mixed codes: (This is not a complete list, these are examples only)

- 8490 Mixed tumor, NOS
- 9085 Mixed germ cell tumor
- 8855 Mixed liposarcoma
- 8990 Mixed mesenchymal sarcoma
- 8951 Mixed mesodermal tumor
- 8950 Mixed Mullerian tumor
- 9362 Mixed pineal tumor
- 8940 Mixed salivary gland tumor, NOS
- 9081 Teratocarcinoma, mixed embryonal carcinoma and teratoma

4. Use a **combination** histology code if one exists

**Examples** of combination codes: (This is not a complete list; these are examples only)



8255 Renal cell carcinoma, mixed clear cell and chromophobe types

8523 Infiltrating duct carcinoma mixed with other types of carcinoma

8524 Infiltrating lobular carcinoma mixed with other types of carcinoma

8560 Adenosquamous carcinoma

8045 Combined small cell carcinoma, combined small cell-large cell

5. Code the **more specific term** when one of the terms is 'NOS' and the other is a more specific description of the same histology.

**Example 1:** Pathology report reads poorly differentiated carcinoma, probably squamous in origin. Code the histology as squamous cell carcinoma rather than the non-specific term "carcinoma."

**Example 2:** The pathology report from a nephrectomy reads renal cell carcinoma (8312) (renal cell identifies the affected organ system rather than the histology cell type) in one portion of the report and clear cell carcinoma (8310) (a histologic cell type) in another section of the report. Code clear cell carcinoma (8310); renal cell carcinoma (8312) refers to the renal system rather than the cell type, so renal cell is the less specific code.

6. Code the **majority** of tumor.
  - a. Based on the pathology report description of the tumor.
  - b. Based on the use of majority terms. See definition for majority terms.
7. Code the **numerically higher** ICD-O-3 code. This is the rule with the lowest priority and should be used infrequently.

**Histology Coding Rules for Multiple Tumors with Different Behaviors in the Same Organ Reported as a Single Primary**

Code the histology of the invasive tumor when one lesion is in situ (/2) and the other is invasive (/3).

**Example:** At mastectomy for removal of a 2 cm invasive ductal carcinoma, an additional 5 cm area of intraductal carcinoma was noted. Code histology and behavior as invasive ductal carcinoma (8500/3).

**Histology Coding Rules for Multiple Tumors in Same Organ Reported as a Single Primary**

1. Code the histology when multiple tumors have the same histology.
2. Code the histology to adenocarcinoma (8140/\_; in situ or invasive) when there is an adenocarcinoma and an adenocarcinoma in a polyp (8210/\_ , 8361/\_ , 8263/) in the same segment of the colon or rectum.

3. Code the histology to carcinoma (8010/\_; in situ or invasive) when there is a carcinoma and carcinoma in a polyp (8210/\_ ) in the same segment of the colon or rectum.
4. Use the **combination** code for the following:
  - a. Bladder: Papillary and urothelial (transitional cell) carcinoma (8130)
  - b. Breast: Paget Disease and duct carcinoma (8541)
  - c. Breast: Duct carcinoma and lobular carcinoma (8522)
  - d. Thyroid: Follicular and papillary carcinoma (8340)
5. Code the more specific term when one *SEER Program Coding and Staging Manual 2004*, Pages 84 – 87 of the terms is 'NOS' and the other is a more specific description of the same histology.
6. Code all other multiple tumors with different histologies as multiple primaries.

#### **Recording Tumor Markers In Collaborative Staging System Site-Specific Factors**

SOURCE: DSQC #2006-02

CATEGORY: Reference Document

EFFECTIVE DATE: Cases Diagnosed 1/1/2005 Forward

Statewide Distribution Date: June 29, 2006

Attached, please find a copy of the document "Recording Tumor Markers in Collaborative Staging System Site-Specific Factors." This resource, prepared by April Fritz, RHIT, CTR and approved by the CS Task Force and its medical consultants, is to be used to assist in the coding for those sites that collect tumor markers in the Collaborative Staging Site-Specific Factor fields.

As a reminder, the data item "Tumor Marker-California-1" (Her2/neu) is required by the CCR and is collected in its designated field.

Please apply these guidelines to all cases diagnosed 1/1/05 forward. Registrars are not expected to go back and apply these rules to cases already abstracted and submitted to the regional registry.

**Note:** In accordance with the CCR Visual Editing Standards, discrepancies resulting from this new information will not be counted for one month (30 days) after statewide distribution. The Date Completed on the abstract will be the date the visual editor will use to calculate the 30-day time frame.

#### **ATTACHMENT**

#### **Reportability - Benign Brain Tumors with an Unknown Year of Diagnosis**

SOURCE: DSQC Memo 2006-03,

CATEGORY: CLARIFICATION,  
EFFECTIVE: Immediately

Statewide Distribution Date: June 29, 2006

Do not report benign brain tumor cases with an unknown (9999) year of diagnosis. Only benign brain tumor cases with a diagnosis year of 2001 forward are required to be reported to the CCR.

**Use of document "Coding Regional Lymph Nodes For Breast Cancers"**

SOURCE: DSQC 2006-04

CATEGORY: REFERENCE DOCUMENT

EFFECTIVE DATE: Immediately

Statewide Distribution Date: December 12, 2006

Attached, please find a copy of the document "*Coding Regional Lymph Nodes For Breast Cancers.*" This resource was currently posted on the Collaborative Staging web site and is approved by the CS Task Force. It is also found in the front section of the Collaborative Staging Manual in Version 01.03.00. Here is the link:

<http://www.cancerstaging.org/cstage/BreastNodesExplanation.doc>

The purpose of the document is to clarify the reasons behind the codes in Breast CS Lymph Nodes and Site-Specific Factors 3-5 and to assist registrars in coding these fields correctly. Since this document serves to clarify coding instructions and does not change any of the fields, these guidelines can be used immediately.

Registrars are not expected to go back and apply these guidelines to cases already abstracted and submitted to the regional registry.

**Note:** In accordance with the CCR Visual Editing Standards, discrepancies resulting from this new information will not be counted for one month (30 days) after statewide distribution. The Date Completed on the abstract will be the date the visual editor will use to calculate the 30-day time frame.

## **CODING REGIONAL LYMPH NODES FOR BREAST**

(Collaborative Staging Web Site – 11/2006)

Coding regional lymph node involvement for breast cancers is more complex than for many other sites, especially when dealing with isolated tumor cells (ITCs) and micrometastases. The following may help clarify the reasons behind the codes in CS Lymph Nodes and Site-Specific Factors 3-5. For a more detailed explanation, see the section in the breast chapter of the *AJCC Cancer Staging Manual, 6<sup>th</sup> ed.*, called "Considerations for Evidence-Based Changes to the *AJCC Cancer Staging Manual, 6<sup>th</sup> Edition*" beginning on page 229.

**Isolated Tumor Cells (ITCs).** Pathologists can detect isolated tumor cells (ITCs) spread from a breast cancer into regional lymph nodes. These are

very small deposits of tumor cells, so small that they are **not** considered significant for assigning stage. They usually do not show evidence of malignant activity in the nodes, such as proliferation or stromal reaction. To be considered ITCs, they must be single tumor cells or small clusters not more than 0.2 mm. As more data are collected about these ITCs, their prognostic significance may be better understood. **At this time, nodes with only these ITCs are not considered positive nodes.** These ITCs are most often found using immunohistochemistry tests on sentinel lymph node specimens. The ITCs may sometimes also be seen on routine H&E-stained sections.

**Hematoxylin and Eosin (H & E).** (from " 'Hematoxylin & Eosin': (The Routine Stain)), by H. Skip Brown, BA, HT(ASCP), from:

<http://www.sigmaaldrich.com/img/assets/7361/Primer-H&Emay04.pdf>

In histology, the standard or '**routine stain**' is the **hematoxylin and eosin** stain, better known as the '**H&E**' stain. With rare exceptions, every specimen being examined will first receive an H&E stain to give the laboratorian a visible look at the nucleus of the cells and their present state of activity. With most disease states there is abnormal growth and/or division in the nucleus of the cells. The hematoxylin and eosin stain uses two separate dyes, one staining the nucleus and the other staining the cytoplasm and connective tissue. Hematoxylin is a dark purplish dye that will stain the chromatin (nuclear material) within the nucleus, leaving it a deep purplish-blue color. Eosin is an orangish-pink to red dye that stains the cytoplasmic material including connective tissue and collagen, and leaves an orange-pink counterstain. This counterstain acts as a sharp contrast to the purplish-blue nuclear stain of the nucleus, and helps identify other entities in the tissues such as cell membrane (border), red blood cells, and fluid.

**Immunohistochemistry (IHC).** Immunohistochemistry (IHC) tests use antibodies to stain for proteins of interest in tissue specimens. The IHC test for metastatic breast cancer in lymph nodes uses antibodies to cytokeratin, so the test may be called "cytokeratin staining". Other IHC tests are used on the primary breast tumor, rather than the lymph nodes, to assess estrogen and progesterone receptors and HER-2 neu (human epidermal growth factor receptor). In SSF 4, code only IHC results for ITCs in LYMPH NODES.

**Molecular Study: Reverse Transcriptase/Polymerase Chain Reaction (RT-PCR).** An even more sensitive test used to detect ITCs in lymph nodes is RT-PCR, a molecular test looking for expression of genes of interest. This test is rarely done.

**Micrometastasis.** When the tumor deposits in the lymph nodes are larger than 0.2 mm but not larger than 2.0 mm, they are defined as micrometastasis. **Nodes with micrometastasis ARE considered positive for staging.**

In coding CS Lymph Nodes and Site-Specific Factors 3-5, the important things to abstract are the size of the tumor detected in the lymph nodes and the methods of detection. The table below may help in coding this

information. Note that the table includes codes for axillary nodes only, not internal mammary nodes. The table is followed by examples to illustrate likely coding situations.

To use the table, identify the group (numbered I-VI) of applicable rows based on the information in column 2 that best represents the information in the case. Within that group, find the row or rows that represent the information in the case, and read right to the last four columns to find the codes to use. The group numbers are for convenience in using this chart only, and do not correlate with any anatomic groups of nodes.

GIVEN THIS INFORMATION . . .			USE THESE CODES . . .			
	Row Num-ber	IHC and/or Mol Studies Done, or Method of Detection/Verification	CS Lymph Nodes	SSF 3 (# pos ax)	SSF 4 (IHC)	SSF 5 (mol)
I.	1.	None; does not apply	00	098	000	000
Clinical information only; no pathological information used to code CS Lymph Nodes; no nodes examined pathologically, nodes clinically NEGATIVE						
II.	2.	None; does not apply	50, 60, or 99	098	888	888
Clinical information only; no pathological information used to code CS Lymph Nodes; no nodes examined pathologically, nodes clinically POSITIVE						
Nodes examined pathologically, nodes negative; no Isolated Tumor Cells (ITCs)	3.	Immunohistochemistry (IHC) (cytokeratin staining) not done, <b>OR</b> unknown if done	00	000	000	
	4.	IHC done, neg for tumor	00	000	001	
<b>NOTE:</b> SSF 4 and 5 are coded independently of each other.						
	5.	Molecular studies not done, <b>OR</b> unknown if done	00	000		000
III.	6.	Molecular studies done, neg for tumor	00	000		001

Nodes examined pathologically, Isolated	7.	H&E (routine stained slides)	05	000	888	888
Tumor Cells (ITCs) ONLY; Single tumor cells, or clusters < 0.2mm <b>OR</b> Immunohistochemistry (IHC) pos, NOS	8.	H&E neg, immunohistochemistry (IHC) (cytokeratin staining) not done, <b>OR</b> unknown if done	00	000	000	
	9.	H&E neg, IHC done, neg for ITCs	00	000	001	
<b>NOTE:</b> SSF 4 and 5 are coded independently of each other.	10.	H&E neg, IHC done, pos for ITCs	00	000	002	
	11.	H&E neg, IHC done, pos but size of deposits not stated	00	000	009	
	12.	H&E neg, molecular studies not done, or unknown if done	00	000		000
	13.	H&E neg, molecular studies done, neg for tumor	00	000		001
IV.	14.	H&E neg, molecular studies done, pos for ITCs	00	000		002

V. Nodes examined pathologically Tumor > 0.2mm, < 2.0mm (Micrometastasis)	15.	H&E neg, micromets on IHC (cytokeratin staining) ONLY	13	001-097	888	888
	16.	H&E pos for micromets	15	001-097	888	888
VI. Nodes examined pathologically Tumor > 2.0mm; positive lymph nodes	17.	Does not apply	25 or higher	001-097	888	888

Examples for Each Group:

Group I Example

1. Nodes clinically negative, patient refused further workup. [Row number 1]

Group II Examples

1. Fixed and matted ipsilateral axillary nodes clinically, patient had pre-op chemotherapy. Subsequent modified radical mastectomy showed negative axillary nodes. (CS Reg Nodes Eval = 5 in this case.) [Row number 2]
2. Axillary nodes clinically positive, patient refused further workup. [Row number 2]

Group III Examples

1. Sentinel nodes neg on H&E. IHC (cytokeratin stain) performed, negative for ITCs. Molecular studies not done. [Rows 4 and 5]
2. Modified radical mastectomy, path report with 12 lymph nodes neg for tumor, no special stains, cytokeratin, IHC, or molecular studies performed on lymph nodes. [Rows 3 and 5]
3. Sentinel nodes neg on H&E. Unknown if IHC done. RT-PCR done, negative for ITCs. [Rows 3 and 6]

Group IV Examples

1. Sentinel nodes neg on H&E. IHC (cytokeratin stain) performed, positive for ITCs.  
Unknown if molecular studies done. [Rows 10 and 12]
2. Sentinel nodes initially neg on H&E. IHC performed, positive for ITCs. No molecular studies done. ITCs then verified on H&E slides of the sentinel nodes. [Row 7 ONLY]
3. Class 3 case abstracted from clinical history. Sentinel nodes neg on H&E. IHC on sentinel nodes was positive, NOS. Molecular studies not mentioned. [Rows 11 and 12]
4. Sentinel nodes neg on H&E. Cytokeratin stain showed clusters of tumor cells in the node up to 0.15 mm. RT-PCR was pos for ITCs. [Rows 10 and 14]
5. Sentinel nodes neg on H&E. Unknown if IHC performed. RT-PCR study done, neg for ITCs. [Rows 8 and 13]
6. Sentinel nodes neg on H&E. IHC and RT-PCR negative for tumor. [Rows 9 and 13]

Group V Examples:

1. Path report, final diagnosis: "Lymph Nodes: one of three sentinel lymph nodes positive for capsular micrometastases."  
Microscopic description: "Sections of the first submitted sentinel lymph node demonstrate normal nodal architecture, however, on cytokeratin stain, micrometastases are noted in the capsule." [Row 15]



2. Path report, final diagnosis: "Lymph Nodes: one of three sentinel lymph nodes positive for capsular micrometastases." Microscopic description: "Sections of the first submitted sentinel lymph node demonstrate micrometastases in the capsule." No special studies are mentioned in the report. [Row 16]

Group VI Examples

1. Axilla neg on palpation. Modified radical mastectomy, 2/14 nodes positive. Largest metastasis 0.8 cm. [Row 17]

## DATA STANDARDS AND QUALITY CONTROL MEMORANDUM DSQC #2007- 04

CATEGORY: RESCINDING PREVIOUS MEMOS  
SUBJECT: DSQC Memos 2007-01 and 2007-02  
EFFECTIVE: Immediately

As a response to the recent message from the Collaborative Staging Steering Committee with regards to the use of the list of EOD clinically apparent and inapparent terms for prostate cancer (see message below), the CCR has rescinded DSQC Memos 2007-01 and DSQC Memo 2007-02 and removed them from the CCR web site. This is effective immediately. DSQC Memo 2007-01 instructed registrars to use the list of clinically apparent and inapparent terms for prostate cancer and DSQC Memo 2007-02 reviewed the appropriate use of prostate CS Extension codes 15 and 30.

