

CDC Comparative Effectiveness Research Project

Data Dictionary for Non-NAACCR Standard Data Items

**Centers for Disease Control and Prevention
National Center for Chronic Disease Prevention & Health Promotion
Division of Cancer Prevention and Control
Cancer Surveillance Branch
Data Items Group**

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Overview

The purpose of this document is to define data standards for the inclusion of non-NAACCR standard data items that will be collected through the CDC Comparative Effectiveness Research (CER) Project. For all variables that are not routinely collected through NPCR and are not defined by NAACCR, the following document describes the data items, the cancer site for which the items will be collected, the codes to be used, and the standard source of the data item. The information below also applies to a subset of subsequent treatment variables defined in the NAACCR Data Standards and Data Dictionary but no longer supported by CoC.

All data items should be collected as defined in the protocol and data dictionary for cases diagnosed between January 1, 2011, and December 31, 2011.

For all variables defined by NAACCR standards and listed in the attachment *CER-NPCR Required Status Table*, abstractors are to use NAACCR's *Standards for Cancer Registries, Volume II: Data Standards and Data Dictionary, Fifteenth Edition, Record Layout Version 12.1, in use for diagnosis year 2011*.

In order to collect more complete treatment information on first course and subsequent therapies while still maintaining the critical data submission timelines for the project, abstractors are required to consider all treatment information available through twelve months following the patient's date of diagnosis. Please note:

- All first course treatment information is **required** for all breast, colorectal, and CML patients, while
- All subsequent course treatment information is **requested** as available for all breast, colorectal, and CML patients.

SITE/Histology Table for Detailed Treatment Data (table added April 2011)

Site	ICD-0-3 Site Code	Histology	Behavior	Gender	Dx Year
*Breast	C50.0-C50.9	All except 9050-9055, 9140, and 9590-9992	Insitu, Malignant	Male and Female	2011
**Colorectal	C18.0-18.9 C19.9, C20.9	All except 9050-9055, 9140, and 9590-9992	Insitu, Malignant	Male and Female	2011
Chronic Myeloid Leukemia	C42.1	Include 9863, 9875, 9876, 9945, and 9946	Malignant	Male and Female	2011

* The CSv2 Manual provides directions to access a list of inclusion histology codes.

**Colon and Rectum are each divided into separate schemas in the CSv2 Manual and the sections of each provide directions to access a list of histology codes.

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Section: Socio-Economic Status Indicators**
Area Level Education
(Item # NA)

Area Level Education

Alternate Name	Item #	Length	Source of Standard	Column #
AreaEducation	NA	NA	CDC/NPCR-CER	NA

Please note: SES variables will be transmitted outside of the NAACCR record layout file. (note added May 2011)

Cancer Site

All cancer sites/histologies

Description

Registry data shall be linked to a commercially purchased external data set (purchased centrally by ICF Macro and supplied to participating registries for the purposes of populating specific area-level variables), and potentially to data available from the US Census Bureau. Linkages shall be based on the patient's address at the time of diagnosis and completed at the census tract level.

Coding

The education level shall be coded to the exact value for a corresponding area level variable found on the commercially-purchased data set supplied to participating registries by ICF Macro, and potentially data available from the US Census Bureau. Participating registries shall link their patient level data to the data sets via the patient's census tract (based on address at diagnosis) and shall submit the resulting linked area-based variables as a component of the data submission.

***Please note that the selection and coding for the Socio-Economic Status variables are subject to change once full access to the available external data sets are obtained. The method of linking will remain the same and participating registries will be supplied with the external data sets for linking to registry data, however the exact variables and coding that will be used from the external data sets may be adjusted.*

Section: Socio-Economic Status Indicators**

Area Level Income (Item # NA)

Area Level Income

Alternate Name	Item #	Length	Source of Standard	Column #
AreaIncome	NA	NA	CDC/NPCR-CER	NA

Please note: SES variables will be transmitted outside of the NAACCR record layout file. (note added May 2011)

Cancer Site

All cancer sites/histologies

Description

Registry data shall be linked to a commercially purchased external data set (purchased centrally by ICF Macro and supplied to participating registries for the purposes of populating specific area-level variables), and potentially to data available from the US Census Bureau. Linkages shall be based on the patient's address at the time of diagnosis and completed at the census tract level.

Coding

The income level shall be coded to the exact value for a corresponding area level variable found on the commercially-purchased data set supplied to participating registries by ICF Macro, and potentially to data available from the US Census Bureau. Participating registries shall link their patient level data to the data sets via the patient's census tract (based on address at diagnosis) and shall submit the resulting linked area-based variables as a component of the data submission.

***Please note that the selection and coding for the Socio-Economic Status variables are subject to change once full access to the available external data sets are obtained. The method of linking will remain the same and participating registries will be supplied with the external data sets for linking to registry data, however the exact variables and coding that will be used from the external data sets may be adjusted.*

Section: Socio-Economic Status Indicators**
Area Level Poverty
(Item # NA)

Area Level Poverty

Alternate Name	Item #	Length	Source of Standard	Column #
AreaPoverty	NA	NA	CDC/NPCR-CER	NA

Please note: SES variables will be transmitted outside of the NAACCR record layout file. (note added May 2011)

Cancer Site

All cancer sites/histologies

Description

Registry data shall be linked to a commercially purchased external data set (purchased centrally by ICF Macro and supplied to participating registries for the purposes of populating specific area-level variables), and potentially to data available from the US Census Bureau. Linkages shall be based on the patient's address at the time of diagnosis and completed at the census tract level.

Coding

The poverty level shall be coded to the exact value for a corresponding area level variable found on the commercially-purchased data set supplied to participating registries by ICF Macro, and potentially to data available from the US Census Bureau. Participating registries shall link their patient level data to the data sets via the patient's census tract (based on address at diagnosis) and shall submit the resulting linked area-based variables as a component of the data submission.

***Please note that the selection and coding for the Socio-Economic Status variables are subject to change once full access to the available external data sets are obtained. The method of linking will remain the same and participating registries will be supplied with the external data sets for linking to registry data, however the exact variables and coding that will be used from the external data sets may be adjusted.*

Section: Socio-Economic Status Indicators**
Area Level Urban/Rural
(Item # NA)

Area Level Urban/Rural

Alternate Name	Item #	Length	Source of Standard	Column #
AreaUrbanRural	NA	NA	CDC/NPCR-CER	NA

Please note: SES variables will be transmitted outside of the NAACCR record layout file. (note added May 2011)

Cancer Site

All cancer sites/histologies

Description

Registry data shall be linked to a commercially purchased external data set (purchased centrally by ICF Macro and supplied to participating registries for the purposes of populating specific area-level variables), and potentially to data available from the US Census Bureau. Linkages shall be based on the patient’s address at the time of diagnosis and completed at the census tract level.

Coding

The urban/rural level shall be coded to the exact value for a corresponding area level variable found on the commercially-purchased data set supplied to participating registries by ICF Macro, and potentially to data available from the US Census Bureau. Participating registries shall link their patient level data to the data sets via the patient’s census tract (based on address at diagnosis) and shall submit the resulting linked area-based variables as a component of the data submission.

***Please note that the selection and coding for the Socio-Economic Status variables are subject to change once full access to the available external data sets are obtained. The method of linking will remain the same and participating registries will be supplied with the external data sets for linking to registry data, however the exact variables and coding that will be used from the external data sets may be adjusted.*

Section: Socio-Economic Status Indicators**
Area Level Health Professional Availability
(Item # NA)

Area Level Hlth Pro Avail

Alternate Name	Item #	Length	Source of Standard	Column #
AreaHealthProAvail	NA	NA	CDC/NPCR-CER	NA

Please note: SES variables will be transmitted outside of the NAACCR record layout file. (note added May 2011)

Cancer Site

All cancer sites/histologies

Description

Registry data shall be linked to a commercially purchased external data set (purchased centrally by ICF Macro and supplied to participating registries for the purposes of populating specific area-level variables), and potentially to data available from the US Census Bureau. Linkages shall be based on the patient’s address at the time of diagnosis and completed at the census tract level.

Coding

The health professional availability/shortage and specialist availability level shall be coded to the exact value for a corresponding area level variable found on the commercially-purchased data set supplied to participating registries by ICF Macro, and potentially to data available from the US Census Bureau. Participating registries shall link their patient level data to the data sets via the patient’s census tract (based on address at diagnosis) and shall submit the resulting linked area-based variables as a component of the data submission.

***Please note that the selection and coding for the Socio-Economic Status variables are subject to change once full access to the available external data sets are obtained. The method of linking will remain the same and participating registries will be supplied with the external data sets for linking to registry data, however the exact variables and coding that will be used from the external data sets may be adjusted.*

Section: Socio-Economic Status Indicators**
Area Level Poverty Index (Item # NA)

Area Level Poverty Index

Alternate Name	Item #	Length	Source of Standard	Column #
AreaPovertyIndex	NA	NA	CDC/NPCR-CER	NA

Please note: SES variables will be transmitted outside of the NAACCR record layout file. (note added May 2011)

Cancer Site

All cancer sites/histologies

Description

Registry data shall be linked to a commercially purchased external data set (purchased centrally by ICF Macro and supplied to participating registries for the purposes of populating specific area-level variables), and potentially to data available from the US Census Bureau. Linkages shall be based on the patient’s address at the time of diagnosis and completed at the census tract level.

Coding

The poverty index shall be coded to the exact value for a corresponding area level variable found on the commercially-purchased data set supplied to participating registries by ICF Macro, and potentially to data available from the US Census Bureau. Participating registries shall link their patient level data to the data sets via the patient’s census tract (based on address at diagnosis) and shall submit the resulting linked area-based variables as a component of the data submission.

***Please note that the selection and coding for the Socio-Economic Status variables are subject to change once full access to the available external data sets are obtained. The method of linking will remain the same and participating registries will be supplied with the external data sets for linking to registry data, however the exact variables and coding that will be used from the external data sets may be adjusted.*

Section: Socio-Economic Status Indicators**
Area Level Health Insurance Level Estimates
(Item # NA)

Area Level Hlth Ins Est

Alternate Name	Item #	Length	Source of Standard	Column #
AreaHealthInsEst	NA	NA	CDC/NPCR-CER	NA

Please note: SES variables will be transmitted outside of the NAACCR record layout file. (note added May 2011)

Cancer Site

All cancer sites/histologies

Description

Registry data shall be linked to a commercially purchased external data set (purchased centrally by ICF Macro and supplied to participating registries for the purposes of populating specific area-level variables), and potentially to data available from the US Census Bureau. Linkages shall be based on the patient's address at the time of diagnosis and completed at the census tract level.

Coding

The health insurance level estimates shall be coded to the exact value for a corresponding area level variable found on the commercially-purchased data set supplied to participating registries by ICF Macro, and potentially to data available from the US Census Bureau. Participating registries shall link their patient level data to the data sets via the patient's census tract (based on address at diagnosis) and shall submit the resulting linked area-based variables as a component of the data submission.

***Please note that the selection and coding for the Socio-Economic Status variables are subject to change once full access to the available external data sets are obtained. The method of linking will remain the same and participating registries will be supplied with the external data sets for linking to registry data, however the exact variables and coding that will be used from the external data sets may be adjusted.*

Section: Work Up Information
Height
(Item # 9960)

Height

Alternate Name	Item #	Length	Source of Standard	Column #
Height	9960	2	CDC/NPCR-CER	1236

This field is not required for cases diagnosed January 1, 2013 and later.

Cancer Site

Required for breast, colorectal, and CML when chemotherapy or other drugs given
 As available for all other sites/histologies

**Please see note under “Coding” for additional explanation (added July 2011)*

Description

Height is required for breast, colorectal, and CML when chemotherapy and/or other drugs were given, and should be entered when available for all other sites/histologies. Different tumors for the same patient may have different values. It should be collected from source records once for each cancer. Height should be taken from the Nursing Interview Guide, Flow Chart, or Vital Stats section from the patient’s hospital medical record or physician office record. The height entered should be that listed at or around the time of diagnosis. If no height was listed on the date of diagnosis, please use the height recorded on the date closest to the date of diagnosis and before treatment was started.

Coding

Entered as 2 digit numbers and measured in inches (note that 1 foot=12 inches).

Code “98” for 98 inches or greater.

Code “99” for unknown height.

All inches values should be rounded to the nearest whole number; values with decimal place x .5 and greater should be rounded up (e.g., 62.5 inches would be 63 inches).

**When coding breast, colorectal, and CML cases that include chemotherapy or other drugs, please exhaust all potential sources for height before using code “99” (“unknown”). For all sites/histologies, “blanks” are not permitted and code “99” should be used to reflect unknown height. The CDC will use the volume of cases coded to “99” to help determine the availability of information related to height in the medical record. (added July 2011)*

Please see Appendix 1 for a height conversion chart. If you prefer, you can also use the following on-line conversion calculator:

http://manuelweb.com/in_cm.htm

If you have trouble opening the link from this file, copy and paste the address into your browser.

Section: Work Up Information
Weight
(Item # 9961)

Weight

Alternate Name	Item #	Length	Source of Standard	Column #
Weight	9961	3	CDC/NPCR-CER	1238

This field is not required for cases diagnosed January 1, 2013 and later.

Cancer Site

Required for breast, colorectal, and CML when chemotherapy or other drugs given
 As available for all other sites/histologies

**Please see note under "Coding" for additional explanation (added July 2011)*

Description

Weight is required for breast, colorectal, and CML when chemotherapy and/or other drugs were given, and should be entered when available for all other sites/histologies. Different tumors for the same patient may have different values. It should be collected from source records once for each cancer. Weight should be taken from the Nursing Interview Guide, Flow Chart, or Vital Stats section from the patient's hospital medical record or physician office record. The weight entered should be that listed on the date of diagnosis. If no weight was listed on the date of diagnosis, please use the weight recorded on the date closest to the date of diagnosis and before treatment was started.

Coding

Entered as 3 digit numbers and measured in pounds (note that 1 kg = 2.2 pounds).

Code "999" for unknown weight.

All pound values should be rounded to the nearest whole number; values with decimal place x.5 and greater should be rounded up (e.g., 155.5 pounds would be 156 pounds). Patients with a weight of less than 100 pounds should be recorded with a leading 0

**When coding breast, colorectal, and CML cases that include chemotherapy or other drugs, please exhaust all potential sources for weight before using code "999" ("unknown"). For all sites/histologies, "blanks" are not permitted and code "999" should be used to reflect unknown weight. The CDC will use the volume of cases coded to "999" to help determine the availability of information related to weight in the medical record. (added July 2011)*

Please see Appendix 2 for a weight conversion chart. If you prefer, you can also use the following on-line conversion calculator:

http://manuelsweb.com/kg_lbs.htm

If you have trouble opening this link from this file, copy and paste the address into your browser.