Registrars are not required to go back and review or recode cases already submitted to the regional registry.

Also effective immediately, discrepancies for prostate CS Extension codes within the range of 13-30 will not be counted. However, prostate cases submitted with CS Extension code 30 that should actually be coded to a higher code, will still be visually edited and if miscoded, be counted as a discrepancy.

Registrars should continue to follow the instructions in the Collaborative Staging Manual and on the Collaborative Staging web site (FAQ section):  
<http://www.cancerstaging.org/cstage/faq.html>

Questions regarding this data item should be sent to the Commission on Cancer's Inquiry & Response System:  
<http://web.facs.org/coc/default.htm>



The Commission on Cancer's Inquiry and Response System and SEER SINQ (<http://seer.cancer.gov/seer inquiry/>) should also be checked regularly for additional information on how to code cases without reference to the list of clinically apparent and inapparent terms for prostate cancer.

The statement issued on August 31, 2007, by the Collaborative Staging Steering Committee is as follows:

*Clarification on the Use of Outside Resources for Coding Prostate Cancer*

*A great deal of confusion surrounds the interpretation of clinical reports with regard to whether the prostate cancer was apparent or inapparent. In 1998, SEER published an interpretation of "apparent" and "inapparent" terms for use in their Extent of Disease (EOD) Coding System for prostate cancer. This list was in effect for prostate EOD cases diagnosed in 1998-2003. There were several questions regarding whether this list could be used in Collaborative Staging (CS). After consultation with the AJCC curators for genitourinary disease, the CS Steering Committee has determined that the SEER list of terms for apparent and inapparent in the SEER Extent of Disease Manual is NOT to be used for interpreting reports for Collaborative Staging. While it was a convenient tool for registrars, the curators are of the opinion that the use of the list will lead to misinterpretation of reports. Rather, the curators recommend that registrars rely on a direct physician statement of apparent or inapparent disease for Collaborative Staging. It is not anticipated that prior cases will require review and recoding.*

## APPENDIX T

## CNExT OVER-RIDE FLAGS AND EDITS

Edit Name	CNExT Edit #	Flag Name
Date First Admission, Date Diagnosis (Calif)	ED1014	Override, DateDx/DateAdm
Primary Site, Behavior Code (C/NET IF39)	ED2000	Override, Site/Behavior
Morphology--Type & Behavior (C/NET MORPH)	ED2004	Override, Histology
Primary Site, Stage, EOD (Calif)	ED2010	Override, Site/Stage
Age, Primary Site, Morphology (C/NET IF15)	ED2015	Override, Age/Site/Morph
Diagnostic Confirm, Seq Num--Hospital (C/NET IF23)	ED2017	Override, SeqNo/DxConf
Diagnostic Confirmation, Behavior (C/NET IF31)	ED2018	Override, Histology
Diagnostic Confirmation, Histol Type (C/NET IF48)	ED2019	Override, Leuk, Lymphoma
Seq Num--Hosp, Primary Site, Morph (C/NET IF22)	ED2022	Override, Ill-defined Site
Primary Site, Morphology-Type Check (C/NET IF25)	ED2024	Override, Site/Type
Laterality, Primary Site, Morphology (C/NET IF42)	ED2030	Override, Site/Lat/Morph
Primary Site, Laterality, EOD (C/NET IF41)	ED2030	Override, Site/Lat/EOD
Date of Diagnosis, Primary Site, EOD (C/NET IF40)	ED2040	Override, Site/EOD/DX Date
RX Summ--Surgery Type, Diag Conf (C/NET IF46)	ED3011	Override, Surg/DxConf
Race - Spanish Origin - Birthplace (Calif)	ED6013	Override, Race/Spanish/Birthpl
Spanish Origin - Birthplace (Calif)	ED6014	Override, Spanish/Birthplace
Type of Report (DC), Seq Num--Hospital(C/NET IF04)	ED6015	Override, Report Source
First Name, Sex (Calif)	ED7004	Override, FirstName/Sex
Accession Number, Class of Case, Seq Number(C/NET)	ED7007	Override, Accession/Class/Seq Override, COC Site/Type
Diagnostic Confirm, Seq Num--Hospital (C/NET IF23)	ED2017	Override, Seq/Dx Confirm Override, Seq/Site Override, Site/Lat/SeqNum Override, Site/TNM Stage
Summary Stage 2000, Site Dist Met 1 (CNET)	ED2029	Override, Stage/Dist Mets
Summary Stage 2000, Regional Nodes Pos (CNET)	ED2028	Override, Stage/Nodes Pos
Summary Stage 2000, TNM M (CNET)	ED2050	Override, Stage/TNM-M
Summary Stage 2000, TNM N (CNET)	ED2051	Override, Stage/TNM-N
<b>Seq Num-Hosp, Primary Site, Morphology</b>	<b>ED2514</b>	<b>Override, Hosp Seq/Site</b>

**APPENDIX U**

**TABLE OF DATA ITEMS AND THEIR REQUIRED STATUS**

Reporting requirements are not uniform for all cancer reporting facilities. Consult the following table to determine which data items must be reported:

**Key to Symbols**

<b>yes</b>	REQUIRED ON ALL CASES (cannot be blank, but can be coded UNKNOWN)
<b>yes*</b>	REQUIRED ON ALL CASES, BUT IF INFORMATION IS NOT AVAILABLE OR NOT APPLICABLE CAN BE LEFT BLANK
<b>sel</b>	REQUIRED ON SELECTED IDENTIFIABLE CASES, SUCH AS CERTAIN SITES OR YEARS OF DIAGNOSIS (left blank or a specific entry is required on other cases, such as code 0, 9, or UNKNOWN)
<b>no</b>	NOT A PART OF THE DATA SET
<b>may</b>	PART OF THE DATA SET BUT NOT REQUIRED (may be left blank on any and all cases)
<b>gen</b>	GENERATED BY COMPUTER, BY THE REGIONAL REGISTRY, OR BY THE CALIFORNIA CANCER REGISTRY
<b>res</b>	RESERVED FIELD. LEAVE BLANK
<b>C/N</b>	DESIGNATES THE CNExT DATA SET
<b>Hosp&gt; Regn</b>	DESIGNATES THE DATA SET REQUIRED FOR REPORTING BY HOSPITALS TO REGIONAL REGISTRIES IN CALIFORNIA
<b>RX CTR</b>	DESIGNATES THE DATA SET REQUIRED FOR REPORTING BY NON-HOSPITAL TREATMENT CENTERS TO REGIONAL REGISTRIES IN CALIFORNIA
<b>Manual</b>	INDICATES WHERE INSTRUCTIONS FOR THE ITEM ARE FOUND: SECTION NUMBER (indicates section of Volume I <i>Abstracting and Coding Procedures for Hospitals</i> ); VOL. 2 (California Cancer Reporting System Standards, Volume Two: <i>Standards for Automated Reporting</i> ); OR C/N USER ( <i>CNExT User Manual</i> )

See the NAACCR *Data Standards and Data Dictionary (Volume II, Eleventh Edition, Record Layout Version 11.1)* for Data Items Required by SEER and the Commission on Cancer.

[http://www.naacr.org/filesystem/pdf/2007\\_Required\\_Status\\_Table\\_11.1.pdf](http://www.naacr.org/filesystem/pdf/2007_Required_Status_Table_11.1.pdf)

**Data Items and Their Required Status**

<b>Item Name</b>	<b>Manual</b>	<b>C/N</b>	<b>RX Ctr</b>	<b>Hosp&gt; Regn</b>
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Abstractor	III.1.1	yes	yes	yes
Accession Number (Hosp)	II.2.3	yes	yes	yes
ACoS Approved Flag	III.1.6	yes	yes	yes
Address at Diagnosis City	III.2.5	yes	yes	yes
<b>Address at Diagnosis City USPS</b>	<b>III.2.5.7</b>	<b>yes</b>	<b>yes</b>	<b>yes</b>
Address at Diagnosis No. & Street	III.2.5	yes	yes	yes
Address at Diagnosis No. & Street - Supplemental	III.2.5	yes*	yes*	yes*
Address at Diagnosis - State	III.2.5	yes	yes	yes
Address at Diagnosis - Zip Code	III.2.5	yes	yes	yes
Age at Diagnosis	III.2.11	gen	gen	gen
Alias First Name	III.2.1.6	yes*	yes*	yes*
Alias Last Name	III.2.1.5	yes*	yes*	yes*
Ambiguous Terminology Dx	II.1.6.3	yes	yes	yes
Birth Date	III.2.10	yes	yes	yes
Birthplace	III.2.12	yes	yes	yes
Casefinding Source	III.3.8	yes	yes	yes
Cause of Death	VII.2.14	may	no	no
Chemotherapy at This Hospital	VI.4	yes	yes	yes
Chemotherapy Summary	VI.4	yes	yes	yes
Class of Case	III.3.5	yes	yes	yes
Coding Procedure	III.1.5	gen	gen	yes
Comorbidity Complications 1	III.3.13	yes*	yes*	yes*
Comorbidity Complications 2	III.3.13	yes*	yes*	yes*
Comorbidity Complications 3	III.3.13	yes*	yes*	yes*
Comorbidity Complications 4	III.3.13	yes*	yes*	yes*
Comorbidity Complications 5	III.3.13	yes*	yes*	yes*
Comorbidity Complications 6	III.3.13	yes*	yes*	yes*
Comorbidity Complications 7	III.3.13	yes*	yes*	yes*
Comorbidity Complications 8	III.3.13	yes*	yes*	yes*
Comorbidity Complications 9	III.3.13	yes*	yes*	yes*
Comorbidity Complications 10	III.3.13	yes*	yes*	yes*
Contact City	VII.3	yes*	yes*	yes*
Contact Country	VII.3	may	may	may
Contact Name	VII.3	yes*	yes*	yes*
Contact State	VII.3	yes*	yes*	yes*
Contact Street	VII.3	yes*	yes*	yes*
Contact Street - Supplemental	VII.3	yes*	yes*	yes*

Contact Zip	VII.3	yes*	yes*	yes*
County of Residence at Diagnosis	III.2.5	yes	yes	yes
CS Tumor Size	V.4.2	yes	yes	yes
CS Extension	V.4.2	yes	yes	yes
CS Tumor Size/Extension Evaluation	V.4.2	yes	yes	yes
CS Lymph Nodes	V.4.2	yes	yes	yes
CS Lymph Nodes Evaluation	V.4.2	yes	yes	yes
CS Metastasis at Diagnosis	V.4.2	yes	yes	yes
CS Metastasis Evaluation	V.4.2	yes	yes	yes
CS Site Specific Factor 1	V.4.2	yes	yes	yes
CS Site Specific Factor 2	V.4.2	yes	yes	yes
CS Site Specific Factor 3	V.4.2	yes	yes	yes
CS Site Specific Factor 4	V.4.2	yes	yes	yes
CS Site Specific Factor 5	V.4.2	yes	yes	yes
CS Site Specific Factor 6	V.4.2	yes	yes	yes
CS Version 1st	V.4.2	yes	yes	yes
CS Version Latest	V.4.2	yes	yes	yes
Date of Conclusive Dx	II.1.6.4	yes	yes	yes
Date of Chemotherapy	VI.1.3.2	sel	sel	yes*
Date of Diagnosis	III.3.3	yes	yes	yes
Date of First Admission	III.3.1	yes	yes	yes
Date of Inpatient Admission	III.3.2	yes*	no	yes*
Date of Inpatient Discharge	III.3.2	yes*	no	yes*
Date of Hormone Therapy	VI.1.3.2	sel	sel	yes*
Date of Immunotherapy	VI.1.3.2	sel	sel	yes*
Date of Last Patient Contact or Death	VII.2.1	yes	yes	yes
Date of Last Tumor Status	VII.2.3	yes	yes	yes
Date of Most Definitive Surgery of the Primary Site	VI.2.5	gen	gen	yes*
Date of Multiple Tumors	II.1.3.9.2	yes	yes	yes
Date of Other Therapy	VI.1.3.2	sel	sel	yes*
Date of Radiation	VI.1.3.2	sel	sel	yes*
Date of Systemic Therapy	VI.1.3.2	gen	gen	yes*
Date of Surgery	VI.1.3.2	gen	gen	yes*
Date of Surgery Diagnostic or Staging Procedures	VI.2.12	sel	sel	yes*
Date of Surgery Procedures 1-3	VI.2.5	sel	sel	yes
Date of Therapy	Vol III	no	no	no

Date of Transplant/Endocrine Procedures	VI.7.2	sel	sel	yes*
Death File Number	VII.2.14	may	no	no
Derived AJCC T	V.4.2	yes	yes	yes
Derived AJCC T Descriptor	V.4.2	yes*	yes*	yes*
Derived AJCC N	V.4.2	yes	yes	yes
Derived AJCC N Descriptor	V.4.2	yes*	yes*	yes*
Derived AJCC M	V.4.2	yes	yes	yes
Derived AJCC M Descriptor	V.4.2	yes*	yes*	yes*
Derived AJCC Stage Group	V.4.2	yes	yes	yes
Derived SS2000	V.4.2	yes	yes	yes
Derived SS1977	V.4.2	yes	yes	yes
Derived AJCC - Flag	V.4.2	yes	yes	yes
Derived SS2000 - Flag	V.4.2	yes	yes	yes
Derived SS1977 - Flag	V.4.2	yes	yes	yes
Diagnostic Confirmation	IV.2	yes	yes	yes
Discovered by Screening	III.3.15	yes	no	may
<b><i>DxRx Report Facility ID (1-5)</i></b>	<b><i>IV.3.1</i></b>	<b><i>yes</i></b>	<b><i>yes</i></b>	<b><i>yes</i></b>
<b><i>DxRx Report Number (1-5)</i></b>	<b><i>IV.3.2</i></b>	<b><i>yes</i></b>	<b><i>yes</i></b>	<b><i>yes</i></b>
<b><i>DxRx Report Date (1-5)</i></b>	<b><i>IV.3.3</i></b>	<b><i>yes</i></b>	<b><i>yes</i></b>	<b><i>yes</i></b>
<b><i>DxRx Report Type (1-5)</i></b>	<b><i>IV.3.4</i></b>	<b><i>yes</i></b>	<b><i>yes</i></b>	<b><i>yes</i></b>
EOD Extension	V.4	yes	yes	yes
EOD Extension (Path)	V.4	yes	yes	yes
EOD - Lymph Node Involvement	V.4	yes	yes	yes
First Name	III.2.1.2	yes	yes	yes
Follow up Contact Address Other	VII.3	yes*	yes*	yes
Follow up Contact Address Other - Supplemental	VII.3	yes*	yes*	yes*
Follow up Contact City Other	VII.3	yes*	yes*	yes
Follow up Contact Name Other	VII.3	yes*	yes*	yes
Follow up Contact State Other	VII.3	yes*	yes*	yes
Follow up Contact Zip Other	VII.3	yes*	yes*	yes
Follow up Last Type (Patient)	VII.2.6.2	yes	yes	yes
Follow up Last Type (Tumor)	VII.2.6.1	yes	yes	yes
Follow up Next Type	VII.2.8	yes*	yes*	yes*
Follow up Hospital (Next)	VII.2.9	yes*	no	no
Follow up Hospital (Last)	VII.2.7	yes	yes	yes
Histology Text	IV.1.7	yes	yes	yes
HistologyBehavior (ICD-O-2)	V.3.4	yes	yes	yes

Histology-Behavior (ICD-O-3)	V.3.4	yes	yes	yes
HistologyGrade/ Differentiation	V.3.5	yes	yes	yes
HistologyType (ICD-O-2)	V.3	yes	yes	yes
Histology-Type (ICD-O-3)	V.3	yes	yes	yes
Hormone Therapy at This Hospital	VI.5	yes	yes	yes
Hormone Therapy Summary	VI.5	yes	yes	yes
Hospital Number (Reporting)	III.1.4	yes	yes	yes
Hospital Patient Number	Vol. 2	gen	gen	yes
Hospital Referred From	III.3.10	yes	yes	yes
Hospital Referred To	III.3.11	yes	yes	yes
ICD Revision Comorbidities	III.3.14	yes	yes	yes
ICD-O-3 Conversion Flag	Vol. 2	gen	gen	yes
Immunotherapy at This Hospital	VI.6	yes	yes	yes
Immunotherapy Summary	VI.6	yes	yes	yes
Industry Text	III.2.13.2	yes	no	yes
Last Name	III.2.1.1	yes	yes	yes
Laterality	V.2	yes	yes	yes
Maiden Name	III.2.1.4	yes*	yes*	yes*
Marital Status	III.2.6	yes	yes	yes
Medical Record Number	III.2.2	yes*	yes*	yes*
Middle Name	III.2.1.3	yes*	yes*	yes*
Mothers First Name	III.2.1.9	yes*	yes*	yes*
Multiple Tumors Reported as One Primary	II.1.3.9.3	yes	yes	yes
Multiplicity Counter	II.1.3.9.1	yes	yes	yes
Name Suffix	III.2.1.8	yes*	yes*	yes*
Number of Regional Lymph Nodes Examined Surgery Summary	VI.2.2	gen	gen	sel
Number of Regional Lymph Nodes Examined Procedures 1-3	VI.2.3	yes	yes	no
NPI Reporting Facility	III.1.4	yes*	yes*	yes*
NPI Hospital Referred From	III.3.10	yes*	yes*	yes*
NPI Hospital Referred To	III.3.11	yes*	yes*	yes*
NPI Following Registry	Appendix X	yes*	yes*	yes*
NPI Physician-Managing	III.3.12	yes*	yes*	yes*
NPI Physician-Primary Surgeon	III.3.12	yes*	yes*	yes*
NPI Physician-Follow-up	VII.2.10	yes*	yes*	yes*
NPI Physician 3	III.3.12	yes*	yes*	yes*

NPI Physician 4	III.3.12	yes*	yes*	yes*
NPI Physician Other 1	III.3.12	yes*	yes*	yes*
NPI Physician Other 2	III.3.12	yes*	yes*	yes*
NPI Archive FIN	Appendix X	no	no	no
Occupation Text	III.2.13.1	yes	no	yes
Other Therapy at This Hospital	VI.7	yes	yes	yes
Other Therapy Summary	VI.7	yes	yes	yes
Over-ride Flags	Appendix T	yes	yes	yes
Patient No Research Contact Flag	III.2.14	yes	yes	yes
Payment Source (Primary)	III.3.9	yes	yes	yes
Payment Source (Secondary)	III.3.9	yes*	yes*	yes*
Payment Source Text	III.3.9	yes	yes	yes
Pediatric Stage	V.7.8	sel	sel	sel
Pediatric Stage Coder	V.7.10	sel	sel	sel
Pediatric Stage System	V.7.9	sel	sel	sel
Phone Number (Patient)	III.2.4	yes*	yes*	yes*
Physician (Attending)	III.3.12	yes	yes	yes
Physician (Following)	VII.2.10	yes*	yes*	yes*
Physician (Medical Oncologist)	III.3.12	yes*	yes*	yes*
Physician (Other)	III.3.12	yes*	yes*	yes*
Physician (Other)	III.3.12	yes*	yes*	yes*
Physician (Radiation Oncologist)	III.3.12	yes*	yes*	yes*
Physician (Referring)	III.3.12	yes*	yes*	yes*
Physician (Surgeon)	III.3.12	yes*	yes*	yes*
Place of Death	VII.2.14	sel	yes*	yes*
Place of Diagnosis	III.3.4	may	may	yes*
Protocol Participation	VI.9	sel	sel	sel
Quality of Survival	VII.2.5	may	no	no
Race 1	III.2.9	yes	yes	yes
Race 2	III.2.9	yes	yes	yes
Race 3	III.2.9	yes	yes	yes
Race 4	III.2.9	yes	yes	yes
Race 5	III.2.9	yes	yes	yes
Radiation at This Hospital	VI.3	yes	no	no
Radiation - Boost RX Modality	VI.3.4	yes	yes	yes
<b>Radiation - Location of Treatment</b>	<b>VI.3.8</b>	<b>yes</b>	<b>yes</b>	<b>yes</b>
Radiation - Regional RX Modality	VI.3.3	yes	yes	yes
Radiation Summary	VI.3	yes	yes	yes



Radiation/Surgery Sequence	VI.3.4	yes	yes	yes
Reason for No Radiation	VI.3.3	yes	yes	yes
Reason for No Surgery	VI.2.10	yes	yes	yes
Recurrence Date	VII.2.13.1	may	may	may
Recurrence Sites	VII.2.13.3	may	may	may
Recurrence Type	VII.2.12.2	may	may	may
Regional Data	-	may	may	yes*
EOD- Regional Nodes Examined	V.4	yes	yes	yes
EOD- Regional Nodes Positive	V.4	yes	yes	yes
Religion	III.2.8	yes	yes	yes
Scope of Regional Lymph Node Surgery 98-02 Summary	VI.2.2	gen	gen	sel
Scope of Regional Lymph Node Surgery Summary	VI.2.2	gen	gen	yes
Scope of Regional Lymph Node Surgery Procedures 1-3	V.7.12	yes	yes	yes
Sequence Number	II.2.4	yes	yes	yes
Sex	III.2.7	yes	yes	yes
Site Text	IV.1	yes	yes	yes
Site, Primary	V.1.1	yes	yes	yes
Social Security Number	III.2.3	yes*	yes*	yes*
Social Security Number Suffix	III.2.3	yes*	yes*	yes*
Spanish/Hispanic Origin	III.2.9.2	yes	yes	yes
Stage-Alternate	V.5.6	may	may	may
<b>Staging Text</b>	<b>IV.3.5</b>	<b>yes</b>	<b>yes</b>	<b>yes</b>
Summary Stage 1977	V.5	sel	sel	sel
Summary Stage 2000	V.5	sel	sel	sel
Surgery at This Hospital Diagnostic or Staging Procedure	VI.2.11	yes	yes	yes
Surgery at This Hospital Reconstructive	VI.2.8	yes	no	no
Surgery at This Hospital	VI.2.1	gen	gen	no
Surgery of Primary Site 9802 Summary	VI.2.1	gen	gen	sel
Surgery of Primary Site Summary	VI.2.1	gen	gen	yes
Surgery of Primary Site Procedures 1-3	VI.2.1	yes	yes	yes
Surgery of Other Site Summary 98-02	VI.2.4	gen	gen	sel
Surgery of Other Regional Site(s), Distant Site(s), or	VI.2.4	gen	gen	yes

## Distant Lymph Node(s) Summary

Surgery of Other Regional Site(s), Distant Site(s), or Distant Lymph Node(s) Procedures 1-3	VI.2.4	yes	yes	yes
Surgery Summary Diagnostic or Staging Procedure	VI.2.11	yes	yes	yes
Surgery Summary Reconstructive Surgical Margins Procedures 1-3	VI.2.8 VI.2.7	yes	yes	yes
Surgical Margins Summary	VI.2.7	gen	gen	no
Systemic/Surgery Sequence	VI.2.14	yes	yes	yes
Text RX Chemotherapy	VI.4	sel	sel	sel
Text RX Hormone Therapy	VI.5	sel	sel	sel
Text RX Immunotherapy	VI.6	sel	sel	sel
Text RX Other Therapy	VI.7	sel	sel	sel
Text RX Radiation (Beam)	VI.3	sel	sel	sel
Text RX Radiation (Other)	VI.3	sel	sel	sel
Text RX Radiation Boost RX Modality	VI.3	sel	sel	sel
Text RX Radiation Regional RX Modality	VI.3	sel	sel	sel
Text RX Surgery	VI.2	sel	sel	sel
Text DxProc Lab Tests	IV.1.5	yes*	yes*	yes*
Text DxProc Operative	IV.1.6	yes*	yes*	yes*
Text DxProc Pathological	IV.1.7	yes*	yes*	yes*
Text DxProc PE	IV.1.2	yes*	yes*	yes*
Text DxProc Scopes	IV.1.4	yes*	yes*	yes*
Text DxProc Xray	IV.1.3	yes*	yes*	yes*
Text Remarks	VIII.1	yes*	yes*	yes*
TNM Coder (Clinical)	V.7.6	yes*	yes*	yes*
TNM Coder (Path)	V.7.6	yes*	yes*	yes*
TNM Edition	V.7.7	yes*	yes*	yes*
TNM Stage (Clinical)	V.7.5	yes*	yes*	yes*
TNM Stage (Path)	V.7.5	yes*	yes*	yes*
TNM M Code (Clinical)	V.7.4	yes*	yes*	yes*
TNM M Code (Path)	V.7.4	yes*	yes*	yes*
TNM N Code (Clinical)	V.7.4	yes*	yes*	yes*
TNM N Code (Path)	V.7.4	yes*	yes*	yes*
TNM T Code (Clinical)	V.7.4	yes*	yes*	yes*

TNM T Code (Path)	V.7.4	yes*	yes*	yes*
Transplant/Endocrine Procedures At This Hospital	VI.7.1	yes	yes	yes
Transplant/Endocrine Procedures Summary	VI.7.1	yes	yes	yes
Treatment Hospital Number- Procedure 1-3	VI.2.6	yes	yes	yes
Tumor Markers 1-3	V.6	sel	sel	sel
Tumor Marker-CA-1	V.6.4	sel	sel	sel
Tumor Size	V.4	yes	yes	yes
Tumor Status	VII.2.4	yes	yes	yes
Type of Admission	III.3.7	yes	yes	yes
Type of Reporting Source	III.3.6	yes	yes	yes
Vendor Version		gen	yes	gen
Vital Status	VII.2.2	yes	yes	yes
Year First Seen	II.2.1	yes	no	yes

Note: As of 1/1/2008, data items Pathology Report Number Biopsy/FNA and Pathology Report Number - Surgery became obsolete. For cases diagnosed prior to 1/1/2008, the data in these fields were converted to the DxRx Report Number 1 and 2 fields.

## Appendix V: Brain and CNS Site/Histology Listing

Based on ICD-O-3 SEER Site/Histology Validation list

Reviewed by Neuropathologists: Drs. Roger McLendon, Janet Bruner, Steven Moore  
SEER: Lynn Ries  
CBTRUS: Dr. Bridget McCarthy, Carol Kruchko

**Underlined bold type** indicates histology codes with a benign or uncertain behavior code that have been added by CBTRUS and not contained in the ICD-O-3 SEER Site/Histology Validation List.

**Bold type** indicates histology codes with a malignant behavior code that have been added by CBTRUS and not contained in the ICD-O-3 SEER Site/Histology Validation List.

**Red color** indicates histology codes new to the ICD-O-3 SEER Site/Histology Validation List.

Meninges - Brain/Spinal Cord/Cranial Nerves - Ventricle - Cerebellum - Other Nervous System - Pituitary - Pineal

### **MENINGES (CEREBRAL, SPINAL) C700-C709**

NEOPLASM

800

**8000/0 Neoplasm, benign**

**8000/1 Neoplasm, uncertain whether benign or malignant**

8000/3 Neoplasm, malignant

**8001/0 Tumor cells, benign**

**8001/1 Tumor cells, uncertain whether benign or malignant**

8001/3 Tumor cells, malignant

**8005/3 Malignant tumor, clear cell type**

NEVI & MELANOMAS

872

**8720/3 Malignant melanoma, NOS**

**8728/0 Diffuse melanocytosis**

**8728/1 Meningeal melanocytoma**

**8728/3 Meningeal melanomatosis**

SARCOMA, NOS

880

**8800/0 Soft tissue tumor, benign**

		8800/3 Sarcoma, NOS
		8801/3 Spindle cell sarcoma
		8805/3 Undifferentiated sarcoma
		8806/3 Desmoplastic small round cell tumor
FIBROMATOUS NEOPLASMS	881	<b><u>8810/0 Fibroma, NOS</u></b> <b>8810/3 Fibrosarcoma, NOS</b> <b><u>8815/0 Solitary fibrous tumor</u></b>
LIPOMATOUS NEOPLASMS	885	<b><u>8850/0 Lipoma, NOS</u></b> <b><u>8851/0 Fibrolipoma</u></b>
ANGIOLIPOMA	886	<b><u>8861/0 Angiolipoma, NOS</u></b>
MYOMATOUS NEOPLASMS	889	<b>8890/3 Leiomyosarcoma, NOS</b>
EMBRYONAL RHABDOMYOSARCOMA	891	<b>8910/3 Embryonal rhabdomyosarcoma, NOS</b>
TERATOMA	908	<b><u>9080/0 Teratoma, benign</u></b> <b><u>9080/1 Teratoma, NOS</u></b> <b>9080/3 Teratoma, malignant, NOS</b> <b><u>9084/0 Dermoid cyst, NOS</u></b> <b>9084/3 Teratoma with malign. transformation</b>
BLOOD VESSEL TUMORS	912	<b><u>9120/0 Hemangioma, NOS</u></b> <b><u>9121/0 Cavernous hemangioma</u></b>

HEMANGIOPERICYTOMA	915	<p><b><u>9150/0 Hemangiopericytoma, benign</u></b></p> <p><b><u>9150/1 Hemangiopericytoma, NOS</u></b></p> <p>9150/3 Hemangiopericytoma, malignant</p>
HEMANGIOBLASTOMA	916	<p><b><u>9161/1 Hemangioblastoma</u></b></p>
OSSEOUS & CHONDROMATOUS NEOPLASMS	924	<p>9240/3 Mesenchymal chondrosarcoma</p>
MENINGIOMA	953	<p><b><u>9530/0 Meningioma, NOS</u></b></p> <p><b><u>9530/1 Meningiomatosis, NOS</u></b></p> <p>9530/3 Meningioma, malignant</p> <p><b><u>9531/0 Meningothelial meningioma</u></b></p> <p><b><u>9532/0 Fibrous meningioma</u></b></p> <p><b><u>9533/0 Psammomatous meningioma</u></b></p> <p><b><u>9534/0 Angiomatous meningioma</u></b></p> <p><b><u>9537/0 Transitional meningioma</u></b></p> <p><b><u>9538/1 Clear cell meningioma</u></b></p> <p>9538/3 Papillary meningioma</p> <p><b><u>9539/1 Atypical meningioma</u></b></p> <p>9539/3 Meningeal sarcomatosis</p>
MALIGNANT LYMPHOMA, NOS	959	<p>9590/3 Malignant lymphoma, NOS</p> <p>9591/3 Malignant lymphoma, non-Hodgkin</p> <p>9596/3 Composite Hodgkin and non-Hodgkin lymphoma</p>
HODGKIN LYMPHOMA	965	<p>9650/3 Hodgkin lymphoma, NOS</p>

9651/3 Hodgkin lymphoma, lymphocyte-rich

9652/3 Hodgkin lymphoma, mixed cellularity, NOS

9653/3 Hodgkin lymphoma, lymphocytic deplet., NOS

9654/3 Hodgkin lymphoma, lymphocyt. deplet., diffuse fibrosis

9655/3 Hodgkin lymphoma, lymphocyt. deplet., reticular

9659/3 Hodgkin lymphoma, nodular lymphocyte predom.