**Section: Work Up Information
Tobacco Use
(Items # 9965, 9966, 9967, 9968)**

Tobacco Use (separated into four possible tobacco categories)

Alternate Name	Item #	Length	Source of Standard	Column #
TobaccoUseCigarette	9965	1	CDC/NPCR-CER	1293
TobaccoUseOtherSmoke	9966	1	CDC/NPCR-CER	1294
TobaccoUseSmokeless	9967	1	CDC/NPCR-CER	1295
TobaccoUseNOS	9968	1	CDC/NPCR-CER	1296

These fields are not required for cases diagnoses January 1, 2013 and later.

Cancer Site

All sites/histologies, as available in the source records

**Please see note under “Coding” for additional explanation (added July 2011)*

Description

Records the patient's past or current use of tobacco. Tobacco use should be recorded from sections such as the Nursing Interview Guide, Flow Chart, Vital Stats or Nursing Assessment section, or other available source from the patient's hospital medical record or physician office record.

The collection of Tobacco Use will be divided into three types of tobacco products and when tobacco use is indicated, but type is not specified:

- Cigarette smoking
- Smoking tobacco products other than cigarettes (e.g., pipes, cigars, kreteks)
- Smokeless tobacco products (e.g, chewing tobacco, snuff, etc.)
- Tobacco, NOS

Codes

- 0 Never used
- 1 Current user (i.e., “current user” as of date of diagnosis) (added July 2011)
- 2 Former user, quit within one year of the date of diagnosis
- 3 Former user, quit more than one year prior to the date of diagnosis
- 4 Former user, unknown when quit
- 9 Unknown/not stated/no smoking specifics provided

If the medical record only indicates “No,” use code 9 (Unknown/not stated/no smoking specifics provided) rather than “Never used.” If the medical record indicates “None,” use 0 (“Never Used”). ** For all sites/histologies, “blanks” are not permitted and code “9” should be used to reflect unknown tobacco use. The CDC will use the volume of cases coded to “9” to help determine the availability of information related to tobacco use in the medical record. (added July 2011)*

Section: Treatment – Chemotherapy
Chemotherapy 1 NSC Number
(Item # 9751)

Chemo 1 NSC Number

Alternate Name	Item #	Length	Source of Standard	Column #
Chemo1NSC	9751	6	CDC/NPCR-CER	804

Cancer Site

Breast, Colorectal, CML

Description

NSC number (*see below for description of NSC numbers) for the first chemotherapy agent administered **or planned (added August 2011) as all or part of the first course** of treatment at any facility.

Code original agent NSC numbers using the most current SEER*Rx (<http://seer.cancer.gov/tools/seerrx/>). Include treatment given **or planned (added August 2011)** at all facilities **as all or part of the first course** of therapy.

SEER*Rx allows you to look up the treatment category for over 1600 drugs and the individual treatment categories for the drugs in over 700 regimens. The SEER*Rx screen provides information on generic name, brand name, NSC number, drug category and subcategory, cancer sites where the drug is used, and other details, including whether or not the drug should be coded as treatment. Patient’s medical records and available pharmacy data sets should be included as potential sources for obtaining this data.

*Please note that the term “NSC” [number] refers to (part of) the acronym of the Cancer Chemotherapy National Service Center (CCNSC)). The NSC number is a National Service Center assigned number from the National Cancer Institute (NCI). This number is assigned to a drug during its investigational phase, prior to the adoption of a United States Adopted Name (USAN). A full list of NSC codes is maintained in SEER*Rx.

Note: If there is more than one chemotherapy agent planned, the order in which they are entered as agent 1, agent 2, or agent 3, etc., is unimportant as long as all of the agent’s information is consistently entered in the same order across all chemotherapy fields (i.e., the same chemo agent is entered as agent 1 across NSC, chemo number doses, chemo total dose, and chemo date fields).

Coding

Enter NSC codes as 6 digit numbers, as found in the SEER*Rx database. If the agent is 5 digits, enter a leading 0 to ensure a 6 digit entry. **If SEER*Rx lists more than one NSC # for the agent, use the first NSC # listed in SEER*Rx. (added July 2011)**

- ##### NSC Number (enter the actual number)
- 000000 Chemotherapy was not planned to be administered OR no additional chemotherapy agents were planned
- 999996 Patient was enrolled in a clinical trial that included chemotherapy and it is **known** by the abstractor that the patient was assigned to receive the placebo *(added January 2012)*
- 999997 Patient was enrolled in a clinical trial that included chemotherapy and it is **not known** by the abstractor if the patient was assigned to receive the actual chemotherapy agent or the placebo *(added January 2012)*
- 999998 Chemotherapy was planned and/or administered, but the agent NSC code is unknown; the code “999998” is a temporary code that registries should use while they contact ICF Macro to obtain a permanent code to enter for agents that do not have SEER*Rx-assigned NSC codes **OR if the record states only that agent was recommended and the patient refused without specifying which agent was recommended** *(added August 2011)*
- 999999 Unknown if chemotherapy therapy planned OR not required for this primary site/histology

Example 1:

Regimen

If the chart states that the patient’s first course of treatment was “FLOX regimen,” abstractor should go to SEER*Rx database and type “FLOX” in the “Search for Regimen” entry box at the bottom of the screen. SEER*Rx will return a screen that shows the FLOX regimen consists of 5-fluorouracil (code as chemotherapy), folinic acid -- generic name leucovorin (this is an ancillary agent, and therefore is not collected), and oxaliplatin (code as chemotherapy). Abstractor should click on each chemotherapy drug name to obtain the corresponding NSC number and enter the NSC number in the Chemo_NSC data fields in order:

Chemotherapy Agent #1 NSC Number would correspond to 5-fluorouracil (entry = 027640)

Chemotherapy Agent #2 NSC Number would correspond to oxaliplatin (entry = 266046)

Chemotherapy Agent #3, #4, #5, and #6 NSC Number would correspond to “No additional chemotherapy documented” (entry = 000000)

Example 2:

Single Agent

If the chart states that the patient’s first course of treatment was a single chemotherapeutic agent, abstractor should go to the SEER*Rx database and type the agent’s name to go to the screen that will list that agent’s NSC number.

Chemotherapy Agent #1 NSC Number would correspond to the agent’s NSC number as listed in SEER*RX and

Chemotherapy Agent #2, Agent #3, #4, #5, and #6 NSC Number would correspond to “No additional chemotherapy documented” (entry = 000000)

Section: Treatment – Chemotherapy
Chemotherapy 2 NSC Number
(Item # 9752)

Chemo 2 NSC Number

Alternate Name	Item #	Length	Source of Standard	Column #
Chemo2NSC	9752	6	CDC/NPCR-CER	850

Cancer Site

Breast, Colorectal, CML

Description

See description listed for Chemo 1 NSC Number in this data dictionary (CDC Comparative Effectiveness Research Project Data Dictionary for Non-NAACCR Standard Data Items).

Note: If there is more than one chemotherapy agent planned, the order in which they are entered as agent 1, agent 2, or agent 3, etc., is unimportant as long as all of the agent's information is consistently entered in the same order across all chemotherapy fields (i.e., the same chemo agent is entered as agent 1 across NSC, chemo number doses, chemo total dose, and chemo date fields).

Coding

See coding listed for Chemo 1 NSC Number in this data dictionary (CDC Comparative Effectiveness Research Project Data Dictionary for Non-NAACCR Standard Data Items).

Section: Treatment – Chemotherapy
Chemotherapy 3 NSC Number
(Item # 9753)

Chemo 3 NSC Number

Alternate Name	Item #	Length	Source of Standard	Column #
Chemo3NSC	9753	6	CDC/NPCR-CER	1300

Cancer Site

Breast, Colorectal, CML

Description

See description information listed for Chemo 1 NSC Number in this data dictionary (CDC Comparative Effectiveness Research Project Data Dictionary for Non-NAACCR Standard Data Items).

Note: If there is more than one chemotherapy agent planned, the order in which they are entered as agent 1, agent 2, or agent 3, etc., is unimportant as long as all of the agent's information is consistently entered in the same order across all chemotherapy fields (i.e., the same chemo agent is entered as agent 1 across NSC, chemo number doses, chemo total dose, and chemo date fields).

Coding

See coding information listed for Chemo 1 NSC Number in this data dictionary (CDC Comparative Effectiveness Research Project Data Dictionary for Non-NAACCR Standard Data Items).

Section: Treatment – Chemotherapy
Chemotherapy 4 NSC Number
(Item # 9754)

Chemo 4 NSC Number

Alternate Name	Item #	Length	Source of Standard	Column #
Chemo4NSC	9754	6	CDC/NPCR-CER	1346

Cancer Site

Breast, Colorectal, CML

Description

See description information listed for Chemo 1 NSC Number in this data dictionary (CDC Comparative Effectiveness Research Project Data Dictionary for Non-NAACCR Standard Data Items).

Note: If there is more than one chemotherapy agent planned, the order in which they are entered as agent 1, agent 2, or agent 3, etc., is unimportant as long as all of the agent's information is consistently entered in the same order across all chemotherapy fields (i.e., the same chemo agent is entered as agent 1 across NSC, chemo number doses, chemo total dose, and chemo date fields).

Coding

See coding information listed for Chemo 1 NSC Number in this data dictionary (CDC Comparative Effectiveness Research Project Data Dictionary for Non-NAACCR Standard Data Items).

Section: Treatment – Chemotherapy
Chemotherapy 5 NSC Number
(Item # 9755)

Chemo 5 NSC Number

Alternate Name	Item #	Length	Source of Standard	Column #
Chemo5NSC	9755	6	CDC/NPCR-CER	1624

Cancer Site

Breast, Colorectal, CML

Description

See description information listed for Chemo 1 NSC Number in this data dictionary (CDC Comparative Effectiveness Research Project Data Dictionary for Non-NAACCR Standard Data Items).

Note: If there is more than one chemotherapy agent planned, the order in which they are entered as agent 1, agent 2, or agent 3, etc., is unimportant as long as all of the agent's information is consistently entered in the same order across all chemotherapy fields (i.e., the same chemo agent is entered as agent 1 across NSC, chemo number doses, chemo total dose, and chemo date fields).

Coding

See coding information listed for Chemo 1 NSC Number in this data dictionary (CDC Comparative Effectiveness Research Project Data Dictionary for Non-NAACCR Standard Data Items).

Section: Treatment – Chemotherapy
Chemotherapy 6 NSC Number
(Item # 9756)

Chemo 6 NSC Number

Alternate Name	Item #	Length	Source of Standard	Column #
Chemo6NSC	9756	6	CDC/NPCR-CER	1670

Cancer Site

Breast, Colorectal, CML

Description

See description information listed for Chemo 1 NSC Number in this data dictionary (CDC Comparative Effectiveness Research Project Data Dictionary for Non-NAACCR Standard Data Items).

Note: If there is more than one chemotherapy agent planned, the order in which they are entered as agent 1, agent 2, or agent 3, etc., is unimportant as long as all of the agent's information is consistently entered in the same order across all chemotherapy fields (i.e., the same chemo agent is entered as agent 1 across NSC, chemo number doses, chemo total dose, and chemo date fields).

Coding

See coding information listed for Chemo 1 NSC Number in this data dictionary (CDC Comparative Effectiveness Research Project Data Dictionary for Non-NAACCR Standard Data Items).

Section: Treatment – Chemotherapy
Chemotherapy 1 Number Doses Planned
(Item # 9761)

Chemo 1 Num Doses Planned

Alternate Name	Item #	Length	Source of Standard	Column #
Chemo1NumDosesPlanned	9761	2	CDC/NPCR-CER	810

Cancer Site

Breast, Colorectal, CML

Description

For the first chemotherapy agent, this item records the total **number** of chemotherapy doses **planned** to be delivered to the patient **as all or part of the first course of treatment** at any facility.

Patient’s medical records and available pharmacy data sets should be included as potential sources for obtaining this data.

Note: If there is more than one chemotherapy agent planned, the order in which they are entered as agent 1, agent 2, or agent 3, etc., is unimportant as long as all of the agent’s information is consistently entered in the same order across all chemotherapy fields (i.e., the same chemo agent is entered as agent 1 across NSC, chemo number doses, chemo total dose, and chemo date fields).

Coding

Record the total number of chemotherapy doses planned.

- 00 Chemotherapy was not planned OR no additional chemotherapy agents were planned
- 01-96 Actual number of chemotherapy doses planned*
- 97 97 or more chemotherapy doses planned
- 98 Chemo was planned and/or administered, but number doses is unknown
- 99 Unknown if chemotherapy planned OR not required for this primary site/histology

*For doses 1-9, use a leading 0.

If the agent is given via a prescription to be taken at home and/or self administered, the

total number of doses **planned** should be coded “98.” For example, Gleevec would be coded “98.” (note added May 2011)

Example:

Patient’s first course of therapy is consistent with the FLOX treatment protocol for stage II and III colon cancer. FLOX consists of FULV regimen (5-FU, 500 mg/m² iv bolus weekly x 6; LV, 500 mg/m² iv weekly x 6, each 8 week cycle x 3) with oxaliplatin 85 mg/m² iv administered on weeks 1, 3, and 5 of each 8 week cycle x 3.

Drug	Dose	Schedule (D= Day #)	# of Cycles	Total # Doses Planned	Total Dose
5-FU	500 mg/m ²	Weekly x 6 weeks (i.e., D 1, 8, 15, 22, 29, 36)	3	6 x 3 = 18	14,490 mg
Folinic Acid/Leucovorin*	500 mg/m ²	Weekly x 6 weeks (i.e., D 1, 8, 15, 22, 29, 36)	Not Applicable	Not Applicable	Not Applicable
Oxaliplatin	85 mg/m ²	Week 1, 3, and 5 (D 1, 15, 29)	3	3 x 3 = 9	1232 mg

*Folinic Acid/Leucovorin is considered an ancillary agent, no information related to it will be collected.

In the above example, for this set of variables, the relevant coding would be:

Chemotherapy Agent #1 Planned Number of Doses is **18** (corresponding to the 5-FU, which is also the corresponding chemotherapy agent collected in variable Chemo1NSC previously)

Chemotherapy Agent #2 Planned Number of Doses is **09** (corresponding to the oxaliplatin, which is also the corresponding chemotherapy agent collected in variable Chemo2NSC previously)

Chemotherapy Agent #3 Planned Number of Doses will be coded **00**, no additional chemo agent Received doses given

Chemotherapy Agent #4 Planned Number of Doses will be coded **00**, no additional chemo agent received doses given

Chemotherapy Agent #5 Planned Number of Doses will be coded **00**, no additional chemo agent received doses given

Chemotherapy Agent #6 Planned Number of Doses will be coded **00**, no additional chemo agent received doses given

Section: Treatment – Chemotherapy
Chemotherapy 2 Number Doses Planned
(Item # 9762)

Chemo 2 Number Doses Planned

Alternate Name	Item #	Length	Source of Standard	Column #
Chemo2NumDosesPlanned	9762	2	CDC/NPCR-CER	856

Cancer Site

Breast, Colorectal, CML

Description

See description information listed for Chemo 1 Number Doses Planned in this data dictionary (CDC Comparative Effectiveness Research Project Data Dictionary for Non-NAACCR Standard Data Items).