HODGKIN LYMPHOMA, NOD. SCLER. 966

9661/3 Hodgkin granuloma

9662/3 Hodgkin sarcoma

9663/3 Hodgkin lymphoma, nodular sclerosis, NOS

9664/3 Hodgkin lymphoma, nod. scler., cellular phase

9665/3 Hodgkin lymphoma, nod. scler., grade 1

9667/3 Hodgkin lymphoma, nod. scler., grade 2

ML, SMALL B-CELL LYMPHOCYTIC 967

9670/3 ML, small B lymphocytic, NOS

9671/3 ML, lymphoplasmacytic

9673/3 Mantle cell lymphoma

9675/3 ML, mixed sm. and lg. cell, diffuse

ML, LARGE B-CELL, DIFFUSE 968

9680/3 ML, large B-cell, diffuse

9684/3 ML, large B-cell, diffuse, immunoblastic, NOS

9687/3 Burkitt lymphoma, NOS

FOLLIC. & MARGINAL 969

LYMPH, NOS		9690/3 Follicular lymphoma, NOS 9691/3 Follicular lymphoma, grade 2 9695/3 Follicular lymphoma, grade 1 9698/3 Follicular lymphoma, grade 3 9699/3 Marginal zone B-cell lymphoma, NOS
T-CELL LYMPHOMAS	970	9701/3 Sezary syndrome 9702/3 Mature T-cell lymphoma, NOS 9705/3 Angioimmunoblastic T-cell lymphoma
OTHER SPEC. NON-HODGKIN LYMPHOMA	971	9714/3 Anaplastic large cell lymphoma, T-cell and Null cell type 9719/3 NK/T-cell lymphoma, nasal and nasal-type
PRECURS. CELL LYMPHOBLASTIC LYMPH.	972	9727/3 Precursor cell lymphoblastic lymphoma, NOS 9728/3 Precursor B-cell lymphoblastic lymphoma 9729/3 Precursor T-cell lymphoblastic lymphoma
PLASMA CELL TUMORS	973	9731/3 Plasmacytoma, NOS 9734/3 Plasmacytoma, extramedullary
MAST CELL TUMORS	974	9740/3 Mast cell sarcoma 9741/3 Malignant mastocytosis
NEOPLASMS OF HISTIOCYTES AND	975	9750/3 Malignant histiocytosis



ACCESSORY LYMPHOID  
CELLS

9754/3 Langerhans cell histiocytosis,  
disseminated

9755/3 Histiocytic sarcoma

9756/3 Langerhans cell sarcoma

9757/3 Interdigitating dendritic cell  
sarcoma

9758/3 Follicular dendritic cell  
sarcoma

**BRAIN, C710-C714 & C717-C719, (EXCL. VENTRICLE, CEREBELLUM)**  
**SPINAL CORD C720 , CAUDA EQUINA C721 & CRANIAL NERVES,**  
**C722-C725**

NEOPLASM

800

**8000/0 Neoplasm, benign**

**8000/1 Neoplasm, uncertain  
whether benign or malignant**

**8000/3 Neoplasm, malignant**

**8001/0 Tumor cells, benign**

**8001/1 Tumor cells, uncertain  
whether benign or malignant**

8001/3 Tumor cells, malignant

8002/3 Malignant tumor, small cell  
type

8003/3 Malignant tumor, giant cell  
type

8004/3 Malignant tumor, spindle  
cell type

8005/3 Malignant tumor, clear cell  
type

PARAGANGLIOMA

868

**8680/1 Paraganlioma, NOS**

NEVI & MELANOMAS

872

**8720/3 Malignant melanoma**

SARCOMA, NOS

880

**8800/0 Soft tissue tumor,**

		<b><u>benign</u></b>
		8800/3 Sarcoma, NOS
		8801/3 Spindle cell sarcoma
		8805/3 Undifferentiated sarcoma
		8806/3 Desmoplastic small round cell tumor
LIPOMATOUS NEOPLASMS	885	
		<b><u>8850/0 Lipoma, NOS</u></b>
		<b><u>8851/0 Fibrolipoma</u></b>
		<b>8851/3 Liposarcoma</b>
GERM CELL TUMORS	906	
		<b>9060/3 Dysgerminoma</b>
		<b>9064/3 Germinoma</b>
EMBRYONAL CARCINOMA	907	
		<b>9070/3 Embryonal carcinoma, NOS</b>
		<b>9071/3 Yolk Sac Tumor</b>
TERATOMA	908	
		<b><u>9080/0 Teratoma, benign</u></b>
		<b><u>9080/1 Teratoma, NOS</u></b>
		<b>9080/3 Teratoma, malignant, NOS</b>
		<b>9081/3 Teratocarcinoma</b>
		<b>9085/3 Mixed germ cell tumor</b>
TROPHOBLASTIC NEOPLASMS	910	
		<b>9100/3 Choriocarcinoma, NOS</b>
BLOOD VESSEL TUMORS	912	
		<b><u>9120/0 Hemangioma, NOS</u></b>
		<b><u>9121/0 Cavernous</u></b>

		<b><u>hemangioma</u></b>
		<b><u>9122/0 Venous hemangioma</u></b>
HEMANGIOENDOTHELIOMA	913	
		<b><u>9131/0 Capillary hemangioma</u></b>
HEMANGIOPERICYTOMA	915	
		<b><u>9150/1 Hemangiopericytoma, NOS</u></b>
HEMANGIOBLASTOMA	916	
		<b><u>9161/1 Hemangioblastoma</u></b>
CHORDOMA	937	
		9370/3 Chordoma,
		9371/3 Chondroid chordoma
		9372/3 Dedifferentiated chordoma
GLIOMA	938	
		9380/3 Glioma, malignant
		9381/3 Gliomatosis cerebri
		9382/3 Mixed glioma
		<b><u>9383/1 Subependymoma</u></b>
		<b><u>9384/1 Subependymal giant cell astrocytoma</u></b>
EPENDYMOMA, NOS	939	
		9391/3 Ependymoma, NOS
		9392/3 Ependymoma, anaplastic
		9393/3 Papillary Ependymoma
		<b><u>9394/1 Myxopapillary ependymoma</u></b>
ASTROCYTOMA, NOS	940	
		9400/3 Astrocytoma, NOS
		9401/3 Astrocytoma, anaplastic

PROTOPLASMIC ASTROCYTOMA	941	<p>9410/3 Protoplasmic astrocytoma</p> <p>9411/3 Gemistocytic astrocytoma</p> <p><b><u>9412/1 Desmoplastic infantile astrocytoma</u></b></p> <p><b><u>9413/0 Dysembryoplastic neuroepithelial tumor</u></b></p>
FIBRILLARY ASTROCYTOMA	942	<p>9420/3 Fibrillary astrocytoma</p> <p><u>9421/1 Pilocytic astrocytoma</u></p> <p>9423/3 Polar spongioblastoma</p> <p>9424/3 Pleomorphic xanthoastrocytoma</p>
ASTROBLASTOMA	943	<p>9430/3 Astroblastoma</p>
GLIOBLASTOMA, NOS	944	<p>9440/3 Glioblastoma, NOS</p> <p>9441/3 Giant cell glioblastoma</p> <p><b><u>9442/1 Gliofibroma</u></b></p> <p>9442/3 Gliosarcoma</p> <p><b><u>9444/1 Chordoid glioma</u></b></p>
OLIGODENDROGLIOMA, NOS	945	<p>9450/3 Oligodendroglioma, NOS</p> <p>9451/3 Oligodendroglioma, anaplastic</p>
OLIGODENDROBLASTOMA	946	<p>9460/3 Oligodendroblastoma</p>
PRIMITIVE NEUROECTODERMAL	947	<p>9473/3 Primitive neuroectodermal tumor, NOS</p>
GANGLIONEUROBLASTOMA	949	

		<p><b><u>9490/0 Ganglioneuroma</u></b>            9490/3 Ganglioneuroblastoma  <b><u>9492/0 Gangliocytoma</u></b></p>
NEUROBLASTOMA, NOS	950	<p>9500/3 Neuroblastoma, NOS            9501/3 Medulloepithelioma, NOS            9502/3 Teratoid medulloepithelioma            9503/3 Neuroepithelioma, NOS  <b><u>9505/1 Ganglioglioma, NOS</u></b>            9505/3 Ganglioglioma, anaplastic            9508/3 Atypical teratoid/rhabdoid tumor</p>
MENINGIOMA	953	<p><b><u>9530/0 Meningioma, NOS</u></b>  <b><u>9530/1 Meningioma, NOS</u></b>            9530/3 Meningioma, malignant  <b><u>9531/0 Meningotheliomatous meningioma</u></b>  <b><u>9532/0 Fibrous meningioma</u></b>  <b><u>9533/0 Psammomatous meningioma</u></b>  <b><u>9534/0 Angiomatous meningioma</u></b>  <b><u>9537/0 Transitional meningioma</u></b>  <b><u>9538/1 Clear cell meningioma</u></b>            9538/3 Papillary meningioma  <b><u>9539/1 Atypical meningioma</u></b>            9539/3 Meningeal sarcomatosis</p>
NEUROFIBROSARCOMA	954	<p><b><u>9540/0 Neurofibroma, NOS</u></b>  <b><u>9540/1 Neurofibromatosis, NOS</u></b>            9540/3 Malignant peripheral nerve sheath tumor</p>

		<b><u>9541/0 Melanotic neurofibroma</u></b>
PLEXIFORM NEUROFIBROMA	955	<b><u>9550/0 Plexiform neurofibroma</u></b>
NEURILEMOMA	956	<b><u>9560/0 Neurilemoma, NOS</u></b> <b><u>9560/1 Neurinomatosis</u></b> 9560/3 Neurilemoma, malignant 9561/3 Triton tumor, malignant <b><u>9562/0 Neurothekeoma</u></b>
NEUROMA	957	<b><u>9570/0 Neuroma, NOS</u></b> <b><u>9571/0 Perineurioma, NOS</u></b> 9571/3 Perineurioma, malignant
MALIGNANT LYMPHOMA, NOS	959	9590/3 Malignant lymphoma, NOS 9591/3 Malignant lymphoma, non-Hodgkin 9596/3 Composite Hodgkin and non-Hodgkin lymphoma
ML, SMALL B-CELL LYMPHOCYTIC	967	9670/3 ML, small B lymphocytic, NOS 9671/3 ML, lymphoplasmacytic 9673/3 Mantle cell lymphoma 9675/3 ML, mixed sm. and lg. cell, diffuse
ML, LARGE B-CELL, DIFFUSE	968	9680/3 ML, large B-cell, diffuse 9684/3 ML, large B-cell, diffuse, immunoblastic, NOS

		9687/3 Burkitt lymphoma, NOS
FOLLIC. & MARGINAL LYMPH, NOS	969	9690/3 Follicular lymphoma, NOS 9691/3 Follicular lymphoma, grade 2 9695/3 Follicular lymphoma, grade 1 9698/3 Follicular lymphoma, grade 3 9699/3 Marginal zone B-cell lymphoma, NOS
T-CELL LYMPHOMAS	970	9701/3 Sezary syndrome 9702/3 Mature T-cell lymphoma, NOS 9705/3 Angioimmunoblastic T-cell lymphoma
OTHER SPEC. NON-HODGKIN LYMPHOMA	971	9714/3 Large cell lymphoma 9719/3 NK/T-cell lymphoma, nasal and nasal-type
PRECURS. CELL LYMPHOBLASTIC LYMPH.	972	9727/3 Precursor cell lymphoblastic lymphoma, NOS 9728/3 Precursor B-cell lymphoblastic lymphoma 9729/3 Precursor T-cell lymphoblastic lymphoma
PLASMA CELL TUMORS	973	9731/3 Plasmacytoma, NOS 9734/3 Plasmacytoma, extramedullary
NEOPLASMS OF HISTIOCYTES AND	975	9750/3 Malignant histiocytosis

ACCESSORY LYMPHOID  
CELLS

9754/3 Langerhans cell  
histiocytosis, disseminated  
9755/3 Histiocytic sarcoma  
9756/3 Langerhans cell sarcoma  
9757/3 Interdigitating dendritic  
cell sarcoma  
9758/3 Follicular dendritic cell  
sarcoma

LEUKEMIA

993

**9930/3 Myeloid sarcoma**

**VENTRICLE C715**

NEOPLASM

800

**8000/0 Neoplasm, benign**  
**8000/1 Neoplasm, uncertain  
whether benign or malignant**  
8000/3 Neoplasm, malignant  
**8001/0 Tumor cells, benign**  
**8001/1 Tumor cells, uncertain  
whether benign or malignant**  
8001/3 Tumor cells, malignant  
8005/3 Malignant tumor, clear cell  
type

TERATOMA

908

**9085/3 Mixed germ cell tumor**

MISCELLANEOUS TUMORS

937

9370/3 Chordoma, NOS  
9371/3 Chondroid chordoma  
9372/3 Dedifferentiated chordoma

GLIOMA

938

9380/3 Glioma, malignant  
9381/3 Gliomatosis cerebri



		9382/3 Mixed glioma
		<b><u>9383/1 Gliomatosis cerebri</u></b>
		<b><u>9384/1 Subependymal giant cell astrocytoma</u></b>
EPENDYMOMA, NOS	939	
		<b><u>9390/0 Choroid plexus papilloma, NOS</u></b>
		<b><u>9390/1 Atypical choroid plexus papilloma</u></b>
		9390/3 Choroid plexus papilloma, malignant
		9391/3 Ependymoma, NOS
		9392/3 Ependymoma, anaplastic
		9393/3 Papillary ependymoma
ASTROCYTOMA, NOS	940	
		9400/3 Astrocytoma, NOS
		9401/3 Astrocytoma, anaplastic
PROTOPLASMIC ASTROCYTOMA	941	
		9410/3 Protoplasmic astrocytoma
		9411/3 Gemistocytic astrocytoma
FIBRILLARY ASTROCYTOMA	942	
		9420/3 Fibrillary astrocytoma
		<b><u>9421/1 Pilocytic astrocytoma</u></b>
		9423/3 Polar spongioblastoma
		9424/3 Pleomorphic xanthoastrocytoma
ASTROBLASTOMA	943	
		9430/3 Astroblastoma
GLIOBLASTOMA, NOS	944	
		9440/3 Glioblastoma, NOS
		9441/3 Giant cell glioblastoma

9442/3 Gliosarcoma

**9444/1 Chordoid glioma**

OLIGODENDROGLIOMA,  
NOS 945

9450/3 Oligodendroglioma, NOS  
9451/3 Oligodendroglioma, anaplastic

PRIMITIVE  
NEUROECTODERMAL 947

9473/3 Primitive neuroectodermal  
tumor (PNET)

GANGLIONEUROBLASTOMA 949

**9490/0 Ganglioneuroma**

9490/3 Ganglioneuroblastoma

**9492/0 Gangliocytoma**

NEUROBLASTOMA, NOS 950

9500/3 Neuroblastoma, NOS  
9501/3 Medulloepithelioma, NOS  
9502/3 Teratoid medulloepithelioma  
9503/3 Neuroepithelioma, NOS

**9505/1 Ganglioglioma, NOS**

9505/3 Ganglioglioma, anaplastic

**9506/1 Central neurocytoma**

9508/3 Atypical teratoid/rhabdoid  
tumor

MENINGIOMAS 953

**9530/0 Meningioma, NOS**

**9530/1 Meningiomatosis, NOS**

9530/3 Meningioma, malignant

**9531/0 Meningotheliomatous  
meningioma**

**9532/0 Fibrous meningioma**

**9533/0 Psammomatosis  
meningioma**

**9534/0 Angiomatous**

**meningioma**

**9537/0 Transitional**

**meningioma**

**9538/1 Clear cell meningioma**

**9538/3 Papillary meningioma**

MALIGNANT LYMPHOMA, NOS	959	9590/3 Malignant lymphoma, NOS 9591/3 Malignant lymphoma, non-Hodgkin <b>9596/3 Composite Hodgkin and non-Hodgkin lymphoma</b>
ML, SMALL B-CELL LYMPHOCYTIC	967	9670/3 ML, small B lymphocytic, NOS 9671/3 ML, lymphoplasmacytic 9673/3 Mantle cell lymphoma 9675/3 ML, mixed sm. and lg. cell, diffuse
ML, LARGE B-CELL, DIFFUSE	968	9680/3 ML, large B-cell, diffuse 9684/3 ML, large B-cell, diffuse, immunoblastic, NOS 9687/3 Burkitt lymphoma, NOS
FOLLIC. & MARGINAL LYMPH, NOS	969	9690/3 Follicular lymphoma, NOS 9691/3 Follicular lymphoma, grade 2 9695/3 Follicular lymphoma, grade 1 9698/3 Follicular lymphoma, grade 3 <b>9699/3 Marginal zone B-cell lymphoma, NOS</b>
T-CELL LYMPHOMAS	970	<b>9701/3 Sezary syndrome</b> <b>9702/3 Mature T-cell lymphoma,</b>

		NOS 9705/3 Angioimmunoblastic T-cell lymphoma
OTHER SPEC. NON-HODGKIN LYMPHOMA	971	9714/3 Anaplastic large cell lymphoma, T-cell and Null cell type 9719/3 NK/T-cell lymphoma, nasal and nasal-type
PRECURS. CELL LYMPHOBLASTIC LYMPH.	972	9727/3 Precursor cell lymphoblastic lymphoma, NOS 9728/3 Precursor B-cell lymphoblastic lymphoma 9729/3 Precursor T-cell lymphoblastic lymphoma
PLASMA CELL TUMORS	973	9731/3 Plasmacytoma, NOS 9734/3 Plasmacytoma, extramedullary
NEOPLASMS OF HISTIOCYTES AND ACCESSORY LYMPHOID CELLS	975	9750/3 Malignant histiocytosis 9754/3 Langerhans cell histiocytosis, disseminated 9755/3 Histiocytic sarcoma 9756/3 Langerhans cell sarcoma 9757/3 Interdigitating dendritic cell sarcoma 9758/3 Follicular dendritic cell sarcoma

**CEREBELLUM C716**

NEOPLASM	800	<b><u>8000/0 Neoplasm, benign</u></b> <b><u>8000/1 Neoplasm, uncertain</u></b>
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		<p><b><u>whether benign or malignant</u></b>              8000/3 Neoplasm, malignant  <b><u>8001/0 Tumor cells, benign</u></b>  <b><u>8001/1 Tumor cells, uncertain whether benign or malignant</u></b>              8001/3 Tumor cells, malignant              8005/3 Malignant tumor, clear cell type</p>
SARCOMA, NOS	880	<p><b><u>8800/0 Soft tissue tumor, benign</u></b>              8800/3 Sarcoma, NOS              8805/3 Undifferentiated sarcoma              8806/3 Desmoplastic small round cell tumor</p>
FIBROMATOUS NEOPLASMS	881	<p><b><u>8810/3 Fibrosarcoma, NOS</u></b>  <b><u>8815/0 Solitary fibrous tumor</u></b></p>
LIPOMATOUS NEOPLASMS	885	<p><b><u>8850/0 Lipoma, NOS</u></b></p>
GERM CELL NEOPLASMS	908	<p><b><u>9080/0 Teratoma, benign</u></b>  <b><u>9080/1 Teratoma, NOS</u></b>              9080/3 Teratoma, malignant, NOS  <b><u>9084/0 Dermoid cyst, NOS</u></b></p>
BLOOD VESSEL TUMORS	912	<p><b><u>9120/0 Hemangioma, NOS</u></b></p>
HEMANGIOENDOTHELIOMA	913	<p><b><u>9131/0 Capillary hemangioma</u></b></p>

HEMANGIOPERICYTOMA	915	<b><u>9150/1 Hemangiopericytoma, NOS</u></b>
HEMANGIOBLASTOMA	916	<b><u>9161/1 Hemangioblastoma</u></b>
CHORDOMA	937	9370/3 Chordoma, NOS 9371/3 Chondroid chordoma 9372/3 Dedifferentiated chordoma
GLIOMA	938	9380/3 Glioma, malignant 9381/3 Gliomatosis cerebri 9382/3 Mixed glioma <b><u>9383/1 Subependymoma</u></b>
EPENDYMOMA, NOS	939	9391/3 Ependymoma, NOS 9392/3 Ependymoma, anaplastic 9393/3 Papillary ependymoma
ASTROCYTOMA, NOS	940	9400/3 Astrocytoma, NOS 9401/3 Astrocytoma, anaplastic
PROTOPLASMIC ASTROCYTOMA	941	9410/3 Protoplasmic astrocytoma 9411/3 Gemistocytic astrocytoma
FIBRILLARY ASTROCYTOMA	942	9420/3 Fibrillary astrocytoma

		<b><u>9421/1 Pilocytic astrocytoma</u></b>
		9424/3 Pleomorphic xanthoastrocytoma
ASTROBLASTOMA	943	9430/3 Astroblastoma
GLIOBLASTOMA, NOS	944	9440/3 Glioblastoma, NOS 9441/3 Giant cell glioblastoma <b>9442/3 Gliosarcoma</b>
OLIGODENDROGLIOMA, NOS	945	9450/3 Oligodendroglioma, NOS 9451/3 Oligodendroglioma, anaplastic
MEDULLOBLASTOMA, NOS	947	9470/3 Medulloblastoma, NOS 9471/3 Desmoplastic medulloblastoma 9472/3 Medullomyoblastoma 9473/3 Primitive neuroectodermal tumor <b>9474/3 Large cell medulloblastoma</b>
CEREBELLAR SARCOMA, NOS	948	9480/3 Cerebellar sarcoma, NOS
GANGLIONEUROBLASTOMA	949	<b><u>9490/0 Ganglioneuroma</u></b> 9490/3 Ganglioneuroblastoma <b><u>9492/0 Gangliocytoma</u></b> <b><u>9493/0 Dysplastic gangliocytoma of cerebellum (Lhermitte-Duclos)</u></b>
NEUROBLASTOMA, NOS	950	9500/3 Neuroblastoma, NOS

9501/3 Medulloepithelioma, NOS  
9502/3 Teratoid medulloepithelioma  
9503/3 Neuroepithelioma, NOS  
**9505/1 Ganglioglioma, NOS**  
**9506/1 Central neurocytoma**  
9508/3 Atypical teratoid/rhabdoid tumor

MENINGIOMAS

953

**9530/0 Meningioma, NOS**  
**9530/1 Meningiomatosis, NOS**  
9530/3 Meningioma, malignant  
**9531/0 Meningotheliomatous meningioma**  
**9532/0 Fibrous meningioma**  
**9533/0 Psammomatous meningioma**  
**9534/0 Angiomatous meningioma**  
**9537/0 Transitional meningioma**  
**9538/1 Clear cell meningioma**  
9538/3 Papillary meningioma

MALIGNANT LYMPHOMA,  
NOS

959

9590/3 Malignant lymphoma, NOS  
9591/3 Malignant lymphoma, non-Hodgkin  
9596/3 Composite Hodgkin and non-Hodgkin lymphoma

ML, SMALL B-CELL  
LYMPHOCYTIC

967

9670/3 ML, small B lymphocytic, NOS  
9671/3 ML, lymphoplasmacytic  
9673/3 Mantle cell lymphoma  
9675/3 ML, mixed sm. and lg. cell, diffuse



ML, LARGE B-CELL, DIFFUSE	968	<p>9680/3 ML, large B-cell, diffuse</p> <p>9684/3 ML, large B-cell, diffuse, immunoblastic, NOS</p> <p style="padding-left: 40px;">9687/3 Burkitt lymphoma, NOS</p>
FOLLIC. & MARGINAL LYMPH, NOS	969	<p style="padding-left: 40px;">9690/3 Follicular lymphoma, NOS</p> <p>9691/3 Follicular lymphoma, grade 2</p> <p>9695/3 Follicular lymphoma, grade 1</p> <p style="padding-left: 40px;">9698/3 Follicular lymphoma, grade 3</p> <p style="padding-left: 40px; color: red;">9699/3 Marginal zone B-cell lymphoma, NOS</p>
T-CELL LYMPHOMAS	970	<p style="padding-left: 40px; color: red;">9701/3 Sezary syndrome</p> <p style="padding-left: 40px; color: red;">9702/3 Peripheral T-cell lymphoma, NOS</p> <p style="padding-left: 40px; color: red;">9705/3 Angioimmunoblastic T-cell lymphoma</p>
OTHER SPEC. NON- HODGKIN LYMPHOMA	971	<p style="padding-left: 40px; color: red;">9714/3 Anaplastic large cell lymphoma, T-cell and Null cell type</p> <p style="padding-left: 40px; color: red;">9719/3 NK/T-cell lymphoma, nasal and nasal-type</p>
PRECURS. CELL LYMPHOBLASTIC LYMPH.	972	<p style="padding-left: 40px; color: red;">9727/3 Precursor cell lymphoblastic lymphoma, NOS</p> <p style="padding-left: 40px; color: red;">9728/3 Precursor B-cell lymphoblastic lymphoma</p> <p style="padding-left: 40px; color: red;">9729/3 Precursor T-cell lymphoblastic lymphoma</p>
PLASMA CELL TUMORS	973	<p style="padding-left: 40px; color: red;">9731/3 Plasmacytoma, NOS</p>

9734/3 Plasmacytoma,  
extramedullary

NEOPLASMS OF  
HISTIOCYTES AND  
ACCESSORY LYMPHOID  
CELLS

975

9750/3 Malignant histiocytosis  
9754/3 Langerhans cell  
histiocytosis, disseminated  
9755/3 Histiocytic sarcoma  
9756/3 Langerhans cell sarcoma  
9757/3 Interdigitating dendritic  
cell sarcoma  
9758/3 Follicular dendritic cell  
sarcoma

**OTHER NERVOUS SYSTEM C728-C729**

NEOPLASM

800

**8000/0 Neoplasm, benign**  
**8000/1 Neoplasm, uncertain  
whether benign or malignant**  
8000/3 Neoplasm, malignant  
**8001/0 Tumor cells, benign**  
**8001/1 Tumor cells, uncertain  
whether benign or malignant**  
8001/3 Tumor cells, malignant  
8002/3 Malignant tumor, small cell  
type  
8003/3 Malignant tumor, giant cell  
type  
8004/3 Malignant tumor, spindle cell  
type  
8005/3 Malignant tumor, clear cell  
type

SARCOMA, NOS

880

**8800/0 Soft tissue tumor,  
benign**  
8800/3 Sarcoma, NOS  
8801/3 Spindle cell sarcoma

		8802/3 Giant cell sarcoma
		8803/3 Small cell sarcoma
		8804/3 Epithelioid sarcoma
		8805/3 Undifferentiated sarcoma
		8806/3 Desmoplastic small round cell tumor
LIPOMATOUS NEOPLASMS	885	<b><u>8850/0 Lipoma, NOS</u></b> <b><u>8850/1 Atypical lipoma</u></b> <b>8850/3 Liposarcoma, NOS</b>
ANGIOLIPOMA	886	<b>8861/0 Angiolipoma</b>
MYOMATOUS NEOPLASMS	889	<b><u>8890/0 Leiomyoma, NOS</u></b> <b><u>8890/1 Leiomyomatosis, NOS</u></b> <b>8890/3 Leiomyosarcoma, NOS</b> <b><u>8897/1 Smooth muscle tumor, NOS</u></b>
RHABDOMYOSARCOMA	890	<b><u>8900/0 Rhabdomyoma, NOS</u></b> <b>8900/3 Rhabdomyosarcoma, NOS</b>
EMBRYONAL RHABDOMYOSARCOMA	891	<b>8910/3 Embryonal rhabdomyosarcoma, NOS</b>
ALVEOLAR RHABDOMYOSARCOMA	892	<b>8920/3 Alveolar rhabdomyosarcoma</b>
GERM CELL TUMORS	906	<b>9064/3 Germinoma</b>

TERATOMA	908	<u>9080/1 Teratoma, NOS</u> 9080/3 Teratoma, malignant, NOS 9082/3 Malignant teratoma, undiff. <u>9084/0 Dermoid cyst, NOS</u> 9084/3 Teratoma with malign. transformation
BLOOD VESSEL TUMORS	912	<u>9120/0 Hemangioma, NOS</u> 9120/3 Hemangiosarcoma <u>9121/0 Cavernous hemangioma</u>
HEMANGIOENDOTHELIOMA	913	<u>9130/0 Hemangioendothelioma, benign</u> <u>9130/1 Hemangioendothelioma, NOS</u> 9130/3 Hemangioendothelioma, malignant
KAPOSI SARCOMA	914	9140/3 Kaposi sarcoma
HEMANGIOPERICYTOMA	915	<u>9150/0 Hemangiopericytoma, benign</u> <u>9150/1 Hemangiopericytoma, NOS</u> 9150/3 Hemangiopericytoma, malignant

HEMANGIOBLASTOMA	916	<b><u>9161/1 Hemangioblastoma</u></b>
MISCELLANEOUS BONE TUMORS	926	<b>9260/3 Ewing sarcoma</b>
CHORDOMA	937	9370/3 Chordoma, NOS 9371/3 Chondroid chordoma 9372/3 Dedifferentiated chordoma
NEUROBLASTOMA, NOS	950	9500/3 Neuroblastoma, NOS 9501/3 Medulloepithelioma, NOS 9502/3 Teratoid medulloepithelioma 9503/3 Neuroepithelioma, NOS 9508/3 Atypical teratoid/rhabdoid tumor
MENINGIOMA	953	<b><u>9530/0 Meningioma, NOS</u></b> <b><u>9530/1 Meningiomatosis, NOS</u></b> <b><u>9530/3 Meningioma, malignant</u></b> <b><u>9531/0 Meningotheliomatous meningioma</u></b> <b><u>9532/0 Fibrous meningioma</u></b> <b><u>9533/0 Psammomatous meningioma</u></b> <b><u>9534/0 Angiomatous meningioma</u></b> <b><u>9537/0 Transitional meningioma</u></b> <b><u>9538/1 Clear cell meningioma</u></b> <b>9538/3 Papillary meningioma</b>
NEUROFIBROSARCOMA	954	