Note: If there is more than one chemotherapy agent planned, the order in which they are entered as agent 1, agent 2, or agent 3, etc., is unimportant as long as all of the agent's information is consistently entered in the same order across all chemotherapy fields (i.e., the same chemo agent is entered as agent 1 across NSC, chemo number doses, chemo total dose, and chemo date fields).

Coding

See coding information listed for Chemo 1 Number Doses Planned in this data dictionary (CDC Comparative Effectiveness Research Project Data Dictionary for Non-NAACCR Standard Data Items).

Section: Treatment – Chemotherapy
Chemotherapy 3 Number Doses Planned
(Item # 9763)

Chemo 3 Number Doses Planned

Alternate Name	Item #	Length	Source of Standard	Column #
Chemo3NumDosesPlanned	9763	2	CDC/NPCR-CER	1306

Cancer Site

Breast, Colorectal, CML

Description

See description information listed for Chemo 1 Number Doses Planned in this data dictionary (CDC Comparative Effectiveness Research Project Data Dictionary for Non-NAACCR Standard Data Items).

Note: If there is more than one chemotherapy agent planned, the order in which they are entered as agent 1, agent 2, or agent 3, etc., is unimportant as long as all of the agent's information is consistently entered in the same order across all chemotherapy fields (i.e., the same chemo agent is entered as agent 1 across NSC, chemo number doses, chemo total dose, and chemo date fields).

Coding

See coding information listed for Chemo 1 Number Doses Planned in this data dictionary (CDC Comparative Effectiveness Research Project Data Dictionary for Non-NAACCR Standard Data Items).

Section: Treatment – Chemotherapy
Chemotherapy 4 Number Doses Planned
(Item # 9764)

Chemo 4 Number Doses Planned

Alternate Name	Item #	Length	Source of Standard	Column #
Chemo4NumDosesPlanned	9764	2	CDC/NPCR-CER	1352

Cancer Site

Breast, Colorectal, CML

Description

See description information listed for Chemo 1 Number Doses Planned in this data dictionary (CDC Comparative Effectiveness Research Project Data Dictionary for Non-NAACCR Standard Data Items).

Note: If there is more than one chemotherapy agent planned, the order in which they are entered as agent 1, agent 2, or agent 3, etc., is unimportant as long as all of the agent's information is consistently entered in the same order across all chemotherapy fields (i.e., the same chemo agent is entered as agent 1 across NSC, chemo number doses, chemo total dose, and chemo date fields).

Coding

See coding information listed for Chemo 1 Number Doses Planned in this data dictionary (CDC Comparative Effectiveness Research Project Data Dictionary for Non-NAACCR Standard Data Items).

Section: Treatment – Chemotherapy
Chemotherapy 5 Number Doses Planned
(Item # 9765)

Chemo 5 Number Doses Planned

Alternate Name	Item #	Length	Source of Standard	Column #
Chemo5NumDosesPlanned	9765	2	CDC/NPCR-CER	1630

Cancer Site

Breast, Colorectal, CML

Description

See description information listed for Chemo 1 Number Doses Planned in this data dictionary (CDC Comparative Effectiveness Research Project Data Dictionary for Non-NAACCR Standard Data Items).

Note: If there is more than one chemotherapy agent planned, the order in which they are entered as agent 1, agent 2, or agent 3, etc., is unimportant as long as all of the agent's information is consistently entered in the same order across all chemotherapy fields (i.e., the same chemo agent is entered as agent 1 across NSC, chemo number doses, chemo total dose, and chemo date fields).

Coding

See coding information listed for Chemo 1 Number Doses Planned in this data dictionary (CDC Comparative Effectiveness Research Project Data Dictionary for Non-NAACCR Standard Data Items).

Section: Treatment – Chemotherapy
Chemotherapy 6 Number Doses Planned
(Item # 9766)

Chemo 6 Number Doses Planned

Alternate Name	Item #	Length	Source of Standard	Column #
Chemo6NumDosesPlanned	9766	2	CDC/NPCR-CER	1676

Cancer Site

Breast, Colorectal, CML

Description

See description information listed for Chemo 1 Number Doses Planned in this data dictionary (CDC Comparative Effectiveness Research Project Data Dictionary for Non-NAACCR Standard Data Items).

Note: If there is more than one chemotherapy agent planned, the order in which they are entered as agent 1, agent 2, or agent 3, etc., is unimportant as long as all of the agent's information is consistently entered in the same order across all chemotherapy fields (i.e., the same chemo agent is entered as agent 1 across NSC, chemo number doses, chemo total dose, and chemo date fields).

Coding

See coding information listed for Chemo 1 Number Doses Planned in this data dictionary (CDC Comparative Effectiveness Research Project Data Dictionary for Non-NAACCR Standard Data Items).

Section: Treatment – Chemotherapy
Chemotherapy 1 Planned Dose and Planned Dose Unit
(Items # 9771, 9781)

Chemotherapy 1 Planned Dose and Planned Dose Unit

Alternate Name	Item #	Length	Source of Standard	Column #
Chemo1PlanDose	9771	6	CDC/NPCR-CER	812
Chemo1PlanDoseUnits	9781	2	CDC/NPCR-CER	818

Cancer Site

Breast, Colorectal, CML

Description

For the first chemotherapy agent, this item records the planned **total dose** to be delivered to the patient **as all or part of the first course** of treatment at any facility (note that this is the total dosage, not the total *number* of doses.)

Total dose for a given agent is the sum of each dose planned for that agent. Add all doses planned into a single total value; do not record per dose rate or individual dose value.

Note: If there is more than one chemotherapy agent planned, the order in which they are entered as agent 1, agent 2, or agent 3, etc., is unimportant as long as all of the agent's information is consistently entered in the same order across all chemotherapy fields (i.e., the same chemo agent is entered as agent 1 across NSC, chemo number doses, chemo total dose, and chemo date fields).

Coding

Record the overall total chemotherapy dose planned, including the units (when dose volume is less than 6 digits, use leading zeros):

Chemo1PlanDose Enter Dose Volume (as numbers):	Chemo1PlanDoseU Select Units:
##### Chemotherapy dose planned	00 Chemotherapy was not planned OR no additional chemotherapy agents were planned
000000 Chemotherapy was not planned OR no additional chemotherapy agents were planned	01 Mg
999998 Chemotherapy was planned and/or administered, but the dose planned is unknown	02 Grams
999999 Unknown if chemotherapy planned or not required for this primary site/histology	07 Other (please specify in chemo text field)
	98 Chemo was planned and/or administered, but dose planned unk
	99 Unk if chemo planned or not required for this primary site/histology

*If the agent is given via a prescription to be taken at home and/or self administered, the **planned** dose and units should be coded "999998" and "98." For example, Gleevec would be coded "999998" and "98." (note added May 2011)*

For more information regarding chemo dose, see Appendix 4: Chemotherapy Example.

**Section: Treatment – Chemotherapy
Chemotherapy 2 Planned Dose and
Planned Dose Unit
(Items # 9772, 9782)**

Chemotherapy 2 Planned Dose and Planned Dose Unit

Alternate Name	Item #	Length	Source of Standard	Column #
Chemo2PlanDose	9772	6	CDC/NPCR-CER	858
Chemo2PlanDoseUnits	9782	2	CDC/NPCR-CER	864

Cancer Site

Breast, Colorectal, CML

Description

See description information listed for Chemo 1 Planned Dose and Planned Dose Units in this data dictionary (CDC Comparative Effectiveness Research Project Data Dictionary for Non-NAACCR Standard Data Items).

Note: If there is more than one chemotherapy agent planned, the order in which they are entered as agent 1, agent 2, or agent 3, etc., is unimportant as long as all of the agent's information is consistently entered in the same order across all chemotherapy fields (i.e., the same chemo agent is entered as agent 1 across NSC, chemo number doses, chemo total dose, and chemo date fields).

Coding

See coding information listed for Chemo 1 Planned Dose and Planned Dose Units in this data dictionary (CDC Comparative Effectiveness Research Project Data Dictionary for Non-NAACCR Standard Data Items).

**Section: Treatment – Chemotherapy
Chemotherapy 3 Planned Dose and
Planned Dose Unit
(Items # 9773, 9783)**

Chemotherapy 3 Planned Dose and Planned Dose Unit

Alternate Name	Item #	Length	Source of Standard	Column #
Chemo3PlanDose	9773	6	CDC/NPCR-CER	1308
Chemo3PlanDoseUnits	9783	2	CDC/NPCR-CER	1314

Cancer Site

Breast, Colorectal, CML

Description

See description information listed for Chemo 1 Planned Dose and Planned Dose Units in this data dictionary (CDC Comparative Effectiveness Research Project Data Dictionary for Non-NAACCR Standard Data Items).

Note: If there is more than one chemotherapy agent planned, the order in which they are entered as agent 1, agent 2, or agent 3, etc., is unimportant as long as all of the agent's information is consistently entered in the same order across all chemotherapy fields (i.e., the same chemo agent is entered as agent 1 across NSC, chemo number doses, chemo total dose, and chemo date fields).

Coding

See coding information listed for Chemo 1 Planned Dose and Planned Dose Units in this data dictionary (CDC Comparative Effectiveness Research Project Data Dictionary for Non-NAACCR Standard Data Items).

**Section: Treatment – Chemotherapy
Chemotherapy 4 Planned Dose and
Planned Dose Unit
(Items # 9774, 9784)**

Chemotherapy 4 Planned Dose and Planned Dose Units

Alternate Name	Item #	Length	Source of Standard	Column #
Chemo4PlanDose	9774	6	CDC/NPCR-CER	1354
Chemo4PlanDoseUnits	9784	2	CDC/NPCR-CER	1360

Cancer Site

Breast, Colorectal, CML

Description

See description information listed for Chemo 1 Planned Dose and Planned Dose Units in this data dictionary (CDC Comparative Effectiveness Research Project Data Dictionary for Non-NAACCR Standard Data Items).

Note: If there is more than one chemotherapy agent planned, the order in which they are entered as agent 1, agent 2, or agent 3, etc., is unimportant as long as all of the agent's information is consistently entered in the same order across all chemotherapy fields (i.e., the same chemo agent is entered as agent 1 across NSC, chemo number doses, chemo total dose, and chemo date fields).

Coding

See coding information listed for Chemo 1 Planned Dose and Planned Dose Units in this data dictionary (CDC Comparative Effectiveness Research Project Data Dictionary for Non-NAACCR Standard Data Items).

**Section: Treatment – Chemotherapy
Chemotherapy 5 Planned Dose and
Planned Dose Unit
(Items # 9775, 9785)**

Chemotherapy 5 Planned Dose and Planned Dose Unit

Alternate Name	Item #	Length	Source of Standard	Column #
Chemo5PlanDose	9775	6	CDC/NPCR-CER	1632
Chemo5PlanDoseUnits	9785	2	CDC/NPCR-CER	1638

Cancer Site

Breast, Colorectal, CML

Description

See description information listed for Chemo 1 Planned Dose and Planned Dose Units in this data dictionary (CDC Comparative Effectiveness Research Project Data Dictionary for Non-NAACCR Standard Data Items).

Note: If there is more than one chemotherapy agent planned, the order in which they are entered as agent 1, agent 2, or agent 3, etc., is unimportant as long as all of the agent's information is consistently entered in the same order across all chemotherapy fields (i.e., the same chemo agent is entered as agent 1 across NSC, chemo number doses, chemo total dose, and chemo date fields).

Coding

See coding information listed for Chemo 1 Planned Dose and Planned Dose Units in this data dictionary (CDC Comparative Effectiveness Research Project Data Dictionary for Non-NAACCR Standard Data Items).

**Section: Treatment – Chemotherapy
Chemotherapy 6 Planned Dose and
Planned Dose Unit
(Items # 9776, 9786)**

Chemotherapy 6 Planned Dose and Planned Dose Unit

Alternate Name	Item #	Length	Source of Standard	Column #
Chemo6PlanDose	9776	6	CDC/NPCR-CER	1678
Chemo6PlanDoseUnits	9786	2	CDC/NPCR-CER	1684

Cancer Site

Breast, Colorectal, CML

Description

See description information listed for Chemo 1 Planned Dose and Planned Dose Units in this data dictionary (CDC Comparative Effectiveness Research Project Data Dictionary for Non-NAACCR Standard Data Items).

Note: If there is more than one chemotherapy agent planned, the order in which they are entered as agent 1, agent 2, or agent 3, etc., is unimportant as long as all of the agent's information is consistently entered in the same order across all chemotherapy fields (i.e., the same chemo agent is entered as agent 1 across NSC, chemo number doses, chemo total dose, and chemo date fields).

Coding

See coding information listed for Chemo 1 Planned Dose and Planned Dose Units in this data dictionary (CDC Comparative Effectiveness Research Project Data Dictionary for Non-NAACCR Standard Data Items).

Section: Treatment – Chemotherapy
Chemotherapy 1 Number Doses Received
(Item # 9791)

Chemo 1 Number Doses Received

Alternate Name	Item #	Length	Source of Standard	Column #
Chemo1NumDosesRec	9791	2	CDC/NPCR-CER	820

Cancer Site

Breast, Colorectal, CML

Description

For the first chemotherapy agent, this item records the total **number** of chemotherapy doses delivered to the patient **as all or part of the first course of treatment** at any facility.

Patient’s medical records and available pharmacy data sets should be included as potential sources for obtaining this data.

Note: If there is more than one chemotherapy agent planned, the order in which they are entered as agent 1, agent 2, or agent 3, etc., is unimportant as long as all of the agent’s information is consistently entered in the same order across all chemotherapy fields (i.e., the same chemo agent is entered as agent 1 across NSC, chemo number doses, chemo total dose, and chemo date fields).

Coding

Record the total number of chemotherapy doses received.

00 Chemotherapy was not received OR no additional chemotherapy agents were received

01-96 Actual number of chemotherapy doses received*

97 97 or more chemotherapy doses received

98 Chemotherapy was received, but the number of doses is unknown

99 Unknown if chemotherapy received or not required for this primary site/histology

*For doses 1-9, use a leading 0.

*If the agent is given via a prescription to be taken at home and/or self-administered, the total number of doses **received** should be coded “99.” For example, Gleevec would be coded “99.” (note added May 2011)*

Example:

Patient's first course of therapy is consistent with the FLOX treatment protocol for stage II and III colon cancer. FLOX consists of FULV regimen (5-FU, 500 mg/m² iv bolus weekly x 6; LV, 500 mg/m² iv weekly x 6, each 8 week cycle x 3) with oxaliplatin 85 mg/m² iv administered on weeks 1, 3, and 5 of each 8 week cycle x 3.

Patient became too ill to finish third cycle (as planned), and missed the last two doses of 5-FU and LV, and the last dose of oxaliplatin.