		<b><u>9540/0 Neurofibroma, NOS</u></b>
		<b><u>9540/1 Neurofibromatosis, NOS</u></b>
		9540/3 Malignant peripheral nerve sheath tumor
		<b><u>9541/0 Melanotic neurofibroma</u></b>
PLEXIFORM NEUROFIBROMA	955	<b><u>9550/0 Plexiform neurofibroma</u></b>
NEURILEMOMA	956	<b><u>9560/0 Neurilemmoma, NOS</u></b> 9560/3 Neurilemmoma, malignant 9561/3 Triton tumor, malignant <b><u>9562/0 Neurothekeoma</u></b>
NEUROMA	957	<b><u>9570/0 Neuroma, NOS</u></b> <b><u>9571/0 Perineurioma, NOS</u></b> 9571/3 Perineurioma, malignant
MALIGNANT LYMPHOMA, NOS	959	9590/3 Malignant lymphoma, NOS 9591/3 Malignant lymphoma, non-Hodgkin 9596/3 Composite Hodgkin and non-Hodgkin lymphoma
HODGKIN LYMPHOMA	965	9650/3 Hodgkin lymphoma, NOS 9651/3 Hodgkin lymphoma, lymphocyte-rich 9652/3 Hodgkin lymphoma, mixed cellularity, NOS 9653/3 Hodgkin lymphoma, lymphocytic deplet., NOS 9654/3 Hodgkin lymphoma,

		lymphocyt. deplet., diffuse fibrosis
		9655/3 Hodgkin lymphoma, lymphocyt. deplet., reticular
		9659/3 Hodgkin lymphoma, nodular lymphocyte predom.
HODGKIN LYMPHOMA, NOD. SCLER.	966	
		9661/3 Hodgkin granuloma
		9662/3 Hodgkin sarcoma
		9663/3 Hodgkin lymphoma, nodular sclerosis, NOS
		9664/3 Hodgkin lymphoma, nod. scler., cellular phase
		9665/3 Hodgkin lymphoma, nod. scler., grade 1
		9667/3 Hodgkin lymphoma, nod. scler., grade 2
ML, SMALL B-CELL LYMPHOCYTIC	967	
		9670/3 ML, small B lymphocytic, NOS
		9671/3 ML, lymphoplasmacytic
		9673/3 Mantle cell lymphoma
		9675/3 ML, mixed sm. and lg. cell, diffuse
ML, LARGE B-CELL, DIFFUSE	968	
		9680/3 ML, large B-cell, diffuse
		9684/3 ML, large B-cell, diffuse, immunoblastic, NOS
		9687/3 Burkitt lymphoma, NOS
FOLLIC. & MARGINAL LYMPH, NOS	969	
		9690/3 Follicular lymphoma, NOS
		9691/3 Follicular lymphoma, grade 2
		9695/3 Follicular lymphoma, grade 1
		9698/3 Follicular lymphoma, grade 3
		9699/3 Marginal zone B-cell

		lymphoma, NOS
T-CELL LYMPHOMAS	970	9701/3 Sezary syndrome 9702/3 Mature T-cell lymphoma, NOS 9705/3 Angioimmunoblastic T-cell lymphoma
OTHER SPEC. NON-HODGKIN LYMPHOMA	971	9714/3 Anaplastic large cell lymphoma, T-cell and Null cell type 9719/3 NK/T-cell lymphoma, nasal and nasal-type
PRECURS. CELL LYMPHOBLASTIC LYMPH.	972	9727/3 Precursor cell lymphoblastic lymphoma, NOS 9728/3 Precursor B-cell lymphoblastic lymphoma 9729/3 Precursor T-cell lymphoblastic lymphoma
PLASMA CELL TUMORS	973	9731/3 Plasmacytoma, NOS 9734/3 Plasmacytoma, extramedullary
MAST CELL TUMORS	974	9740/3 Mast cell sarcoma 9741/3 Malignant mastocytosis
NEOPLASMS OF HISTIOCYTES AND ACCESSORY LYMPHOID CELLS	975	9750/3 Malignant histiocytosis 9754/3 Langerhans cell histiocytosis, disseminated 9755/3 Histiocytic sarcoma 9756/3 Langerhans cell sarcoma



9757/3 Interdigitating dendritic cell sarcoma

9758/3 Follicular dendritic cell sarcoma

LYMPHOID LEUKEMIAS 982

**9827/3 Adult T-cell leukemia/lymphoma (HTLV-1 positive)**

MYELOID LEUKEMIAS 986

**9861/3 Acute myeloid leukemia, NOS**

OTHER LEUKEMIAS 993

**9930/3 Myeloid sarcoma**

**PITUITARY GLAND and CRANIOPHARYNGEAL DUCT C751-C752**

NEOPLASM 800

**8000/0 Neoplasm, benign**

**8000/1 Neoplasm, uncertain whether benign or malignant**

8000/3 Neoplasm, malignant

**8001/0 Tumor cells, benign**

**8001/1 Tumor cells, uncertain whether benign or malignant**

8001/3 Tumor cells, malignant

**8005/0 Clear cell tumor, NOS**

8005/3 Malignant tumor, clear cell type

CARCINOMA, NOS 801

**8010/0 Epithelial tumor, benign**

8010/2 Carcinoma in situ, NOS

8010/3 Carcinoma, NOS

ADENOCARCINOMA, NOS 814

**8140/0 Adenoma, NOS**

		8140/2 Adenocarcinoma in situ
		8140/3 Adenocarcinoma, NOS
		<b><u>8146/0 Monomorphic adenoma</u></b>
PAPILLARY ADENOMA, NOS	826	<b><u>8260/0 Papillary adenoma, NOS</u></b>
CHROMOPHOBE CARCINOMA	827	<b><u>8270/0 Chromophobe adenoma</u></b>
		8270/3 Chromophobe carcinoma
		<b><u>8271/0 Prolactinoma</u></b>
		<b><u>8272/0 Pituitary adenoma, NOS</u></b>
		8272/3 Pituitary carcinoma, NOS
ACIDOPHIL CARCINOMA	828	<b><u>8280/0 Acidophil adenoma</u></b>
		8280/3 Acidophil carcinoma
		<b><u>8281/0 Mixed acidophil-basophil adenoma</u></b>
		8281/3 Mixed acidophil-basophil carcinoma
OXYPHILIC ADENOCARCINOMA	829	<b><u>8290/0 Oxyphilic adenoma</u></b>
		8290/3 Oxyphilic adenocarcinoma
BASOPHIL CARCINOMA	830	<b><u>8300/0 Basophil adenoma</u></b>
		8300/3 Basophil carcinoma
CLEAR CELL ADENOCARC., NOS	831	<b><u>8310/0 Clear cell adenoma</u></b>
GRANULAR CELL CARCINOMA	832	8320/3 Granular cell carcinoma
		<b><u>8323/0 Mixed cell adenoma</u></b>

8323/3 Mixed cell adenocarcinoma

SOFT TISSUE TUMORS 880

**8800/0 Soft tissue tumor, benign**

**8800/3 Sarcoma, NOS**

LIPOMATOUS  
NEOPLASMS 885

**8850/0 Lipoma, NOS**

DYSGERMINOMA 906

9060/3 Dysgerminoma

9064/3 Germinoma

9065/3 Germ cell tumor,  
nonseminomatous

EMBRYONAL  
CARCINOMA, NOS 907

9070/3 Embryonal carcinoma, NOS

9071/3 Yolk sac tumor

9072/3 Polyembryoma

TERATOMA, NOS 908

**9080/0 Teratoma, benign**

**9080/1 Teratoma, NOS**

9080/3 Teratoma, malignant, NOS

9081/3 Teratocarcinoma

9082/3 Malignant teratoma, undiff.

9083/3 Malignant teratoma, intermediate

9084/3 Teratoma with malig.  
transformation

9085/3 Mixed germ cell tumor

CRANIOPHARYNGIOMA 935

**9350/1 Craniopharyngioma**

**9351/1 Adamantinomatous  
craniopharyngioma**

**9352/1 Papillary  
craniopharyngioma**

CHORDOMA	937	9370/3 Chordoma  9371/3 Chondroid chordoma 9372/3 Dedifferentiated chordoma
NEUROBLASTOMA, NOS	950	9500/3 Neuroblastoma, NOS 9501/3 Medulloepithelioma, NOS 9502/3 Teratoid medulloepithelioma 9503/3 Neuroepithelioma, NOS 9505/3 Ganglioglioma, anaplastic
GRANULAR CELL TUMORS	958	<b><u>9580/0 Granular cell tumor, NOS</u></b>
FOLLIC. & MARGINAL LYMPH, NOS	969	9699/3 Marginal zone B-cell lymphoma, NOS
<b><u>PINEAL GLAND C753</u></b>		
NEOPLASM	800	<b><u>8000/0 Neoplasm, benign</u></b> <b><u>8000/1 Neoplasm, uncertain whether benign or malignant</u></b> 8000/3 Neoplasm, malignant <b><u>8001/0 Tumor cells, benign</u></b> <b><u>8001/1 Tumor cells, uncertain whether benign or malignant</u></b> 8001/3 Tumor cells, malignant
CARCINOMA, NOS	801	<b><u>8010/0 Epithelial tumor, benign</u></b>
DYSGERMINOMA	906	9060/3 Dysgerminoma

		9064/3 Germinoma 9065/3 Germ cell tumor, nonseminomatous
EMBRYONAL CARCINOMA, NOS	907	9070/3 Embryonal carcinoma, NOS 9071/3 Yolk sac tumor 9072/3 Polyembryoma
TERATOMA, NOS	908	<b><u>9080/0 Teratoma, NOS</u></b> 9080/3 Teratoma, malignant, NOS 9081/3 Teratocarcinoma 9082/3 Malignant teratoma, undiff. 9083/3 Malignant teratoma, intermediate <b><u>9084/0 Dermoid cyst, NOS</u></b> 9084/3 Teratoma with malig. transformation 9085/3 Mixed germ cell tumor
PINEALOMA, MALIGNANT	936	<b><u>9360/1 Pinealoma, NOS</u></b> <b><u>9361/1 Pineocytoma</u></b> 9362/3 Pineoblastoma
CHORDOMA	937	9370/3 Chordoma, NOS 9371/3 Chondroid chordoma 9372/3 Dedifferentiated chordoma
PRIMITIVE NEUROECTODERMAL	947	<b>9473/3 Primitive neuroectodermal tumor, NOS</b>
GANGLIONEUROBLASTOMA	949	9490/3 Ganglioneuroblastoma

**9492/0 Gangliocytoma**

NEUROBLASTOMA, NOS 950

9500/3 Neuroblastoma, NOS  
9501/3 Medulloepithelioma, NOS  
9502/3 Teratoid medulloepithelioma  
9503/3 Neuroepithelioma, NOS

**9505/1 Ganglioglioma, NOS**

9505/3 Ganglioglioma, anaplastic

ML, LARGE B-CELL,  
DIFFUSE 968

**9680/3 ML, large B-cell, diffuse**

FOLLIC. & MARGINAL  
LYMPH, NOS 969

9699/3 Marginal zone B-cell  
lymphoma, NOS

## Appendix W: Race and Nationality Descriptions

### Appendix W

Appendix W consists of the Race and Nationality Descriptions from the 2000 Census and Bureau of Vital Statistics. This listing is an appendix to the 2004 SEER Race Coding Guidelines.

**As a reminder, the CCR has added a new code, code 90 for Other South Asian. Please note that code 90 is not included in Appendix W because it is a code added by the CCR.** Please refer Volume I, Section III.2.9 Race and Ethnicity for more detailed race coding information.

Races to be coded as 90 include:

- Bangladeshi
- Bhutanese
- Nepalese
- Sikkimese
- Sri Lankan

**Do not use code 96 as Appendix W indicates for the races listed above.**

**Appendix W.1**

**RACE AND NATIONALITY DESCRIPTIONS FROM THE 2000 CENSUS AND BUREAU OF VITAL STATISTICS**

**Note: Use these lists only when race is not stated but other information is provided in the medical record.**

See **ALPHABETIC INDEX**

**References:**

1. *Race and Ethnicity Code Set, Version 1.0, Centers for Disease Control and Prevention, March 2000.*
2. *Instruction manual, part 4: Classification And Coding Instructions For Death Records, 1999-2001, Division of Vital Statistics, National Center for Health Statistics, undated*

**Key**

*Use this code unless patient is stated to be Native American (Indian) or other race*

*\* Terms listed in reference 2, above.*

*! Description of religious affiliation rather than stated nationality or ethnicity; should be used with caution when determining appropriate race code.*

**CODE 01 WHITE**

Afghan, Afghanistani  
Afrikaner  
Albanian  
Algerian\*  
Amish\*  
Anglo-Saxon\*  
Arab, Arabian  
Argentinian\*  
Armenian  
Assyrian  
Australian\*  
Austrian\*  
Azores\*  
Basque\*  
Bavarian\*  
Bolivian\*  
Bozniak/Bosnian  
Brava/Bravo\*  
Brazilian  
Bulgarian  
Cajun  
Californio



Canadian\*  
Caucasian\*  
Central American  
Chechnyan  
Chicano\*  
Chilean  
Colombian\*  
Costa Rican\*  
Croat/Croatian  
Crucian\*  
Cuban (*unless specified as Black*)\*  
Cypriot  
Czechoslovakian\*  
Eastern European  
Ebian\*  
Ecuadorian\*  
Egyptian  
English  
English-French\*  
English-Irish\*  
European\*  
Finnish\*  
French  
French Canadian\*  
Georgian\*  
German  
Greek\*  
Guatemalan  
Gypsy\*  
Hebrew\*!  
Herzegovenian  
Hispanic\*  
Honduran  
Hungarian\*  
Iranian, Iran  
Iraqi  
Irish  
Islamic\*!  
Israeli  
Italian  
Jordanian\*  
Kurd/Kurdish  
Kuwaitian\*  
Ladina/Ladino\*  
Latin American\*  
Latino  
Latvian\*  
Lebanese

Libyan\*  
Lithuanian\*  
Maltese\*  
Marshenese\*  
Mauritian\*  
Moroccan\*  
Mediterranean\*  
Mexican  
Middle Eastern  
Moroccan\*  
Moslem\*!  
Muslim\*  
Near Easterner  
Nicaraguan  
Nordic\*  
North African  
Norwegian\*  
Other Arab  
Palestinian  
Panamanian  
Paraguayan  
Parsi\*  
Persian\*  
Peruvian\*  
Polish  
Portuguese\*  
Puerto Rican (*unless specified as Black*)  
Romanian\*  
Rumanian  
Russian\*  
Salvadoran  
Saudi Arabian\*  
Scandanavian\*  
Scottish, Scotch  
Semitic\*!  
Serbian\*  
Servian\*  
Shiite!  
Sicilian\*  
Slavic, Slovakian\*  
South American  
Spanish\*, Spaniard  
Sunni\*!  
Swedish\*  
Syrian  
Tunisian\*  
Turkish, Turk\*  
Ukranian\*

United Arab Emirati  
Uruguayan  
Venezuelan\*  
Welsh\*  
White  
Yemenite\*  
Yugoslavian\*  
Zoroastrian\*

**CODE 02 BLACK OR AFRICAN AMERICAN**

African  
African American  
Afro-American  
Bahamian  
Barbadian  
Bilalian\*  
Black  
Botswana  
Cape Verdean\*  
Dominica Islander (*unless specified as White*)  
Dominican/Dominican Republic (*unless specified as White*)  
Eritrean\*  
Ethiopian  
Ghanian\*  
Haitian  
Hamitic\*  
Jamaican  
Kenyan\*  
Liberian  
Malawian\*  
Mugandan\*  
Namibian  
Nassau\*  
Negro  
Nigerian  
Nigritian  
Nubian\*  
Other African  
Santo Domingo\*  
Seychelloise\*  
Sudanese\*  
Tanzanian\*  
Tobagoan  
Togolese\*  
Trinidadian  
West Indian  
Zairean

**CODE 03 AMERICAN INDIAN AND ALASKA NATIVE**

*(see separate list of tribes)*

Alaska Native

Aleut

American Indian

Central American Indian

Eskimo

Meso American Indian

Mexican American Indian

Native American

South American Indian

Spanish American Indian

**ASIAN RACE CODES**

Code    Definition

96        Amerasian

09        Asian Indian

96        Asian

96        Asiatic

96        Bangladeshi

96        Bhutanese

96        Bornean

96        Bruneian

96        Burmese

13        Cambodian

96        Celebesian

96        Ceram

96        Ceylonese

04        Chinese

96        Eurasian

06        Filipino

12        Hmong

09        Indian (*from India*)

96        Indo-Chinese

96        Indonesian

05        Iwo Jiman

05        Japanese

96        Javanese

13        Kampuchean

08        Korean

11        Laotian

96        Maldivian

96        Madagascar

96        Malaysian

96        Mongolian

96        Montagnard

96	Nepalese
05	Okinawan
96	Oriental
96	Other Asian
09	Pakistani
96	Sikkimese
96	Singaporean
96	Sri Lankan
96	Sumatran
04	Taiwanese
14	Thai
96	Tibetan
10	Vietnamese
96	Whello
96	Yello

**NATIVE HAWAIIAN AND OTHER PACIFIC ISLANDER CODES**

<u>Code</u>	<u>Definition</u>
20	Bikinian
20	Carolinian
21	Chamorro
20	Chuukese
25	Cook Islander
20	Eniwetok, Enewetak
31	Fijian
22	Guamanian
07	Hawaiian
20	Kirabati
20	Kosraean
20	Kwajalein
97	Maori
20	Mariana Islander
20	Marshallese
30	Melanesian
20	Micronesian, NOS
07	Native Hawaiian
97	Nauruan
30	New Caledonian
30	New Hebrides
97	Other Pacific Islander
97	Pacific Islander
20	Palauan
32	Papua New Guinean
07	Part Hawaiian
20	Pohnpeian
25	Polynesian
20	Ponapean
20	Saipanese

27	Samoaan
30	Solomon Islander
26	Tahitian
20	Tarawan
20	Tinian
25	Tokelauan
28	Tongan
20	Trukese
25	Tuvaluan
30	Vanuatuan
20	Yapese

**98 OTHER RACE, NOT ELSEWHERE CLASSIFIED**

*Do not use this code for Hispanic, Latino or Spanish, NOS.*

**OTHER RACE DESCRIPTIONS**

**Note 1: The following descriptions of ethnic origin cannot be coded to a specific race code. Look for other descriptions of race in the medical record. If no further information is available, code as 99 Unknown.**

Aruba Islander  
Azerbaijani  
Belizean  
Bermudan  
Cayenne  
Cayman Islander  
Creole  
Guyanese  
Indian (*not specified as Native American, Eastern Indian, Northern, Central, or South American Indian*)  
Mestizo  
Morena  
South African  
Surinam  
Tejano

**Note 2: The following terms self-reported in the 2000 Census cannot be coded to a specific race code. Look for other descriptions of race in the medical record. If no further information is available, code as 99 Unknown.**

Biracial  
Interracial  
Mixed  
Multiethnic

Multinational  
Multiracial

**Indian Tribes of the United States, Canada and Mexico (Race Code 03)**

Source: National Center for Health Statistics: *Appendix C, Instruction Manual, part 4: Classification and Coding Instructions For Death Records, 1999-2001.*

Abnaki  
Absentee-Shawnee  
Acoma  
Ak Chin  
Alabama-Coushatt Tribes of Texas  
Alsea  
Apache  
Arapaho  
Arikara  
Assiniboin  
Atacapa  
Athapaskan  
Atsina  
Aztec  
Bear River  
Beaver  
Bella Coola  
Beothuk  
Blackfoot  
Boold Piegan  
Blue Lake  
Brotherton  
Caddo  
Cakchiquel-Ienca  
Calapooya  
Carrier  
Catawba  
Cattaraugus  
Cayuga  
Cayuse  
Chasta Costa  
Chehalis  
Chemehuevi  
Cherokee  
Chetco  
Cheyenne  
Cheyenne River Sioux  
Chickahominy

Chickasaw  
Chinook  
Chipewyan  
Chippewa  
Chippewa-Ojibwa  
Chiricahua Apache  
Chitimacha  
Choctaw  
Chol  
Chontal  
Chorti  
Chuckchansi  
Chumash  
Clallam  
Clatsop  
Clackamus  
Clear Lake  
Coast Salish  
Cochimi  
Cochiti  
Cocopa  
Coeur D'Alene Tribe of Idaho  
Cocopah  
Columbia  
Colville  
Comox  
Comanche  
Concow  
Conquille  
Coushatta  
Covelo  
Cow Creek  
Cowichan  
Cowlitz  
Coyotero Apache  
Cree  
Creek  
Crow  
Crow Creek Sioux  
Dakota  
Delaware  
Diegueno  
Digger  
Dog Rib  
Duckwater  
Eskimo  
Euchi  
Eyak



Flathead  
Fort Hall Res. Tribe of Idaho  
French Indian  
Gabrieleno  
Galice Creek  
Gay Head  
Gosiute  
Gros Ventre  
Haida  
Han  
Hare  
Hat Creek  
Hawasupai  
Hidatsa  
Hoh  
Hoopa  
Hopi  
Houma  
Hualapai  
Huastec  
Humboldt Bay  
Hupa  
Huron  
Illinois  
Ingalik  
Iowa  
Iroquois  
Isleta  
Jemez  
Joshua  
Juaneno  
Jicarilla Apache  
Kaibah  
Kalispel  
Kanosh Band of Paiutes  
Kansa  
Karankawa  
Karak  
Kaska  
Kaw  
Kawai  
Keresan Pueblos  
Kern River  
Kichai  
Kickapoo  
Kiowa  
Kiowa Apache  
Kitamat

Klamath  
Klikitat  
Koasati  
Kootenai Tribe of Idaho  
Kusa  
Kutchin  
Kutenai  
Kwakiutl  
Lac Courte Dreille  
Laguna  
Lakmuit  
Lipan Apache  
Lower Brule Sioux  
Luiseno  
Lummi  
Maidu  
Makah  
Malecite  
Mandan  
Maricopa  
Mary's River  
Mashpee  
Mattaponi  
Maya  
Mayo  
Mdewakanton Sioux  
Menominee  
Menomini  
Mequendodon  
Mescalero Apache  
Miami  
Micmac  
Mission Indians  
Missouri  
Miwok  
Mixe  
Mixtec  
Modoc  
Mohave  
Mohawk  
Mohegan  
Molala  
Monachi  
Mono  
Montagnais  
Montauk  
Muckleshoot  
Munsee

Nambe  
Namsemond  
Nanticoke  
Narragansett  
Naskapi  
Natchez  
Navaho  
Navajo  
Nez Perce  
Niantic  
Nipmuck  
Nisenan-Patwin  
Nisqually  
Nomelaki  
Nooksak  
Nootka  
Northern Paiute  
Oglala Sioux  
Okanogan  
Omaha  
Oneida  
Onondaga  
Opata  
Opato  
Osage  
Oto  
Otoe  
Otomi  
Ottawa  
Ozette  
Paiute  
Pamunkey  
Panamint  
Papago  
Passamaquoddy  
Patwin  
Pawnee  
Pen d'Oreille  
Penobscot  
Peoria  
Pequot  
Picuris  
Pima  
Pit River  
Pojoaque  
Pomo  
Ponca  
Poosepatuck

Potawatomi  
Potomac  
Powhatan  
Pueblos  
Puyallup  
Quapaw  
Quechan  
Quileute  
Quinaietl  
Quinault  
Rappahannock  
Rogue River  
Rosebud Sioux  
Sac and Fox  
Saginaw  
Salish  
Sandia  
San Felipe  
San Ildefonso  
San Juan  
San Lorenzo  
San Luis Obispo  
San Luiseno  
Sanpoil  
Sanpoil Nespelem  
Sant'ana  
Santa Barbara  
Santa Clara  
Santa Ynez  
Santee  
Santee Sioux  
Santiam  
Sauk and Fox  
Scaticook  
Sekane  
Seminole  
Seneca  
Seri  
Shasta  
Shawnee  
Shinnecock  
Shiwits Band of Paiutes  
Shoshone  
Shoshone-Bannock  
Shuswap  
Siouans  
Sioux  
Sisseton

Sisseton-Wahpeton Sioux  
Siuslaw  
Skagit Suiattle  
Skokomish  
Slave  
Smith River  
Snake  
Snohomish  
Snoqualmi  
Songish Southern Paiute  
Squaxin  
Stockbridge  
Sumo-Mosquito  
Suquamish  
Swinomish  
Taimskin  
Tanana  
Tanoan Pueblos  
Taos  
Tarahumare  
Tarascan  
Tawakoni  
Tejon  
Tenino or Warm Springs  
Tesuque  
Teton  
Teton Sioux  
Tillamook  
Timucua  
Thlinget  
Tolowa  
Tonawanda  
Tonkawa  
Tonto Apache  
Topinish  
Totonac  
Tsimshian  
Tulalip  
Tule River Indians  
Tunica  
Tuscarora  
Tututni  
Umatilla  
Umpqua  
Upper Chinook  
Ute  
Waca  
Waicuri-Pericue

Wailaki  
Walapai  
Walla Walla  
Wampanoag  
Wapato  
Warm Springs  
Wasco  
Washo  
Washoe  
Western Apache  
Western Shoshone  
Whilkut  
Wichita  
Wikchamni  
Wind River Shoshone  
Winnebago  
Wintu  
Wintun  
Wishram  
Wyandotte  
Xicaque  
Yahooskin  
Yakima  
Yamel  
Yana  
Yankton  
Yanktonnais Sioux  
Yaqui  
Yaquina  
Yavapai  
Yawilmani  
Yellow Knife  
Yerington Paiute  
Yokuts  
Yokuts-Mono  
Yomba Shoshone  
Yuchi  
Yuki  
Yuma  
Yurok  
Zacatec  
Zapotec  
Zia  
Zoque  
Zuni

**Appendix W.2**

**RACE AND NATIONALITY DESCRIPTIONS FROM THE 2000 CENSUS AND BUREAU OF VITAL STATISTICS**

**ALPHABETIC INDEX**

**Note: Use these lists only when race is not stated but other information is provided in the medical record.**

See CODE LIST

**References:**

1. "Race and Ethnicity Code Set, Version 1.0," Centers for Disease Control and Prevention, March 2000.
2. "Instruction manual, part 4: Classification And Coding Instructions For Death Records, 1999-2001," Division of Vital Statistics, National Center for Health Statistics, undated

**Key**

*Use this code unless patient is stated to be Native American (Indian) or other race*

*\* Terms listed in reference 2, above.*

*! Description of religious affiliation rather than stated nationality or ethnicity; should be used with caution when determining appropriate race code.*

**A**

- 03 Abnaki
- 03 Absentee-Shawnee
- 03 Acoma
- 01 Afghan, Afghanistani
- 02 African
- 02 African American
- 01 Afrikaner
- 02 Afro-American
- 03 Ak Chin
- 03 Alabama-Coushatt Tribes of Texas
- 03 Alaska Native
- 01 Albanian
- 03 Aleut
- 01 Algerian\*
- 03 Alsea
- 96 Amerasian
- 03 American Indian

01 Amish\*  
01 Anglo-Saxon\*  
03 Apache  
01 Arab, Arabian  
03 Arapaho  
01 Argentinian\*  
03 Arikara  
01 Armenian  
96 Asian  
09 Asian Indian  
96 Asiatic  
03 Assiniboin  
01 Assyrian  
03 Atacapa  
03 Athapaskan  
03 Atsina  
01 Australian\*  
01 Austrian\*  
01 Azores\*  
03 Aztec

**B**

02 Bahamian  
96 Bangladeshi  
02 Barbadian  
01 Basque\*  
01 Bavarian\*  
03 Bear River  
03 Beaver  
03 Bella Coola  
03 Beothuk  
96 Bhutanese  
20 Bikinian  
02 Bilalian\*  
02 Black  
03 Blackfoot  
03 Blue Lake  
01 Bolivian\*  
03 Boold Piegan  
96 Bornean  
02 Botswana  
01 Bozniak/Bosnian  
01 Brava/Bravo\*  
01 Brazilian  
03 Brotherton  
96 Bruneian  
01 Bulgarian  
96 Burmese



**C**

03	Caddo
01	Cajun
03	Cakchiquel-Ienca
03	Calapooya
01	Californio
13	Cambodian
01	Canadian*
02	Cape Verdean*
20	Carolinian
03	Carrier
03	Catawba
03	Cattaraugus
01	Caucasian*
03	Cayuga
03	Cayuse
96	Celebesian
01	Central American
03	Central American Indian
96	Ceram
96	Ceylonese
21	Chamorro
03	Chasta Costa
01	Chechnyan
03	Chehalis
03	Chemehuevi
03	Cherokee
03	Chetco
03	Cheyenne
03	Cheyenne River Sioux
01	Chicano*
03	Chickahominy
03	Chickasaw
01	Chilean
04	Chinese
03	Chinook
03	Chipewyan
03	Chippewa
03	Chippewa-Ojibwa
03	Chiricahua Apache
03	Chitimacha
03	Choctaw
03	Chol
03	Chontal
03	Chorti
03	Chuckchansi
03	Chumash

20 Chuukese  
03 Clackamus  
03 Clallam  
03 Clatsop  
03 Clear Lake  
03 Coast Salish  
03 Cochimi  
03 Cochiti  
03 Cocopa  
03 Cocopah  
03 Coeur D'Alene Tribe of Idaho  
01 Colombian\*  
03 Columbia  
03 Colville  
03 Comanche  
03 Comox  
03 Concow  
03 Conquille  
25 Cook Islander  
01 Costa Rican\*  
03 Coushatta  
03 Covelo  
03 Cow Creek  
03 Cowichan  
03 Cowlitz  
03 Coyotero Apache  
03 Cree  
03 Creek  
01 Croat/Croatian  
03 Crow  
03 Crow Creek Sioux  
01 Crucian\*  
01 Cuban (*unless specified as Black*)\*  
01 Cypriot  
01 Czechoslovakian\*

**D**

03 Dakota  
03 Delaware  
03 Diegueno  
03 Digger  
03 Dog Rib  
02 Dominica Islander (*unless specified as White*)  
02 Dominican/Dominican Republic (*unless specified as White*)  
03 Duckwater

**E**

01 Eastern European

01 Ebian\*  
 01 Ecuadorian\*  
 01 Egyptian  
 01 English  
 01 English-French\*  
 01 English-Irish\*  
 20 Eniwetok, Enewetak  
 02 Eritrean\*  
 03 Eskimo  
 02 Ethiopian  
 03 Euchi  
 96 Eurasian  
 01 European\*  
 03 Eyak

**F**

31 Fijian  
 06 Filipino  
 01 Finnish\*  
 03 Flathead  
 03 Fort Hall Res. Tribe of Idaho  
 01 French  
 01 French Canadian\*  
 03 French Indian

**G**

03 Gabrieleno  
 03 Galice Creek  
 03 Gay Head  
 01 Georgian\*  
 01 German  
 02 Ghanian\*  
 03 Gosiute  
 01 Greek\*  
 03 Gros Ventre  
 22 Guamanian  
 01 Guatemalan  
 01 Gypsy\*

**H**

03 Haida  
 02 Haitian  
 02 Hamitic\*  
 03 Han  
 03 Hare  
 03 Hat Creek  
 07 Hawaiian  
 03 Hawasupai

01 Hebrew\*!  
01 Herzegovenian  
03 Hidatsa  
01 Hispanic\*  
12 Hmong  
03 Hoh  
01 Honduran  
03 Hoopa  
03 Hopi  
03 Houma  
03 Hualapai  
03 Huastec  
03 Humboldt Bay  
01 Hungarian\*  
03 Hupa  
03 Huron