Drug	Dose	Schedule (D=Day #)	# of Cycles	Total # Doses Received	Total Dose Received
5-FU	500 mg/m ²	Weekly x 6 weeks (i.e., D 1, 8, 15, 22, 29, 36)	3	6 x 3 = 18 less 2 doses = 16 total	12,880 mg
Folinic Acid/Leucovorin*	500 mg/m ²	Weekly x 6 weeks (i.e., D 1, 8, 15, 22, 29, 36)	Not Applicable	Not Applicable	Not Applicable
Oxaliplatin	85 mg/m ²	Week 1, 3, and 5 (D 1, 15, 29)	3	3 x 3 = 9 less 1 dose = 8 total	1095 mg

*Folinic Acid/Leucovorin is considered an ancillary agent, no information related to it will be collected.

In the above example, for this set of variables, the relevant coding would be:

Chemotherapy Agent #1 Received Number of Doses is **16** (corresponding to the 5-FU, which is also the corresponding chemotherapy agent collected in variable Chemo1NSC and Chemo1PlanDose previously)

Chemotherapy Agent #2 Received Number of Doses is **08** (corresponding to the oxaliplatin, which is also the corresponding chemotherapy agent collected in variable Chemo2NSC and Chemo2PlanDose previously)

Chemotherapy Agent #3 Received Number of Doses will be coded **00**, no additional chemo agent Received doses given

Chemotherapy Agent #4 Received Number of Doses will be coded **00**, no additional chemo agent received doses given

Chemotherapy Agent #5 Received Number of Doses will be coded **00**, no additional chemo agent received doses given

Chemotherapy Agent #6 Received Number of Doses will be coded **00**, no additional chemo agent received doses given

Section: Treatment – Chemotherapy
Chemotherapy 2 Number Doses Received
(Item # 9792)

Chemo 2 Number Doses Received

Alternate Name	Item #	Length	Source of Standard	Column #
Chemo2NumDosesRec	9792	2	CDC/NPCR-CER	866

Cancer Site

Breast, Colorectal, CML

Description

See description information listed for Chemo 1 Number Doses Received in this data dictionary (CDC Comparative Effectiveness Research Project Data Dictionary for Non-NAACCR Standard Data Items).

Note: If there is more than one chemotherapy agent planned, the order in which they are entered as agent 1, agent 2, or agent 3, etc., is unimportant as long as all of the agent's information is consistently entered in the same order across all chemotherapy fields (i.e., the same chemo agent is entered as agent 1 across NSC, chemo number doses, chemo total dose, and chemo date fields).

Coding

See coding information listed for Chemo 1 Number Doses Received in this data dictionary (CDC Comparative Effectiveness Research Project Data Dictionary for Non-NAACCR Standard Data Items).

Section: Treatment – Chemotherapy
Chemotherapy 3 Number Doses Received
(Item # 9793)

Chemo 3 Number Doses Received

Alternate Name	Item #	Length	Source of Standard	Column #
Chemo3NumDosesRec	9793	2	CDC/NPCR-CER	1316

Cancer Site

Breast, Colorectal, CML

Description

See description information listed for Chemo 1 Number Doses Received in this data dictionary (CDC Comparative Effectiveness Research Project Data Dictionary for Non-NAACCR Standard Data Items).

Note: If there is more than one chemotherapy agent planned, the order in which they are entered as agent 1, agent 2, or agent 3, etc., is unimportant as long as all of the agent's information is consistently entered in the same order across all chemotherapy fields (i.e., the same chemo agent is entered as agent 1 across NSC, chemo number doses, chemo total dose, and chemo date fields).

Coding

See coding information listed for Chemo 1 Number Doses Received in this data dictionary (CDC Comparative Effectiveness Research Project Data Dictionary for Non-NAACCR Standard Data Items).

Section: Treatment – Chemotherapy
Chemotherapy 4 Number of Doses Received
(Item # 9794)

Chemo 4 Number Doses Received

Alternate Name	Item #	Length	Source of Standard	Column #
Chemo4NumDosesRec	9794	2	CDC/NPCR-CER	1362

Cancer Site

Breast, Colorectal, CML

Description

See description information listed for Chemo 1 Number Doses Received in this data dictionary (CDC Comparative Effectiveness Research Project Data Dictionary for Non-NAACCR Standard Data Items).

Note: If there is more than one chemotherapy agent planned, the order in which they are entered as agent 1, agent 2, or agent 3, etc., is unimportant as long as all of the agent's information is consistently entered in the same order across all chemotherapy fields (i.e., the same chemo agent is entered as agent 1 across NSC, chemo number doses, chemo total dose, and chemo date fields).

Coding

See coding information listed for Chemo 1 Number Doses Received in this data dictionary (CDC Comparative Effectiveness Research Project Data Dictionary for Non-NAACCR Standard Data Items).

Section: Treatment – Chemotherapy
Chemotherapy 5 Number Doses Received
(Item # 9795)

Chemo 5 Number Doses Received

Alternate Name	Item #	Length	Source of Standard	Column #
Chemo5NumDosesRec	9795	2	CDC/NPCR-CER	1640

Cancer Site

Breast, Colorectal, CML

Description

See description information listed for Chemo 1 Number Doses Received in this data dictionary (CDC Comparative Effectiveness Research Project Data Dictionary for Non-NAACCR Standard Data Items).

Note: If there is more than one chemotherapy agent planned, the order in which they are entered as agent 1, agent 2, or agent 3, etc., is unimportant as long as all of the agent's information is consistently entered in the same order across all chemotherapy fields (i.e., the same chemo agent is entered as agent 1 across NSC, chemo number doses, chemo total dose, and chemo date fields).

Coding

See coding information listed for Chemo 1 Number Doses Received in this data dictionary (CDC Comparative Effectiveness Research Project Data Dictionary for Non-NAACCR Standard Data Items).

Section: Treatment – Chemotherapy
Chemotherapy 6 Number Doses Received
(Item # 9796)

Chemo 6 Number Doses Received

Alternate Name	Item #	Length	Source of Standard	Column #
Chemo6NumDosesRec	9796	2	CDC/NPCR-CER	1686

Cancer Site

Breast, Colorectal, CML

Description

See description information listed for Chemo 1 Number Doses Received in this data dictionary (CDC Comparative Effectiveness Research Project Data Dictionary for Non-NAACCR Standard Data Items).

Note: If there is more than one chemotherapy agent planned, the order in which they are entered as agent 1, agent 2, or agent 3, etc., is unimportant as long as all of the agent's information is consistently entered in the same order across all chemotherapy fields (i.e., the same chemo agent is entered as agent 1 across NSC, chemo number doses, chemo total dose, and chemo date fields).

Coding

See coding information listed for Chemo 1 Number Doses Received in this data dictionary (CDC Comparative Effectiveness Research Project Data Dictionary for Non-NAACCR Standard Data Items).

Section: Treatment – Chemotherapy Chemotherapy 1 Received Dose and Received Dose Units (Items # 9801, 9811)

Chemo 1 Received Dose and Received Dose Units

Alternate Name	Item #	Length	Source of Standard	Column #
Chemo1RecDose	9801	6	CDC/NPCR-CER	822
Chemo1RecDoseUnits	9811	2	CDC/NPCR-CER	828

Cancer Site

Breast, Colorectal, CML

Description

For the first chemotherapy agent, this item records the **total dose** actually delivered to the patient **as all or part of the first course** of treatment at any facility. Note that this is the total dosage received, not the total *number* of doses.)

Total dose for a given agent is the sum of each dose given for that agent. Add all doses received into a single total value; do not record per dose rate or the individual dose value.

Note: If there is more than one chemotherapy agent planned, the order in which they are entered as agent 1, agent 2, or agent 3, etc., is unimportant as long as all of the agent's information is consistently entered in the same order across all chemotherapy fields (i.e., the same chemo agent is entered as agent 1 across NSC, chemo number doses, chemo total dose, and chemo date fields).

Coding

Record the overall total chemotherapy dose received, including the units (when dose volume is less than 6 digits, use leading zeros):

Chemo1RcvDose Enter Dose Volume (as numbers):	Chemo1RcvDoseU Select Units:
##### Chemotherapy dose received	00 Chemo was not received OR no
000000 Chemotherapy was not	additional chemotherapy agents
received OR no additional	were received
chemo agents were received	01 Mg
999998 Chemotherapy was received,	02 Grams
but the dose Received is	07 Other (please specify in chemo text
unknown	field, item # XX)
999999 Unknown if chemotherapy	98 Chemo received, but dose recd unk
received OR not required for	99 Unk if chemo received OR not required
this primary site/histology	for this primary site/histology

*If the agent is given via a prescription to be taken at home and/or self-administered, the **received** dose and units should be coded "999999" and "99." For example, Gleevec would be coded "999999" and "99." (note added May 2011)*

For more information regarding chemo dose, see Appendix 4: Chemotherapy Example.

**Section: Treatment – Chemotherapy
Chemotherapy 2 Received Dose and
Received Dose Units
(Items # 9802, 9812)**

Chemotherapy 2 Received Dose and Received Dose Units

Alternate Name	Item #	Length	Source of Standard	Column #
Chemo2RecDose	9802	6	CDC/NPCR-CER	868
Chemo2RecDoseUnits	9812	2	CDC/NPCR-CER	874

Cancer Site

Breast, Colorectal, CML

Description

See description information listed for Chemo 1 Received Dose and Received Dose Units in this data dictionary (CDC Comparative Effectiveness Research Project Data Dictionary for Non-NAACCR Standard Data Items).

Note: If there is more than one chemotherapy agent planned, the order in which they are entered as agent 1, agent 2, or agent 3, etc., is unimportant as long as all of the agent's information is consistently entered in the same order across all chemotherapy fields (i.e., the same chemo agent is entered as agent 1 across NSC, chemo number doses, chemo total dose, and chemo date fields).

Coding

See coding information listed for Chemo 1 Received Dose and Received Dose Units in this data dictionary (CDC Comparative Effectiveness Research Project Data Dictionary for Non-NAACCR Standard Data Items).

**Section: Treatment – Chemotherapy
Chemotherapy 3 Received Dose and
Received Dose Units
(Items # 9803, 9813)**

Chemo 3 Received Dose and Received Dose Units

Alternate Name	Item #	Length	Source of Standard	Column #
Chemo3RecDose	9803	6	CDC/NPCR-CER	1318
Chemo3RecDoseUnits	9813	2	CDC/NPCR-CER	1324

Cancer Site

Breast, Colorectal, CML

Description

See description information listed for Chemo 1 Received Dose and Received Dose Units in this data dictionary (CDC Comparative Effectiveness Research Project Data Dictionary for Non-NAACCR Standard Data Items).

Note: If there is more than one chemotherapy agent planned, the order in which they are entered as agent 1, agent 2, or agent 3, etc., is unimportant as long as all of the agent's information is consistently entered in the same order across all chemotherapy fields (i.e., the same chemo agent is entered as agent 1 across NSC, chemo number doses, chemo total dose, and chemo date fields).

Coding

See coding information listed for Chemo 1 Received Dose and Received Dose Units in this data dictionary (CDC Comparative Effectiveness Research Project Data Dictionary for Non-NAACCR Standard Data Items).

**Section: Treatment – Chemotherapy
Chemotherapy 4 Received Dose and
Received Dose Units
(Items # 9804, 9814)**

Chemo 4 Received Dose and Received Dose Units

Alternate Name	Item #	Length	Source of Standard	Column #
Chemo4RecDose	9804	6	CDC/NPCR-CER	1364
Chemo4RecDoseUnits	9814	2	CDC/NPCR-CER	1370

Cancer Site

Breast, Colorectal, CML

Description

See description information listed for Chemo 1 Received Dose and Received Dose Units in this data dictionary (CDC Comparative Effectiveness Research Project Data Dictionary for Non-NAACCR Standard Data Items).

Note: If there is more than one chemotherapy agent planned, the order in which they are entered as agent 1, agent 2, or agent 3, etc., is unimportant as long as all of the agent's information is consistently entered in the same order across all chemotherapy fields (i.e., the same chemo agent is entered as agent 1 across NSC, chemo number doses, chemo total dose, and chemo date fields).

Coding

See coding information listed for Chemo 1 Received Dose and Received Dose Units in this data dictionary (CDC Comparative Effectiveness Research Project Data Dictionary for Non-NAACCR Standard Data Items).

**Section: Treatment – Chemotherapy
Chemotherapy 5 Received Dose and
Received Dose Units
(Items # 9805, 9815)**

Chemo 5 Received Dose and Received Dose Units

Alternate Name	Item #	Length	Source of Standard	Column #
Chemo5RecDose	9805	6	CDC/NPCR-CER	1642
Chemo5RecDoseUnits	9815	2	CDC/NPCR-CER	1648

Cancer Site

Breast, Colorectal, CML

Description

See description information listed for Chemo 1 Received Dose and Received Dose Units in this data dictionary (CDC Comparative Effectiveness Research Project Data Dictionary for Non-NAACCR Standard Data Items).

Note: If there is more than one chemotherapy agent planned, the order in which they are entered as agent 1, agent 2, or agent 3, etc., is unimportant as long as all of the agent's information is consistently entered in the same order across all chemotherapy fields (i.e., the same chemo agent is entered as agent 1 across NSC, chemo number doses, chemo total dose, and chemo date fields).

Coding

See coding information listed for Chemo 1 Received Dose and Received Dose Units in this data dictionary (CDC Comparative Effectiveness Research Project Data Dictionary for Non-NAACCR Standard Data Items).

**Section: Treatment – Chemotherapy
Chemotherapy 6 Received Dose and
Received Dose Units
(Items # 9806, 9816)**

Chemo 6 Received Dose and Received Dose Units

Alternate Name	Item #	Length	Source of Standard	Column #
Chemo6RecDose	9806	6	CDC/NPCR-CER	1688
Chemo6RecDoseUnits	9816	2	CDC/NPCR-CER	1694

Cancer Site

Breast, Colorectal, CML

Description

See description information listed for Chemo 1 Received Dose and Received Dose Units in this data dictionary (CDC Comparative Effectiveness Research Project Data Dictionary for Non-NAACCR Standard Data Items).

Note: If there is more than one chemotherapy agent planned, the order in which they are entered as agent 1, agent 2, or agent 3, etc., is unimportant as long as all of the agent's information is consistently entered in the same order across all chemotherapy fields (i.e., the same chemo agent is entered as agent 1 across NSC, chemo number doses, chemo total dose, and chemo date fields).

Coding

See coding information listed for Chemo 1 Received Dose and Received Dose Units in this data dictionary (CDC Comparative Effectiveness Research Project Data Dictionary for Non-NAACCR Standard Data Items).

Section: Treatment – Chemotherapy
Chemotherapy 1 Start Date
(Item # 9821)

Chemo 1 Start Date

Alternate Name	Item #	Length	Source of Standard	Column #
Chemo1StartDate	9821	8	CDC/NPCR-CER	830

Cancer Site

Breast, Colorectal, CML

Description

For the first chemotherapy agent, this item records the date for the first day of the first cycle that the patient started chemotherapy **as all or part of the first course** of treatment at any facility.

Patient’s medical records and available pharmacy data sets should be included as potential sources for obtaining this data.

Note: If there is more than one chemotherapy agent planned, the order in which they are entered as agent 1, agent 2, or agent 3, etc., is unimportant as long as all of the agent’s information is consistently entered in the same order across all chemotherapy fields (i.e., the same chemo agent is entered as agent 1 across NSC, chemo number doses, chemo total dose, and chemo date fields).

Coding

Record the first date the patient received the first cycle of chemotherapy **as all or part of the first course** of treatment.

See *NAACCR Standards for Cancer Registries, Volume II: Data Standards and Data Dictionary, Fifteenth Edition, page 97 for date format.*

If the agent is given via a prescription to be taken at home and/or self-administered, the chemotherapy start date should be left blank and the corresponding date flag should be coded “12.” (note added May 2011)

Example:

Patient’s first course of therapy is consistent with the FLOX treatment protocol for stage II and III colon cancer. FLOX consists of FULV regimen (5-FU, 500 mg/m² iv bolus weekly x 6; LV, 500 mg/m² iv weekly x 6, each 8 week cycle x 3) with oxaliplatin 85 mg/m² iv administered on weeks 1, 3, and 5 of each 8 week cycle x 3. **Patient’s first treatment was on May 24, 2010.**

Patient became too ill to finish third cycle (as planned), and missed the last two doses of 5-FU and LV, and the last dose of oxaliplatin. Last day chemotherapy administered was October 4, 2010 for 5-FU and LV (patient missed October 11 and 18 planned treatments) and September 27 for oxaliplatin (patient missed October 11 planned treatment). See chart for full listing of how dates correspond to 3 cycles, 8 weeks each:

Cycle 1: Week 1 (Day 1): May 24, 2010 Start 5-FU, LV; oxaliplatin
Week 2 (Day 8): May 31, 2010 Continue 5-FU, LV
Week 3 (Day 15): June 7, 2010 Continue 5-FU, LV; oxaliplatin
Week 4 (Day 22): June 14, 2010 Continue 5-FU, LV
Week 5 (Day 29): June 21, 2010 Continue 5-FU, LV; oxaliplatin
Week 6 (Day 36): June 28, 2010 Continue 5-FU, LV
Week 7 (Day 43): July 5, 2010 No chemo agents scheduled
Week 8 (Day 50): July 12, 2010 No chemo agents scheduled

Cycle 2: Week 1 (Day 1): July 19, 2010 Start 5-FU, LV; oxaliplatin
Week 2 (Day 8): July 26, 2010 Continue 5-FU, LV
Week 3 (Day 15): August 2, 2010 Continue 5-FU, LV; oxaliplatin
Week 4 (Day 22): August 9, 2010 Continue 5-FU, LV
Week 5 (Day 29): August 16, 2010 Continue 5-FU, LV; oxaliplatin
Week 6 (Day 36): August 23, 2010 Continue 5-FU, LV
Week 7 (Day 43): August 30, 2010 No chemo agents scheduled
Week 8 (Day 50): September 6, 2010 No chemo agents scheduled

Cycle 3: Week 1: September 13, 2010 Start 5-FU, LV; oxaliplatin
Week 2: September 20, 2010 Continue 5-FU, LV
Week 3: September 27, 2010 Continue 5-FU, LV; oxaliplatin
Week 4: October 4, 2010 Continue 5-FU, LV
Week 5: October 11, 2010 Continue 5-FU, LV; oxaliplatin -- Patient became too ill to finish third cycle and missed this treatment
Week 6: October 18, 2010 Continue 5-FU, LV -- Patient became too ill to finish third cycle and missed this treatment
Week 7: October 25, 2010 No chemo agents scheduled
Week 8: November 1, 2010 No chemo agents scheduled

In the above example, for this variable, the relevant coding would be:

Chemotherapy Agent #1 Start Date is 20100524

Chemotherapy Agent #2 Start Date is 20100524

Chemotherapy Agent #3, #4, #5, and #6 State Date is Blank

Section: Treatment – Chemotherapy
Chemotherapy 1 Start Date Flag
(Item # 9831)

Chemo 1 Start Date Flag

Alternate Name	Item #	Length	Source of Standard	Column #
Chemo1StartDateFlag	9831	2	CDC/NPCR-CER	838

Cancer Site

Breast, Colorectal, CML

Description

This flag explains why no appropriate value is in the field, Chemo 1 Start Date [9821].

Rationale

Prior to *NAACCR Standards for Cancer Registries, Volume II: Data Standards and Data Dictionary, Fifteenth Edition, Version 12* (through 2009 diagnosis), date fields included codes that provided information other than dates. As part of an initiative to standardize date fields, new fields were introduced to accommodate non-date information that had previously been transmitted in date fields. The non-standard data items for the CDC/NPCR-CER project dates fields have been designed to follow the model set by the NAACCR standards.

Codes (see Appendix H of *NAACCR Standards for Cancer Registries, Volume II: Data Standards and Data Dictionary, Fifteenth Edition, Version 12*, for the complete Flavors of Null table, which includes the NAACCR codes, HL7 codes and definitions).

- 10 No information whatsoever can be inferred from this exceptional value (e.g., unknown if any chemotherapy agent administered)
- 11 No proper value is applicable in this context (e.g., no chemotherapy agent administered)
- 12 A proper value is applicable but not known. This event occurred, but the date is unknown (e.g., chemotherapy administered but date is unknown).
- 15 Information is not available at this time, but it is expected that it will be available later (e.g., chemotherapy is planned as part of the first course of therapy, but had not been started at the time of the most recent follow up).
- Blank A valid date value is provided in item Chemo 1 Start Date [9821], or the date was not expected to have been transmitted

Comment: This is consistent with part of the initiative of the transformation from the old NAACCR date standards to interoperable dates.

If the agent is given via a prescription to be taken at home and/or self-administered, the chemotherapy start date should be left blank and the corresponding date flag should be coded "12." (note added May 2011)

Section: Treatment – Chemotherapy
Chemotherapy 2 Start Date
(Item # 9822)

Chemo 2 Start Date

Alternate Name	Item #	Length	Source of Standard	Column #
Chemo2StartDate	9822	8	CDC/NPCR-CER	876

Cancer Site

Breast, Colorectal, CML

Description

See description information listed for Chemo 1 Start Date in this data dictionary (CDC Comparative Effectiveness Research Project Data Dictionary for Non-NAACCR Standard Data Items).

Note: If there is more than one chemotherapy agent planned, the order in which they are entered as agent 1, agent 2, or agent 3, etc., is unimportant as long as all of the agent's information is consistently entered in the same order across all chemotherapy fields (i.e., the same chemo agent is entered as agent 1 across NSC, chemo number doses, chemo total dose, and chemo date fields).

Coding

See coding information listed for Chemo 1 Start Date in this data dictionary (CDC Comparative Effectiveness Research Project Data Dictionary for Non-NAACCR Standard Data Items).

Section: Treatment – Chemotherapy
Chemotherapy 2 Start Date Flag
(Item # 9832)

Chemo 2 Start Date Flag

Alternate Name	Item #	Length	Source of Standard	Column #
Chemo2StartDateFlag	9832	2	CDC/NPCR-CER	884

Cancer Site

Breast, Colorectal, CML

Description

This flag explains why no appropriate value is in the field, Chemo 2 Start Date [9822].

Rationale

Prior to *NAACCR Standards for Cancer Registries, Volume II: Data Standards and Data Dictionary, Fifteenth Edition, Version 12* (through 2009 diagnosis), date fields included codes that provided information other than dates. As part of an initiative to standardize date fields, new fields were introduced to accommodate non-date information that had previously been transmitted in date fields. The non-standard data items for the CDC/NPCR-CER project dates fields have been designed to follow the model set by the NAACCR standards.

Codes (see Appendix H of *NAACCR Standards for Cancer Registries, Volume II: Data Standards and Data Dictionary, Fifteenth Edition, Version 12*, for the complete Flavors of Null table, which includes the NAACCR codes, HL7 codes and definitions).

- 10 No information whatsoever can be inferred from this exceptional value (e.g., unknown if any chemotherapy agent administered)
- 11 No proper value is applicable in this context (e.g., no chemotherapy agent administered)
- 12 A proper value is applicable but not known. This event occurred, but the date is unknown (e.g., chemotherapy administered but date is unknown).
- 15 Information is not available at this time, but it is expected that it will be available later (e.g., chemotherapy is planned as part of the first course of therapy, but had not been started at the time of the most recent follow up).
- Blank A valid date value is provided in item Chemo 2 Start Date [9822], or the date was not expected to have been transmitted

Comment: This is consistent with part of the initiative of the transformation from the old NAACCR date standards to interoperable dates.

If the agent is given via a prescription to be taken at home and/or self-administered, the chemotherapy start date should be left blank and the corresponding date flag should be coded "12." (note added May 2011)

Section: Treatment – Chemotherapy
Chemotherapy 3 Start Date
(Item # 9823)

Chemo 3 Start Date

Alternate Name	Item #	Length	Source of Standard	Column #
Chemo3StartDate	9823	8	CDC/NPCR-CER	1326

Cancer Site

Breast, Colorectal, CML

Description

See description information listed for Chemo 1 Start Date in this data dictionary (CDC Comparative Effectiveness Research Project Data Dictionary for Non-NAACCR Standard Data Items).

Note: If there is more than one chemotherapy agent planned, the order in which they are entered as agent 1, agent 2, or agent 3, etc., is unimportant as long as all of the agent's information is consistently entered in the same order across all chemotherapy fields (i.e., the same chemo agent is entered as agent 1 across NSC, chemo number doses, chemo total dose, and chemo date fields).

Coding

See coding information listed for Chemo 1 Start Date in this data dictionary (CDC Comparative Effectiveness Research Project Data Dictionary for Non-NAACCR Standard Data Items).

Section: Treatment – Chemotherapy
Chemotherapy 3 Start Date Flag
(Item # 9833)

Chemo 3 Start Date Flag

Alternate Name	Item #	Length	Source of Standard	Column #
Chemo3StartDateFlag	9833	2	CDC/NPCR-CER	1334

Cancer Site

Breast, Colorectal, CML

Description

This flag explains why no appropriate value is in the field, Chemo 3 Start Date [9823].

Rationale

Prior to *NAACCR Standards for Cancer Registries, Volume II: Data Standards and Data Dictionary, Fifteenth Edition, Version 12* (through 2009 diagnosis), date fields included codes that provided information other than dates. As part of an initiative to standardize date fields, new fields were introduced to accommodate non-date information that had previously been transmitted in date fields. The non-standard data items for the CDC/NPCR-CER project dates fields have been designed to follow the model set by the NAACCR standards.

Codes (see Appendix H of *NAACCR Standards for Cancer Registries, Volume II: Data Standards and Data Dictionary, Fifteenth Edition, Version 12*, for the complete Flavors of Null table, which includes the NAACCR codes, HL7 codes and definitions).

- 10 No information whatsoever can be inferred from this exceptional value (e.g., unknown if any chemotherapy agent administered)
- 11 No proper value is applicable in this context (e.g., no chemotherapy agent administered)
- 12 A proper value is applicable but not known. This event occurred, but the date is unknown (e.g., chemotherapy administered but date is unknown).
- 15 Information is not available at this time, but it is expected that it will be available later (e.g., chemotherapy is planned as part of the first course of therapy, but had not been started at the time of the most recent follow up).
- Blank A valid date value is provided in item Chemo 3 Start Date [9823], or the date was not expected to have been transmitted

Comment: This is consistent with part of the initiative of the transformation from the old NAACCR date standards to interoperable dates.

If the agent is given via a prescription to be taken at home and/or self-administered, the chemotherapy start date should be left blank and the corresponding date flag should be coded "12." (note added May 2011)

Section: Treatment – Chemotherapy
Chemotherapy 4 Start Date
(Item # 9824)

Chemo 4 Start Date

Alternate Name	Item #	Length	Source of Standard	Column #
Chemo4StartDate	9824	8	CDC/NPCR-CER	1372

Cancer Site

Breast, Colorectal, CML

Description

See description information listed for Chemo 1 Start Date in this data dictionary (CDC Comparative Effectiveness Research Project Data Dictionary for Non-NAACCR Standard Data Items).

Note: If there is more than one chemotherapy agent planned, the order in which they are entered as agent 1, agent 2, or agent 3, etc., is unimportant as long as all of the agent's information is consistently entered in the same order across all chemotherapy fields (i.e., the same chemo agent is entered as agent 1 across NSC, chemo number doses, chemo total dose, and chemo date fields).

Coding

See coding information listed for Chemo 1 Start Date in this data dictionary (CDC Comparative Effectiveness Research Project Data Dictionary for Non-NAACCR Standard Data Items).

Section: Treatment – Chemotherapy
Chemotherapy 4 Start Date Flag
(Item # 9834)

Chemo 4 Start Date Flag

Alternate Name	Item #	Length	Source of Standard	Column #
Chemo4StartDateFlag	9834	2	CDC/NPCR-CER	1380

Cancer Site

Breast, Colorectal, CML

Description

This flag explains why no appropriate value is in the field, Chemo 4 Start Date [9824].

Rationale

Prior to *NAACCR Standards for Cancer Registries, Volume II: Data Standards and Data Dictionary, Fifteenth Edition, Version 12* (through 2009 diagnosis), date fields included codes that provided information other than dates. As part of an initiative to standardize date fields, new fields were introduced to accommodate non-date information that had previously been transmitted in date fields. The non-standard data items for the CDC/NPCR-CER project dates fields have been designed to follow the model set by the NAACCR standards.

Codes (see Appendix H of *NAACCR Standards for Cancer Registries, Volume II: Data Standards and Data Dictionary, Fifteenth Edition, Version 12*, for the complete Flavors of Null table, which includes the NAACCR codes, HL7 codes and definitions).

- 10 No information whatsoever can be inferred from this exceptional value (e.g., unknown if any chemotherapy agent administered)
- 11 No proper value is applicable in this context (e.g., no chemotherapy agent administered)
- 12 A proper value is applicable but not known. This event occurred, but the date is unknown (e.g., chemotherapy administered but date is unknown).
- 15 Information is not available at this time, but it is expected that it will be available later (e.g., chemotherapy is planned as part of the first course of therapy, but had not been started at the time of the most recent follow up).
- Blank A valid date value is provided in item Chemo 4 Start Date [9824], or the date was not expected to have been transmitted

Comment: This is consistent with part of the initiative of the transformation from the old NAACCR date standards to interoperable dates.

If the agent is given via a prescription to be taken at home and/or self-administered, the chemotherapy start date should be left blank and the corresponding date flag should be coded "12." (note added May 2011)

Section: Treatment – Chemotherapy
Chemotherapy 5 Start Date
(Item # 9825)

Chemo 5 Start Date

Alternate Name	Item #	Length	Source of Standard	Column #
Chemo5StartDate	9825	8	CDC/NPCR-CER	1650

Cancer Site

Breast, Colorectal, CML

Description

See description information listed for Chemo 1 Start Date in this data dictionary (CDC Comparative Effectiveness Research Project Data Dictionary for Non-NAACCR Standard Data Items).