**I**

03 Illinois  
09 Indian (*from India*)  
96 Indo-Chinese  
96 Indonesian  
03 Ingalik  
03 Iowa  
01 Iranian, Iran  
01 Iraqi  
01 Irish  
03 Iroquois  
01 Islamic\*!  
03 Isleta  
01 Israeli  
01 Italian  
05 Iwo Jiman

**J**

02 Jamaican  
05 Japanese  
96 Javanese  
03 Jemez  
03 Jicarilla Apache  
01 Jordanian\*  
03 Joshua  
03 Juaneno

**K**

03 Kaibah  
03 Kalispel  
13 Kampuchean

03 Kanosh Band of Paiutes  
 03 Kansa  
 03 Karankawa  
 03 Karok  
 03 Kaska  
 03 Kaw  
 03 Kawai  
 02 Kenyan\*  
 03 Keresan Pueblos  
 03 Kern River  
 03 Kichai  
 03 Kickapoo  
 03 Kiowa  
 03 Kiowa Apache  
 20 Kirabati  
 03 Kitamat  
 03 Klamath  
 03 Klikitat  
 03 Koasati  
 03 Kootenai Tribe of Idaho  
 08 Korean  
 20 Kosraean  
 01 Kurd/Kurdish  
 03 Kusa  
 03 Kutchin  
 03 Kutenai  
 01 Kuwaitian\*  
 20 Kwajalein  
 03 Kwakiutl

**L**

03 Lac Courte Dreille  
 01 Ladina/Ladino\*  
 03 Laguna  
 03 Lakmuit  
 11 Laotian  
 01 Latin American\*  
 01 Latino/Latina  
 01 Latvian\*  
 01 Lebanese  
 02 Liberian  
 01 Libyan\*  
 03 Lipan Apache  
 01 Lithuanian\*  
 03 Lower Brule Sioux  
 03 Luiseno  
 03 Lummi

**M**

96	Madagascar
03	Maidu
03	Makah
02	Malawian*
96	Malaysian
96	Maldivian
03	Malecite
01	Maltese*
03	Mandan
97	Maori
20	Mariana Islander
03	Maricopa
20	Marshallese
01	Marshenese*
03	Mary's River
03	Mashpee
03	Mattaponi
01	Mauritian*
03	Maya
03	Mayo
03	Mdewakanton Sioux
01	Mediterranean*
30	Melanesian
03	Menominee
03	Menomini
03	Mequendodon
03	Mescalero Apache
03	Meso American Indian
01	Mexican
03	Mexican American Indian
03	Miami
03	Micmac
20	Micronesian, NOS
01	Middle Eastern
03	Mission Indians
03	Missouri
03	Miwok
03	Mixe
03	Mixtec
03	Modoc
03	Mohave
03	Mohawk
03	Mohegan
03	Molala
03	Monachi
96	Mongolian
03	Mono

03 Montagnais  
 96 Montagnard  
 03 Montauk  
 01 Moroccan\*  
 01 Moroccan\*  
 01 Moslem\*!  
 03 Muckleshoot  
 02 Mugandan\*  
 03 Munsee  
 01 Muslim\*!

**N**

03 Nambe  
 02 Namibian  
 03 Namsemond  
 03 Nanticoke  
 03 Narragansett  
 03 Naskapi  
 02 Nassau\*  
 03 Natchez  
 07 Native Hawaiian  
 97 Nauruan  
 03 Navaho  
 03 Navajo  
 01 Near Easterner  
 02 Negro  
 96 Nepalese  
 30 New Caledonian  
 30 New Hebrides  
 03 Nez Perce  
 03 Niantic  
 01 Nicaraguan  
 02 Nigerian  
 02 Nigritian  
 03 Nipmuck  
 03 Nisenan-Patwin  
 03 Nisqually  
 03 Nomelaki  
 03 Nooksak  
 03 Nootka  
 01 Nordic\*  
 01 North African  
 03 Northern Paiute  
 01 Norwegian\*  
 02 Nubian\*

**O**

03 Oglala Sioux

03 Okanogan  
05 Okinawan  
03 Omaha  
03 Oneida  
03 Onondaga  
03 Opata  
03 Opato  
96 Oriental  
03 Osage  
02 Other African  
01 Other Arab  
96 Other Asian  
97 Other Pacific Islander  
98 Other race, not elsewhere classified  
03 Oto  
03 Otoe  
03 Otomi  
03 Ottawa  
03 Ozette

**P**

97 Pacific Islander  
03 Paiute  
09 Pakistani  
20 Palauan  
01 Palestinian  
03 Pamunkey  
01 Panamanian  
03 Panamint  
03 Papago  
32 Papua New Guinean  
01 Paraguayan  
01 Parsi\*  
07 Part Hawaiian  
03 Passamaquoddy  
03 Patwin  
03 Pawnee  
03 Pen d'Oreille  
03 Penobscot  
03 Peoria  
03 Pequot  
01 Persian\*  
01 Peruvian\*  
03 Picuris  
03 Pima  
03 Pit River  
20 Pohnpeian  
03 Pojoaque



01	Polish
25	Polynesian
03	Pomo
20	Ponapean
03	Ponca
03	Poosepatuck
01	Portuguese*
03	Potawatomi
03	Potomac
03	Powhatan
03	Pueblos
01	Puerto Rican ( <i>unless specified as Black</i> )
03	Puyallup

**Q**

03	Quapaw
03	Quechan
03	Quileute
03	Quinaielt
03	Quinault

**R**

03	Rappahannock
03	Rogue River
01	Romanian*
03	Rosebud Sioux
01	Rumanian
01	Russian*

**S**

03	Sac and Fox
03	Saginaw
20	Saipanese
03	Salish
01	Salvadoran
27	Samoan
03	San Felipe
03	San Ildefonso
03	San Juan
03	San Lorenzo
03	San Luis Obispo
03	San Luiseno
03	Sandia
03	Sanpoil
03	Sanpoil Nespelem
03	Santa Barbara
03	Santa Clara
03	Santa Ynez

03 Sant'ana  
03 Santee  
03 Santee Sioux  
03 Santiam  
02 Santo Domingo\*  
01 Saudi Arabian\*  
03 Sauk and Fox  
01 Scandanavian\*  
03 Scaticook  
01 Scottish, Scotch  
03 Sekane  
03 Seminole  
01 Semitic\*!  
03 Seneca  
01 Serbian\*  
03 Seri  
01 Servian\*  
02 Seychelloise\*  
03 Shasta  
03 Shawnee  
01 Shi'ite!  
03 Shinnecock  
03 Shivwits Band of Paiutes  
03 Shoshone  
03 Shoshone-Bannock  
03 Shuswap  
01 Sicilian\*  
96 Sikkimese  
96 Singaporean  
03 Siouans  
03 Sioux  
03 Sisseton  
03 Sisseton-Wahpeton Sioux  
03 Siuslaw  
03 Skagit Suiattle  
03 Skokomish  
03 Slave  
01 Slavic, Slovakian\*  
03 Smith River  
03 Snake  
03 Snohomish  
03 Snoqualmi  
30 Solomon Islander  
03 Songish Southern Paiute  
01 South American  
03 South American Indian  
03 Spanish American Indian  
01 Spanish\*, Spaniard

03	Squaxin
96	Sri Lankan
03	Stockbridge
02	Sudanese*
96	Sumatran
03	Sumo-Mosquito
01	Sunni*!
03	Suquamish
01	Swedish*
03	Swinomish
01	Syrian

**T**

26	Tahitian
03	Taimskin
04	Taiwanese
03	Tanana
03	Tanoan Pueblos
02	Tanzanian*
03	Taos
03	Tarahumare
03	Tarascan
20	Tarawan
03	Tawakoni
03	Tejon
03	Tenino or Warm Springs
03	Tesuque
03	Teton
03	Teton Sioux
14	Thai
03	Thlinget
96	Tibetan
03	Tillamook
03	Timucua
20	Tinian
02	Tobagoan
02	Togolese*
25	Tokelauan
03	Tolowa
03	Tonawanda
28	Tongan
03	Tonkawa
03	Tonto Apache
03	Topinish
03	Totonac
02	Trinidadian

20	Trukese
03	Tsimshian
03	Tulalip
03	Tule River Indians
03	Tunica
01	Tunisian*
01	Turkish, Turk*
03	Tuscarora
03	Tututni
25	Tuvaluan

**U**

01	Ukranian*
03	Umatilla
03	Umpqua
01	United Arab Emirati
03	Upper Chinook
01	Uruguayan
03	Ute

**V**

30	Vanuatuan
01	Venezuelan*
10	Vietnamese

**W**

03	Waca
03	Waicuri-Pericue
03	Wailaki
03	Walapai
03	Walla Walla
03	Wampanoag
03	Wapato
03	Warm Springs
03	Wasco
03	Washo
03	Washoe
01	Welsh*
02	West Indian
03	Western Apache
03	Western Shoshone
96	Whello
03	Whilkut
01	White
03	Wichita
03	Wikchamni
03	Wind River Shoshone
03	Winnebago

03 Wintu  
 03 Wintun  
 03 Wishram  
 03 Wyandotte

**X**

03 Xicaque

**Y**

03 Yahooskin  
 03 Yakima  
 03 Yamel  
 03 Yana  
 03 Yankton  
 03 Yanktonnais Sioux  
 20 Yapese  
 03 Yaqui  
 03 Yaquina  
 03 Yavapai  
 03 Yawilmani  
 96 Yello  
 03 Yellow Knife  
 01 Yemenite\*  
 03 Yerington Paiute  
 03 Yokuts  
 03 Yokuts-Mono  
 03 Yomba Shoshone  
 03 Yuchi  
 01 Yugoslavian\*  
 03 Yuki  
 03 Yuma  
 03 Yurok

**Z**

03 Zacatec  
 02 Zairean  
 03 Zapotec  
 03 Zia  
 03 Zoque  
 01 Zoroastrian\*!  
 03 Zuni

**Note: The following terms cannot be coded to a specific race code. Look for other descriptions of race in the medical record. If no further information is available, code as 99 Unknown.**

Aruba Islander  
 Azerbaijani

Belizean  
Bermudan  
Biracial  
Cayenne  
Cayman Islander  
Creole  
Guyanese  
Indian (*not specified as Native American, Eastern Indian, Northern, Central,  
or South American Indian*)  
Interracial  
Mestizo  
Mixed  
Morena  
Multiethnic  
Multinational  
Multiracial  
South African  
Surinam  
Tejano

## APPENDIX X

### NATIONAL PROVIDER IDENTIFIER (NPI) CODES

The National Provider Identifier (NPI) is a unique identification number for health care providers. It is scheduled for 2007 implementation by the Centers for Medicare and Medicaid Services (CMS) as part of the Health Insurance Portability and Accountability Act of 1996 (HIPAA). Health care providers have started the process of obtaining NPI codes, and hospitals have until May 2007 to meet the HIPAA deadline. NPI numbers are being distributed by CMS to all health care providers in the United States. CMS has mandated use of the assigned NPI in all administrative and financial transactions between "large" health plans and CMS starting in May 2007. For billing purposes, these providers will be required to use NPI codes by May 2007, but indications are that some health care facilities will start using these codes in advance of this deadline. If a facility starts to use the NPI codes, that information should be available from the provider's billing department.

NPI numbers are only assigned to health care providers who meet the definition of a "covered entity," and this only includes individuals and entities licensed to provide health care. NPI's are not being issued to physicians who have opted out of government programs; entities that bill or are paid for health care services furnished by other health care providers; or clearing houses, vendors, administrative, and billing services (*Federal Register* [Friday, January 23, 2004]).

Registries should be able to record the NPI for their hospital or individual physicians with January 1, 2007, diagnoses. It is necessary, however, to be aware that NPI's may not have been assigned to all eligible parties by January 1, 2007. Historic facilities or physicians may no longer be in business or licensed and therefore, may not have an NPI assigned.

The NPI is a 10 byte numeric data item. The NPI consists of 9 numeric digits followed by one numeric check digit. The NPI will not have embedded intelligence. The NPI format and check digit calculation will be compatible with the card issuer identifier on a standard health identification card. The card standard was developed by the National Committee for Information Technology Standards (NCITS), which is accredited by the American National Standards Institute. NPI's will be issued initially with the first digit equal to 1 or 2. NPIs with the first digit equal to 1 are assigned to individual health care providers (i.e., physicians); hospitals or other entities that provide health care services will be assigned the first digit of NPI equal to 2. These digits will not be used as the first digits for other card issuer identifiers. NPI numbers will be generated using a scattering algorithm that has the capability to use all possible numeric combinations beginning with 1 or 2.

Each NPI generated will be unique, without requiring database access for verification.

When a facility starts to use the NPI codes, that information should be entered and transmitted in the appropriate NPI data item fields. It is anticipated that the implementation of the NPI will vary by facility, provider, and data collection reporting software. Hospital registries should become aware of how the NPI will be implemented in their specific software.

The following data items are all components of the NPI implementation effort.

**NPI--Registry ID (NAACCR #45)**

The National Provider Identifier (NPI) code that represents the data transmission source. This item stores the NPI of the facility registry that transmits the record.

**NPI--Reporting Facility (NAACCR #545)**

The NPI code for the facility submitting the data in the record.

**NPI--Inst Referred From (NAACCR #2415)**

The NPI code that identifies the facility that referred the patient to the reporting facility.

**NPI--Inst Referred To (NAACCR #2425)**

The NPI code that identifies the facility to which the patient was referred for further care after discharge from the reporting facility.

**NPI--Following Registry (NAACCR # 2445)**

The NPI code that records the registry responsible for following the patient.

**NPI--Physician—Managing (NAACCR # 2465)**

The NPI code that identifies the physician who is responsible for the overall management of the patient during diagnosis and/or treatment for this cancer.

**NPI--Physician--Follow-Up (NAACCR # 2475)**

The NPI code for the physician currently responsible for the patient's medical care.

**NPI--Physician--Primary Surg (NAACCR # 2485)**

The NPI code for physician who performed the most definitive surgical procedure.

**NPI--Physician 3 (NAACCR # 2495)**

The NPI code for another physician involved in the care of the patient.

**NPI--Physician 4 (NAACCR # 2505)**

The NPI code for another physician involved in the care of the patient.



## APPENDIX X

### NATIONAL PROVIDER IDENTIFIER (NPI) CODES

The National Provider Identifier (NPI) is a unique identification number for health care providers. It is scheduled for 2007 implementation by the Centers for Medicare and Medicaid Services (CMS) as part of the Health Insurance Portability and Accountability Act of 1996 (HIPAA). Health care providers have started the process of obtaining NPI codes, and hospitals have until May 2007 to meet the HIPAA deadline. NPI numbers are being distributed by CMS to all health care providers in the United States. CMS has mandated use of the assigned NPI in all administrative and financial transactions between "large" health plans and CMS starting in May 2007. For billing purposes, these providers will be required to use NPI codes by May 2007, but indications are that some health care facilities will start using these codes in advance of this deadline. If a facility starts to use the NPI codes, that information should be available from the provider's billing department.

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Each NPI generated will be unique, without requiring database access for verification.

When a facility starts to use the NPI codes, that information should be entered and transmitted in the appropriate NPI data item fields. It is anticipated that the implementation of the NPI will vary by facility, provider, and data collection reporting software. Hospital registries should become aware of how the NPI will be implemented in their specific software.

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**NPI--Physician 4 (NAACCR # 2505)**

The NPI code for another physician involved in the care of the patient.