Note: If there is more than one chemotherapy agent planned, the order in which they are entered as agent 1, agent 2, or agent 3, etc., is unimportant as long as all of the agent's information is consistently entered in the same order across all chemotherapy fields (i.e., the same chemo agent is entered as agent 1 across NSC, chemo number doses, chemo total dose, and chemo date fields).

Coding

See coding information listed for Chemo 1 Start Date in this data dictionary (CDC Comparative Effectiveness Research Project Data Dictionary for Non-NAACCR Standard Data Items).

Section: Treatment – Chemotherapy
Chemotherapy 5 Start Date Flag
(Item # 9835)

Chemo 5 Start Date Flag

Alternate Name	Item #	Length	Source of Standard	Column #
Chemo5StartDateFlag	9835	2	CDC/NPCR-CER	1658

Cancer Site

Breast, Colorectal, CML

Description

This flag explains why no appropriate value is in the field, Chemo 5 Start Date [9825].

Rationale

Prior to *NAACCR Standards for Cancer Registries, Volume II: Data Standards and Data Dictionary, Fifteenth Edition, Version 12* (through 2009 diagnosis), date fields included codes that provided information other than dates. As part of an initiative to standardize date fields, new fields were introduced to accommodate non-date information that had previously been transmitted in date fields. The non-standard data items for the CDC/NPCR-CER project dates fields have been designed to follow the model set by the NAACCR standards.

Codes (see Appendix H of *NAACCR Standards for Cancer Registries, Volume II: Data Standards and Data Dictionary, Fifteenth Edition, Version 12*, for the complete Flavors of Null table, which includes the NAACCR codes, HL7 codes and definitions).

- 10 No information whatsoever can be inferred from this exceptional value (e.g., unknown if any chemotherapy agent administered)
- 11 No proper value is applicable in this context (e.g., no chemotherapy agent administered)
- 12 A proper value is applicable but not known. This event occurred, but the date is unknown (e.g., chemotherapy administered but date is unknown).
- 15 Information is not available at this time, but it is expected that it will be available later (e.g., chemotherapy is planned as part of the first course of therapy, but had not been started at the time of the most recent follow up).
- Blank A valid date value is provided in item Chemo 5 Start Date [9825], or the date was not expected to have been transmitted

Comment: This is consistent with part of the initiative of the transformation from the old NAACCR date standards to interoperable dates.

If the agent is given via a prescription to be taken at home and/or self-administered, the chemotherapy start date should be left blank and the corresponding date flag should be coded "12." (note added May 2011)

Section: Treatment – Chemotherapy
Chemotherapy 6 Start Date
(Item # 9826)

Chemo 6 Start Date

Alternate Name	Item #	Length	Source of Standard	Column #
Chemo6StartDate	9826	8	CDC/NPCR-CER	1696

Cancer Site

Breast, Colorectal, CML

Description

See description information listed for Chemo 1 Start Date in this data dictionary (CDC Comparative Effectiveness Research Project Data Dictionary for Non-NAACCR Standard Data Items).

Note: If there is more than one chemotherapy agent planned, the order in which they are entered as agent 1, agent 2, or agent 3, etc., is unimportant as long as all of the agent's information is consistently entered in the same order across all chemotherapy fields (i.e., the same chemo agent is entered as agent 1 across NSC, chemo number doses, chemo total dose, and chemo date fields).

Coding

See coding information listed for Chemo 1 Start Date in this data dictionary (CDC Comparative Effectiveness Research Project Data Dictionary for Non-NAACCR Standard Data Items).

Section: Treatment – Chemotherapy
Chemotherapy 6 Start Date Flag
(Item # 9836)

Chemo 6 Start Date Flag

Alternate Name	Item #	Length	Source of Standard	Column #
Chemo6StartDateFlag	9836	2	CDC/NPCR-CER	1704

Cancer Site

Breast, Colorectal, CML

Description

This flag explains why no appropriate value is in the field, Chemo 6 Start Date [9826].

Rationale

Prior to *NAACCR Standards for Cancer Registries, Volume II: Data Standards and Data Dictionary, Fifteenth Edition, Version 12* (through 2009 diagnosis), date fields included codes that provided information other than dates. As part of an initiative to standardize date fields, new fields were introduced to accommodate non-date information that had previously been transmitted in date fields. The non-standard data items for the CDC/NPCR-CER project dates fields have been designed to follow the model set by the NAACCR standards.

Codes (see Appendix H of *NAACCR Standards for Cancer Registries, Volume II: Data Standards and Data Dictionary, Fifteenth Edition, Version 12*, for the complete Flavors of Null table, which includes the NAACCR codes, HL7 codes and definitions).

- 10 No information whatsoever can be inferred from this exceptional value (e.g., unknown if any chemotherapy agent administered)
- 11 No proper value is applicable in this context (e.g., no chemotherapy agent administered)
- 12 A proper value is applicable but not known. This event occurred, but the date is unknown (e.g., chemotherapy administered but date is unknown).
- 15 Information is not available at this time, but it is expected that it will be available later (e.g., chemotherapy is planned as part of the first course of therapy, but had not been started at the time of the most recent follow up).
- Blank A valid date value is provided in item Chemo 6 Start Date [9826], or the date was not expected to have been transmitted

Comment: This is consistent with part of the initiative of the transformation from the old NAACCR date standards to interoperable dates.

If the agent is given via a prescription to be taken at home and/or self-administered, the chemotherapy start date should be left blank and the corresponding date flag should be coded "12." (note added May 2011)

Section: Treatment – Chemotherapy
Chemotherapy 1 End Date
(Item # 9841)

Chemo 1 End Date

Alternate Name	Item #	Length	Source of Standard	Column #
Chemo1EndDate	9841	8	CDC/NPCR-CER	840

Cancer Site

Breast, Colorectal, CML

Description

For the first chemotherapy agent, this item records the date for the last day of the last cycle that the patient received chemotherapy **as all or part of the first course** of treatment at any facility.

Patient’s medical records and available pharmacy data sets should be included as potential sources for obtaining this data.

Note: If there is more than one chemotherapy agent planned, the order in which they are entered as agent 1, agent 2, or agent 3, etc., is unimportant as long as all of the agent’s information is consistently entered in the same order across all chemotherapy fields (i.e., the same chemo agent is entered as agent 1 across NSC, chemo number doses, chemo total dose, and chemo date fields).

Coding

Record the last date that the patient received chemotherapy **as all or part of the first course** of treatment

See *NAACCR Standards for Cancer Registries, Volume II: Data Standards and Data Dictionary, Fifteenth Edition, page 97* for date format.

If the agent is given via a prescription to be taken at home and/or self-administered, the chemotherapy end date should be left blank and the corresponding date flag should be coded “12.” (note added May 2011)

Example:

Patient’s first course of therapy is consistent with the FLOX treatment protocol for stage II and III colon cancer. FLOX consists of FULV regimen (5-FU, 500 mg/m² iv bolus weekly x 6; LV, 500 mg/m² iv weekly x 6, each 8 week cycle x 3) with oxaliplatin 85 mg/m² iv administered on weeks 1, 3, and 5 of each 8 week cycle x 3. **Patient’s first treatment was on May 24, 2010.**

Patient became too ill to finish third cycle (as planned), and missed the last two doses of 5-FU and LV, and the last dose of oxaliplatin. Last day chemotherapy

administered was October 4, 2010 for 5-FU and LV (patient missed October 11 and 18 planned treatments) and September 27 for oxaliplatin (patient missed October 11 planned treatment). See chart for full listing of how dates correspond to 3 cycles, 8 weeks each:

Cycle 1: Week 1 (Day 1): May 24, 2010 Start 5-FU, LV; oxaliplatin
Week 2 (Day 8): May 31, 2010 Continue 5-FU, LV
Week 3 (Day 15): June 7, 2010 Continue 5-FU, LV; oxaliplatin
Week 4 (Day 22): June 14, 2010 Continue 5-FU, LV
Week 5 (Day 29): June 21, 2010 Continue 5-FU, LV; oxaliplatin
Week 6 (Day 36): June 28, 2010 Continue 5-FU, LV
Week 7 (Day 43): July 5, 2010 No chemo agents scheduled
Week 8 (Day 50): July 12, 2010 No chemo agents scheduled

Cycle 2: Week 1 (Day 1): July 19, 2010 Start 5-FU, LV; oxaliplatin
Week 2 (Day 8): July 26, 2010 Continue 5-FU, LV
Week 3 (Day 15): August 2, 2010 Continue 5-FU, LV; oxaliplatin
Week 4 (Day 22): August 9, 2010 Continue 5-FU, LV
Week 5 (Day 29): August 16, 2010 Continue 5-FU, LV; oxaliplatin
Week 6 (Day 36): August 23, 2010 Continue 5-FU, LV
Week 7 (Day 43): August 30, 2010 No chemo agents scheduled
Week 8 (Day 50): September 6, 2010 No chemo agents scheduled

Cycle 3: Week 1: September 13, 2010 Start 5-FU, LV; oxaliplatin
Week 2: September 20, 2010 Continue 5-FU, LV
Week 3: September 27, 2010 Continue 5-FU, LV; oxaliplatin
Week 4: October 4, 2010 Continue 5-FU, LV
Week 5: October 11, 2010 Continue 5-FU, LV; oxaliplatin -- Patient became too ill to finish third cycle and missed this treatment
Week 6: October 18, 2010 Continue 5-FU, LV -- Patient became too ill to finish third cycle and missed this treatment
Week 7: October 25, 2010 No chemo agents scheduled
Week 8: November 1, 2010 No chemo agents scheduled

In the above example, for this variable, the relevant coding would be:

Chemotherapy Agent #1 End Date is 20101004

Chemotherapy Agent #2 End Date is 20100927

Chemotherapy Agent #3, #4, #5, and #6 End Date is Blank

Section: Treatment – Chemotherapy

Chemotherapy 1 End Date Flag

(Item # 9851)

Chemo 1 End Date Flag

Alternate Name	Item #	Length	Source of Standard	Column #
Chemo1EndDateFlag	9851	2	CDC/NPCR-CER	848

Cancer Site

Breast, Colorectal, CML

Description

This flag explains why no appropriate value is in the field, Chemo 1 End Date [9841].

Rationale

Prior to *NAACCR Standards for Cancer Registries, Volume II: Data Standards and Data Dictionary, Fifteenth Edition, Version 12* (through 2009 diagnosis), date fields included codes that provided information other than dates. As part of an initiative to standardize date fields, new fields were introduced to accommodate non-date information that had previously been transmitted in date fields. The non-standard data items for the CDC/NPCR-CER project dates fields have been designed to follow the model set by the NAACCR standards.

Codes (see Appendix H of *NAACCR Standards for Cancer Registries, Volume II: Data Standards and Data Dictionary, Fifteenth Edition, Version 12*, for the complete Flavors of Null table, which includes the NAACCR codes, HL7 codes and definitions).

- 10 No information whatsoever can be inferred from this exceptional value (e.g., unknown if any chemotherapy agent administered)
- 11 No proper value is applicable in this context (e.g., no chemotherapy agent administered)
- 12 A proper value is applicable but not known. This event occurred, but the date is unknown (e.g., chemotherapy administered but date is unknown).
- 15 Information is not available at this time, but it is expected that it will be available later (e.g., chemotherapy is planned as part of the first course of therapy, but had not been started at the time of the most recent follow up).
- Blank A valid date value is provided in item Chemo 1 End Date [9841], or the date was not expected to have been transmitted

Comment: This is consistent with part of the initiative of the transformation from the old NAACCR date standards to interoperable dates.

If the agent is given via a prescription to be taken at home and/or self-administered, the chemotherapy end date should be left blank and the corresponding date flag should be coded "12." (note added May 2011)

Section: Treatment – Chemotherapy
Chemotherapy 2 End Date
(Item # 9842)

Chemo 2 End Date

Alternate Name	Item #	Length	Source of Standard	Column #
Chemo2EndDate	9842	8	CDC/NPCR-CER	886

Cancer Site

Breast, Colorectal, CML

Description

See description information listed for Chemo 1 End Date in this data dictionary (CDC Comparative Effectiveness Research Project Data Dictionary for Non-NAACCR Standard Data Items).

Note: If there is more than one chemotherapy agent planned, the order in which they are entered as agent 1, agent 2, or agent 3, etc., is unimportant as long as all of the agent's information is consistently entered in the same order across all chemotherapy fields (i.e., the same chemo agent is entered as agent 1 across NSC, chemo number doses, chemo total dose, and chemo date fields).

Coding

See coding information listed for Chemo 1 End Date in this data dictionary (CDC Comparative Effectiveness Research Project Data Dictionary for Non-NAACCR Standard Data Items).

Section: Treatment – Chemotherapy
Chemotherapy 2 End Date Flag
(Item # 9852)

Chemo 2 End Date Flag

Alternate Name	Item #	Length	Source of Standard	Column #
Chemo2EndDateFlag	9852	2	CDC/NPCR-CER	894

Cancer Site

Breast, Colorectal, CML

Description

This flag explains why no appropriate value is in the field, Chemo 2 End Date [9842].

Rationale

Prior to *NAACCR Standards for Cancer Registries, Volume II: Data Standards and Data Dictionary, Fifteenth Edition, Version 12* (through 2009 diagnosis), date fields included codes that provided information other than dates. As part of an initiative to standardize date fields, new fields were introduced to accommodate non-date information that had previously been transmitted in date fields. The non-standard data items for the CDC/NPCR-CER project dates fields have been designed to follow the model set by the NAACCR standards.

Codes (see Appendix H of *NAACCR Standards for Cancer Registries, Volume II: Data Standards and Data Dictionary, Fifteenth Edition, Version 12*, for the complete Flavors of Null table, which includes the NAACCR codes, HL7 codes and definitions).

- 10 No information whatsoever can be inferred from this exceptional value (e.g., unknown if any chemotherapy agent administered)
- 11 No proper value is applicable in this context (e.g., no chemotherapy agent administered)
- 12 A proper value is applicable but not known. This event occurred, but the date is unknown (e.g., chemotherapy administered but date is unknown).
- 15 Information is not available at this time, but it is expected that it will be available later (e.g., chemotherapy is planned as part of the first course of therapy, but had not been started at the time of the most recent follow up).
- Blank A valid date value is provided in item Chemo 2 End Date [9842], or the date was not expected to have been transmitted

Comment: This is consistent with part of the initiative of the transformation from the old NAACCR date standards to interoperable dates.

If the agent is given via a prescription to be taken at home and/or self-administered, the chemotherapy end date should be left blank and the corresponding date flag should be coded "12." (note added May 2011)

Section: Treatment – Chemotherapy
Chemotherapy 3 End Date
(Item # 9843)

Chemo 3 End Date

Alternate Name	Item #	Length	Source of Standard	Column #
Chemo3EndDate	9843	8	CDC/NPCR-CER	1336

Cancer Site

Breast, Colorectal, CML

Description

See description information listed for Chemo 1 End Date in this data dictionary (CDC Comparative Effectiveness Research Project Data Dictionary for Non-NAACCR Standard Data Items).

Note: If there is more than one chemotherapy agent planned, the order in which they are entered as agent 1, agent 2, or agent 3, etc., is unimportant as long as all of the agent's information is consistently entered in the same order across all chemotherapy fields (i.e., the same chemo agent is entered as agent 1 across NSC, chemo number doses, chemo total dose, and chemo date fields).

Coding

See coding information listed for Chemo 1 End Date in this data dictionary (CDC Comparative Effectiveness Research Project Data Dictionary for Non-NAACCR Standard Data Items).

Section: Treatment – Chemotherapy
Chemotherapy 3 End Date Flag
(Item # 9853)

Chemo 3 End Date Flag

Alternate Name	Item #	Length	Source of Standard	Column #
Chemo3EndDateFlag	9853	2	CDC/NPCR-CER	1344

Cancer Site

Breast, Colorectal, CML

Description

This flag explains why no appropriate value is in the field, Chemo 3 End Date [9843].

Rationale

Prior to *NAACCR Standards for Cancer Registries, Volume II: Data Standards and Data Dictionary, Fifteenth Edition, Version 12* (through 2009 diagnosis), date fields included codes that provided information other than dates. As part of an initiative to standardize date fields, new fields were introduced to accommodate non-date information that had previously been transmitted in date fields. The non-standard data items for the CDC/NPCR-CER project dates fields have been designed to follow the model set by the NAACCR standards.

Codes (see Appendix H of *NAACCR Standards for Cancer Registries, Volume II: Data Standards and Data Dictionary, Fifteenth Edition, Version 12*, for the complete Flavors of Null table, which includes the NAACCR codes, HL7 codes and definitions).

- 10 No information whatsoever can be inferred from this exceptional value (e.g., unknown if any chemotherapy agent administered)
- 11 No proper value is applicable in this context (e.g., no chemotherapy agent administered)
- 12 A proper value is applicable but not known. This event occurred, but the date is unknown (e.g., chemotherapy administered but date is unknown).
- 15 Information is not available at this time, but it is expected that it will be available later (e.g., chemotherapy is planned as part of the first course of therapy, but had not been started at the time of the most recent follow up).
- Blank A valid date value is provided in item Chemo 3 End Date [9843], or the date was not expected to have been transmitted

Comment: This is consistent with part of the initiative of the transformation from the old NAACCR date standards to interoperable dates.

If the agent is given via a prescription to be taken at home and/or self-administered, the chemotherapy end date should be left blank and the corresponding date flag should be coded "12." (note added May 2011)

Section: Treatment – Chemotherapy
Chemotherapy 4 End Date
(Item # 9844)

Chemo 4 End Date

Alternate Name	Item #	Length	Source of Standard	Column #
Chemo4EndDate	9844	8	CDC/NPCR-CER	1382

Cancer Site

Breast, Colorectal, CML

Description

See description information listed for Chemo 1 End Date in this data dictionary (CDC Comparative Effectiveness Research Project Data Dictionary for Non-NAACCR Standard Data Items).

Note: If there is more than one chemotherapy agent planned, the order in which they are entered as agent 1, agent 2, or agent 3, etc., is unimportant as long as all of the agent's information is consistently entered in the same order across all chemotherapy fields (i.e., the same chemo agent is entered as agent 1 across NSC, chemo number doses, chemo total dose, and chemo date fields).

Coding

See coding information listed for Chemo 1 End Date in this data dictionary (CDC Comparative Effectiveness Research Project Data Dictionary for Non-NAACCR Standard Data Items).

Section: Treatment – Chemotherapy
Chemotherapy 4 End Date Flag
(Item # 9854)

Chemo 4 End Date Flag

Alternate Name	Item #	Length	Source of Standard	Column #
Chemo4EndDateFlag	9854	2	CDC/NPCR-CER	1390

Cancer Site

Breast, Colorectal, CML

Description

This flag explains why no appropriate value is in the field, Chemo 4 End Date [9844].

Rationale

Prior to *NAACCR Standards for Cancer Registries, Volume II: Data Standards and Data Dictionary, Fifteenth Edition, Version 12* (through 2009 diagnosis), date fields included codes that provided information other than dates. As part of an initiative to standardize date fields, new fields were introduced to accommodate non-date information that had previously been transmitted in date fields. The non-standard data items for the CDC/NPCR-CER project dates fields have been designed to follow the model set by the NAACCR standards.

Codes (see Appendix H of *NAACCR Standards for Cancer Registries, Volume II: Data Standards and Data Dictionary, Fifteenth Edition, Version 12*, for the complete Flavors of Null table, which includes the NAACCR codes, HL7 codes and definitions).

- 10 No information whatsoever can be inferred from this exceptional value (e.g., unknown if any chemotherapy agent administered)
- 11 No proper value is applicable in this context (e.g., no chemotherapy agent administered)
- 12 A proper value is applicable but not known. This event occurred, but the date is unknown (e.g., chemotherapy administered but date is unknown).
- 15 Information is not available at this time, but it is expected that it will be available later (e.g., chemotherapy is planned as part of the first course of therapy, but had not been started at the time of the most recent follow up).
- Blank A valid date value is provided in item Chemo 4 End Date [9844], or the date was not expected to have been transmitted

Comment: This is consistent with part of the initiative of the transformation from the old NAACCR date standards to interoperable dates.

If the agent is given via a prescription to be taken at home and/or self-administered, the chemotherapy end date should be left blank and the corresponding date flag should be coded "12." (note added May 2011)

Section: Treatment – Chemotherapy
Chemotherapy 5 End Date
(Item # 9845)

Chemo 5 End Date

Alternate Name	Item #	Length	Source of Standard	Column #
Chemo5EndDate	9845	8	CDC/NPCR-CER	1660

Cancer Site

Breast, Colorectal, CML

Description

See description information listed for Chemo 1 End Date in this data dictionary (CDC Comparative Effectiveness Research Project Data Dictionary for Non-NAACCR Standard Data Items).

Note: If there is more than one chemotherapy agent planned, the order in which they are entered as agent 1, agent 2, or agent 3, etc., is unimportant as long as all of the agent's information is consistently entered in the same order across all chemotherapy fields (i.e., the same chemo agent is entered as agent 1 across NSC, chemo number doses, chemo total dose, and chemo date fields).

Coding

See coding information listed for Chemo 1 End Date in this data dictionary (CDC Comparative Effectiveness Research Project Data Dictionary for Non-NAACCR Standard Data Items).

Section: Treatment – Chemotherapy
Chemotherapy 5 End Date Flag
(Item # 9855)

Chemo 5 End Date Flag

Alternate Name	Item #	Length	Source of Standard	Column #
Chemo5EndDateFlag	9855	2	CDC/NPCR-CER	1668

Cancer Site

Breast, Colorectal, CML

Description

This flag explains why no appropriate value is in the field, Chemo 5 End Date [9845].

Rationale

Prior to *NAACCR Standards for Cancer Registries, Volume II: Data Standards and Data Dictionary, Fifteenth Edition, Version 12* (through 2009 diagnosis), date fields included codes that provided information other than dates. As part of an initiative to standardize date fields, new fields were introduced to accommodate non-date information that had previously been transmitted in date fields. The non-standard data items for the CDC/NPCR-CER project dates fields have been designed to follow the model set by the NAACCR standards.

Codes (see Appendix H of *NAACCR Standards for Cancer Registries, Volume II: Data Standards and Data Dictionary, Fifteenth Edition, Version 12*, for the complete Flavors of Null table, which includes the NAACCR codes, HL7 codes and definitions).

- 10 No information whatsoever can be inferred from this exceptional value (e.g., unknown if any chemotherapy agent administered)
- 11 No proper value is applicable in this context (e.g., no chemotherapy agent administered)
- 12 A proper value is applicable but not known. This event occurred, but the date is unknown (e.g., chemotherapy administered but date is unknown).
- 15 Information is not available at this time, but it is expected that it will be available later (e.g., chemotherapy is planned as part of the first course of therapy, but had not been started at the time of the most recent follow up).
- Blank A valid date value is provided in item Chemo 5 End Date [9845], or the date was not expected to have been transmitted

Comment: This is consistent with part of the initiative of the transformation from the old NAACCR date standards to interoperable dates.

If the agent is given via a prescription to be taken at home and/or self-administered, the chemotherapy end date should be left blank and the corresponding date flag should be coded "12." (note added May 2011)

Section: Treatment – Chemotherapy
Chemotherapy 6 End Date
(Item # 9846)

Chemo 6 End Date

Alternate Name	Item #	Length	Source of Standard	Column #
Chemo6EndDate	9846	8	CDC/NPCR-CER	1706

Cancer Site

Breast, Colorectal, CML

Description

See description information listed for Chemo 1 End Date in this data dictionary (CDC Comparative Effectiveness Research Project Data Dictionary for Non-NAACCR Standard Data Items).

Note: If there is more than one chemotherapy agent planned, the order in which they are entered as agent 1, agent 2, or agent 3, etc., is unimportant as long as all of the agent's information is consistently entered in the same order across all chemotherapy fields (i.e., the same chemo agent is entered as agent 1 across NSC, chemo number doses, chemo total dose, and chemo date fields).

Coding

See coding information listed for Chemo 1 End Date in this data dictionary (CDC Comparative Effectiveness Research Project Data Dictionary for Non-NAACCR Standard Data Items).

Section: Treatment – Chemotherapy
Chemotherapy 6 End Date Flag
(Item # 9856)

Chemo 6 End Date Flag

Alternate Name	Item #	Length	Source of Standard	Column #
Chemo6EndDateFlag	9856	2	CDC/NPCR-CER	1714

Cancer Site

Breast, Colorectal, CML

Description

This flag explains why no appropriate value is in the field, Chemo 6 End Date [9846].

Rationale

Prior to *NAACCR Standards for Cancer Registries, Volume II: Data Standards and Data Dictionary, Fifteenth Edition, Version 12* (through 2009 diagnosis), date fields included codes that provided information other than dates. As part of an initiative to standardize date fields, new fields were introduced to accommodate non-date information that had previously been transmitted in date fields. The non-standard data items for the CDC/NPCR-CER project dates fields have been designed to follow the model set by the NAACCR standards.

Codes (see Appendix H of *NAACCR Standards for Cancer Registries, Volume II: Data Standards and Data Dictionary, Fifteenth Edition, Version 12*, for the complete Flavors of Null table, which includes the NAACCR codes, HL7 codes and definitions).

- 10 No information whatsoever can be inferred from this exceptional value (e.g., unknown if any chemotherapy agent administered)
- 11 No proper value is applicable in this context (e.g., no chemotherapy agent administered)
- 12 A proper value is applicable but not known. This event occurred, but the date is unknown (e.g., chemotherapy administered but date is unknown).
- 15 Information is not available at this time, but it is expected that it will be available later (e.g., chemotherapy is planned as part of the first course of therapy, but had not been started at the time of the most recent follow up).
- Blank A valid date value is provided in item Chemo 6 End Date [9846], or the date was not expected to have been transmitted

Comment: This is consistent with part of the initiative of the transformation from the old NAACCR date standards to interoperable dates.

If the agent is given via a prescription to be taken at home and/or self-administered, the chemotherapy end date should be left blank and the corresponding date flag should be coded "12." (note added May 2011)

Section: Treatment – Chemotherapy
Chemotherapy Completion Status
(Item # 9859)

Chemotherapy Completion Status

Alternate Name	Item #	Length	Source of Standard	Column #
ChemoCompletionStatus	9859	1	CDC/NPCR-CER	1716

Cancer Site

Breast, Colorectal, CML

Description

This data item is used to code the completion status of chemotherapy for the first course of treatment. The chemotherapy must be part of the **first course of treatment**. Chemotherapy not complete includes only the situation that chemotherapy was terminated prematurely.

Patient’s medical records and available pharmacy data sets should be included as potential sources for obtaining this data.

Coding

Code indicating whether or not the patient’s chemo therapy was completed as outlined in the initial treatment plan.

Codes

- 0 No chemo treatment
- 1 Treatment completed as planned
- 2 Chemo not completed as planned, patient health/complications
- 3 Chemo not completed as planned, patient expired
- 4 Chemo not completed as planned, patient/family choice
- 5 Chemo not completed as planned, cytopenia
- 6 Chemo not completed as planned, other reason
- 7 Chemo treatment extends beyond the end of data collection for this project
- 8 Chemotherapy administered, unknown if completed
- 9 Unknown if Chemo therapy given or not required for this primary site/histology

If the agent is given via a prescription and/or self-administered, the chemotherapy completion status should be coded “8.” For example, Gleevec should be coded “8.” (note added May 2011)

Section: Treatment – Chemotherapy
Granulocyte CSF Status
(Item # 9880)

GranulocyteCSF Status

Alternate Name	Item #	Length	Source of Standard	Column #
GCSFStatus	9880	1	CDC/NPCR-CER	2074

Cancer Site

Breast, Colorectal, CML

Description

This data item is used to code if the patient was given Granulocyte-Growth Factors/Cytokines (G-CSF) agents during the twelve months after diagnosis.

Patient’s medical records and available pharmacy data sets should be included as potential sources for obtaining this data.

SEER*Rx allows you to look up the treatment category for over 1600 drugs and the individual treatment categories for the drugs in over 700 regimens, including G-CSF agents. The SEER*Rx screen provides information on generic name, brand name, drug category and subcategory. If you are uncertain if the agent is a G-CSF agent, use SEER*Rx to confirm by looking up the agent name.

Three forms of G-CSF are commercially available: filgrastim (Neupogen®), pegfilgrastim (Neulasta®), and lenograstim (Granocyte®).

For additional information and descriptions on growth factors/cytokines for cancer, please use the following website as a reference:

<http://www.cancer.gov/cancertopics/factsheet/Therapy/biological>

Examples of agents that fall into this category are the following:

- Filgrastim (Neupogen®) (brand)
- Pegfilgrastim (Neulasta®) (brand)
- Lenograstim (Granocyte®) (brand)

Coding

Code indicating whether or not the patient received G-CSF agents during the first twelve months of treatment after date of diagnosis.

Codes

- 0 No G-CSF treatment given
- 1 G-CSF treatment was given

- 7 G-CSF treatment prescribed – patient, patient’s family member, or patient’s guardian refused
- 8 G-CSF treatment prescribed, unknown if administered
- 9 Unknown if G-CSF therapy given or not required for this primary site/histology

Section: Treatment – Chemotherapy
Erythrocyte Growth Factor Status
(Item # 9881)

Erythro Growth FactorSta

Alternate Name	Item #	Length	Source of Standard	Column #
EGFStatus	9881	1	CDC/NPCR-CER	2075

Cancer Site

Breast, Colorectal, CML

Description

This data item is used to code if the patient was given Erythrocyte-Growth Factors/Cytokines agents during the twelve months after diagnosis.

Patient’s medical records and available pharmacy data sets should be included as potential sources for obtaining this data.

For additional information and descriptions on growth factors/cytokines for cancer, please use the following website as a reference:

<http://www.cancer.gov/cancertopics/factsheet/Therapy/biological>

Examples of agents that fall into this category are the following:

- Epoetin alfa - Procrit® (brand)
- Darbepoietin alfa - Aranesp® (brand)

Coding

Code indicating whether or not the patient received Erythrocyte-Growth Factors/Cytokines agents during the first twelve months of treatment after date of diagnosis.

Codes

- 0 No Erythrocyte-Growth Factors/Cytokines treatment given
- 1 Erythrocyte-Growth Factors/Cytokines therapy was given
- 7 Erythrocyte-Growth Factors/Cytokines treatment prescribed – patient, patient’s family member, or patient’s guardian refused
- 8 Erythrocyte-Growth Factors/Cytokines treatment prescribed, unknown if administered
- 9 Unknown if Erythrocyte-Growth Factors/Cytokines therapy given or not required for this primary site/histology

**Section: Treatment – Chemotherapy
Thrombocyte Growth Factor Status
(Item # 9882)**

Thrombocyte GrowthFactSta

Alternate Name	Item #	Length	Source of Standard	Column #
TGFStatus	9882	1	CDC/NPCR-CER	2076

Cancer Site

Breast, Colorectal, CML

Description

This data item is used to code if the patient was given Thrombocyte-Growth Factors/Cytokines agents during the twelve months after diagnosis.

Patient’s medical records and available pharmacy data sets should be included as potential sources for obtaining this data.

For additional information and descriptions on growth factors/cytokines for cancer, please use the following website as a reference:

<http://www.cancer.gov/cancertopics/factsheet/Therapy/biological>

An examples of an agent that falls into this category is the following:

- Oprelvekin - Neumega® (brand)

Coding

Code indicating whether or not the patient received Thrombocyte-Growth Factors/Cytokines agents during the first twelve months of treatment after date of diagnosis.

Codes

- 0 No Thrombocyte-Growth Factors/Cytokines treatment given
- 1 Thrombocyte-Growth Factors/Cytokines treatment was given
- 7 Thrombocyte-Growth Factors/Cytokines treatment prescribed – patient, patient’s family member, or patient’s guardian refused
- 8 Thrombocyte-Growth Factors/Cytokines treatment prescribed, unknown if administered
- 9 Unknown if Thrombocyte-Growth Factors/Cytokines therapy given or not required for this primary site/histology

Section: Treatment – Hormonal Hormone 1 NSC Number (Item # 9861)

Hormone 1 NSC Number

Alternate Name	Item #	Length	Source of Standard	Column #
Hormone1NSC	9861	6	CDC/NPCR-CER	2050

Cancer Site

Breast, Colorectal, CML

Description

NSC number (*see below for description of NSC numbers) for the first hormonal agent administered **or planned** (*added August 2011*) **as all or part of the first course** of treatment at any facility.

Code original agent NSC numbers using the most current SEER*Rx (<http://seer.cancer.gov/tools/seerrx/>). Include treatment given **or planned** (*added August 2011*) at all facilities **as all or part of the first course** of therapy.

SEER*Rx allows you to look up the treatment category for over 1600 drugs and the individual treatment categories for the drugs in over 700 regimens. The SEER*Rx screen provides information on generic name, brand name, NSC number, drug category and subcategory, cancer sites where the drug is used, and other details, including whether or not the drug should be coded as treatment. Patient’s medical records and available pharmacy data sets should be included as potential sources for obtaining this data.

*Please note that the term “NSC” [number] refers to (part of) the acronym of the Cancer Chemotherapy National Service Center (CCNSC)). The NSC number is a National Service Center assigned number from the National Cancer Institute (NCI). This number is assigned to a drug during its investigational phase, prior to the adoption of a United States Adopted Name (USAN). A full list of NSC codes is maintained in SEER*Rx.

Coding

NSC codes should be entered as 6 digit numbers, as found in the SEER*Rx database. If the agent is 5 digits, enter a leading 0 to ensure a 6 digit entry. *If there is more than one hormone agent, the order in which they are entered as agent 1 or agent 2 is unimportant.* **If SEER*Rx lists more than one NSC # for the agent, use the first NSC # listed in SEER*Rx.** (*added July 2011*)

NSC Number (enter the actual number)

- 000000 Hormonal therapy was not planned to be administered OR no additional hormonal therapy agents were planned
- 999998 Hormone therapy was planned, but the agent NSC code is unknown; the code “999998” is a temporary code that registries should use while they contact ICF Macro to obtain a permanent code to enter for agents that do not have SEER*Rx-assigned NSC codes **OR if the record states only that agent was recommended and the patient refused without specifying which agent was recommended (added August 2011)**
- 999999 Unknown if hormonal therapy was planned or not required for this primary site/histology

Example:

If the chart states that patient’s first course of treatment included Tamoxifen abstractor should go to SEER*Rx database and type “tamoxifen” in the “Search for Drug” entry box in the middle of the screen. SEER*Rx will return a screen that displays information on Tamoxifen. Abstractor should look for the corresponding NSC number and enter the NSC number in the data fields using the following pattern:

Hormonal Agent #1 NSC Number would correspond to Tamoxifen (entry = 180973)

Hormonal Agent #2 NSC Number would correspond to “No additional hormonal therapy documented” (entry = 000000)

As noted in the FORDS manual and the SEER manual, when coding hormone:

- Record prednisone as hormonal therapy when administered as one of the treatment agents used in combination with chemotherapy, such as MOPP (mechlorethamine, vincristine, procarbazine, prednisone) or COPP (cyclophosphamide, vincristine, procarbazine, prednisone) whether it affects cancer cells or not.
- Do not code prednisone as hormone therapy when it is administered for reasons other than with chemotherapeutic treatment.
- Do not code hormone therapy used to prolong a patient’s life by controlling symptoms, to alleviate pain or to make the patient more comfortable.

**Section: Treatment – Hormonal
Hormone 2 NSC Number
(Item # 9862)**

Hormone 2 NSC Number

Alternate Name	Item #	Length	Source of Standard	Column #
Hormone2NSC	9862	6	CDC/NPCR-CER	2056

Cancer Site

Breast, Colorectal, CML

Description

See description information listed for Hormone 1 NSC Number in this data dictionary (CDC Comparative Effectiveness Research Project Data Dictionary for Non-NAACCR Standard Data Items).

Coding

See coding information listed for Hormone 1 NSC Number in this data dictionary (CDC Comparative Effectiveness Research Project Data Dictionary for Non-NAACCR Standard Data Items).

**Section: Treatment – Biological Response Modifier
BRM 1 NSC Number
(Item # 9871)**

BRM 1 NSC Number

Alternate Name	Item #	Length	Source of Standard	Column #
BRM1NSC	9871	6	CDC/NPCR-CER	2062

Cancer Site

Breast, Colorectal, CML

Description

NSC number (*see below for description of NSC numbers) for the first BRM agent administered **or planned (added August 2011)** as all or part of the first course of treatment at any facility.

Code original agent NSC numbers using the most current SEER*R_x (<http://seer.cancer.gov/tools/seerrx/>). Include treatment given **or planned (added August 2011)** at all facilities as all or part of the first course of therapy.

SEER*R_x allows you to look up the treatment category for over 1600 drugs and the individual treatment categories for the drugs in over 700 regimens. The SEER*R_x screen provides information on generic name, brand name, NSC number, drug category and subcategory, cancer sites where the drug is used, and other details, including whether or not the drug should be coded as treatment. Patient’s medical records and available pharmacy data sets should be included as potential sources for obtaining this data.

*Please note that the term “NSC” [number] refers to (part of) the acronym of the Cancer Chemotherapy National Service Center (CCNSC)). The NSC number is a National Service Center assigned number from the National Cancer Institute (NCI). This number is assigned to a drug during its investigational phase, prior to the adoption of a United States Adopted Name (USAN). A full list of NSC codes is maintained in SEER*R_x.

Coding

NSC codes should be entered as 6 digit numbers, as found in the SEER*R_x database. If the agent is 5 digits, enter a leading 0 to ensure a 6 digit entry. *If there is more than one BRM agent planned, the order in which they are entered as agent 1 or agent 2 is unimportant.* **If SEER*R_x lists more than one NSC # for the agent, use the first NSC # listed in SEER*R_x.** (added July 2011)

- ##### NSC Number (enter the actual number)
- 000000 BRM therapy was not planned to be administered OR no additional BRM therapy agents were planned
- 777777 Bone marrow transplant, stem cell harvests, or surgical and/or radiation endocrine therapy
- 999998 BRM therapy was planned, but the agent NSC code is unknown; the code “999998” is a temporary code that registries should use while they contact ICF Macro to obtain a permanent code to enter for agents that do not have SEER*Rx-assigned NSC codes **OR if the record states only that agent was recommended and the patient refused without specifying which agent was recommended (added August 2011)**
- 999999 Unknown if BRM therapy was planned or not required for this primary site/histology

Example:

If the chart states that patient’s first course of treatment included diftitox, abstractor should go to SEER*Rx database and first type “diftitox” in the “Search for Drug” entry box in the middle of the screen. SEER*Rx will return a screen that displays information on diftitox. Abstractor should look for the corresponding NSC numbers and enter the NSC numbers in the data fields using the following pattern:

BRM Agent #1 NSC Number would correspond to diftitox (entry = 714744)

BRM Agent #2 NSC Number would be no additional BRM administered (entry = Blank)

If patient received bone marrow transplant, stem cell harvests, or surgical and/or radiation endocrine therapy that do not fit in these parameters, please code 777777

777777 Bone marrow transplant, stem cell harvests, or surgical and/or radiation endocrine therapy

Section: Treatment – Biological Response Modifier
BRM 2 NSC Number
(Item # 9872)

BRM 2 NSC Number

Alternate Name	Item #	Length	Source of Standard	Column #
BRM2NSC	9872	6	SEER-Rx	2068

Cancer Site

Breast, Colorectal, CML

Description

See description information listed for BRM 1 NSC Number in this data dictionary (CDC Comparative Effectiveness Research Project Data Dictionary for Non-NAACCR Standard Data Items).

Coding

See coding information listed for BRM 1 NSC Number in this data dictionary (CDC Comparative Effectiveness Research Project Data Dictionary for Non-NAACCR Standard Data Items).

Section: Subsequent Treatment Reason for Subsequent Treatment (Item # 9920)

Reason Subsequent Rx

Alternate Name	Item #	Length	Source of Standard	Column #
ReasSubsqRx	9920	1	CDC/NPCR-CER	1788

Cancer Site

Required, Breast, Colorectal, CML (*added July 2011*)

NOT collected for all other sites/histologies

Description

This data item is used to code the reason that the patient received subsequent treatment. Subsequent treatment begins after first course is completed, stopped or changed. Please use the following link to access the SEER Program Code Manual for the full definition of first course of treatment.

http://seer.cancer.gov/manuals/2007/SPCSM_2007_maindoc.pdf

Patient's medical records and available pharmacy data sets should be included as potential sources for obtaining this data.

Coding

Code indicating the reason that the patient received subsequent or palliative treatment beyond their first course of therapy.

Codes

- 0 No subsequent or palliative treatment
- 1 Subsequent or palliative treatment due to disease progression*
- 2 Subsequent or palliative treatment due to recurrence of disease*
- 4 Subsequent or palliative treatment due to development of medical condition (e.g., heart failure or liver disease develops in patient)
- 5 Subsequent or palliative treatment due to other reason
- 9 Unknown if subsequent or palliative therapy given or not required for this primary site/histology

For breast, colorectal, and CML cases, please do not leave any cases blank (use "0" if no subsequent or palliative treatment was given or "9" if it is unknown). If codes 1-5 are entered, at least one of the subsequent treatment type fields (i.e., items #9921-9927) must have an entry other than "0" (i.e., no or none) or blank. If item 9920 (above) is coded "0" or "9," items #9921-9927 are permitted to be blank, as appropriate. (added July 2011)

**Note: Usually, the treating physician will note in the patient's medical record explicitly if subsequent treatment is being given as a result of disease progression or disease recurrence. If it is not noted explicitly, please use the following guideline to determine which code applies:*

If disease progresses, the interval between initial treatment and treatment change will be zero. If there is a recurrence, there will be a time interval that passes before new therapy shows up in the record.

Section: Subsequent Treatment
Subsequent Treatment Second Course Date Started
(Item # 1660)

Subsequent Rx 2nd Course Date

Alternate Name	Item #	Length	Source of Standard	Column #
SusqRx2ndDate	1660	8	NAACCR	1724

Cancer Site

As available, Breast, Colorectal, CML

NOT collected for all other sites/histologies

Description

Date of initiation of subsequent treatment.

Patient's medical records and available pharmacy data sets should be included as potential sources for obtaining this data.

Note: This data item is no longer supported by COC (as of January 1, 2003), but is being collected for the purposes of the CER special study.

Coding

See *NAACCR Standards for Cancer Registries, Volume II: Data Standards and Data Dictionary, Fifteenth Edition, page 97 for date format.*

Section: Subsequent Treatment
Subsequent Treatment Second Date Flag CER
(Item # 9955)

Subsq RX 2nd DateFlag CER

Alternate Name	Item #	Length	Source of Standard	Column #
SubsqRX2ndDateFlagCER	9955	2	CDC/NPCR-CER	1862

Cancer Site

As available, Breast, Colorectal, CML
NOT collected for all other sites/histologies

Description

This flag explains why no appropriate value is in the field, Subsq RX 2nd Course Date [1660]. This data item was first available in Volume II Version 12 (effective January 2010).

Rationale

Prior to Version 12 (through 2009 diagnosis), date fields included codes that provided information other than dates. As part of an initiative to standardize date fields, new fields were introduced to accommodate non-date information that had previously been transmitted in date fields.

Codes (see Appendix H for the complete Flavors of Null table, which includes the NAACCR codes, HL7 codes and definitions).

- 10 No information whatsoever can be inferred from this exceptional value (e.g., unknown if any subsequent therapy)
- 11 No proper value is applicable in this context (e.g., no subsequent therapy)
- 12 A proper value is applicable but not known. This event occurred, but the date is unknown (e.g., subsequent therapy given, but date is unknown)
- 15 Information is not available at this time, but it is expected that it will be available later (e.g., subsequent therapy ordered, but has not been administered at the time of the most recent follow up)
- Blank A valid date value is provided in item Subsq RX 2nd Course Date [1660], or the date was not expected to have been transmitted

Comment: This is part of the initiative of the transformation from the old NAACCR date standards to interoperable dates.

Section: Subsequent Treatment
Subsequent Treatment Second Course – Surgery
(Item # 9921)

Subsq Rx 2nd Crs Surg

Alternate Name	Item #	Length	Source of Standard	Column #
SubsqRX2ndSurg	9921	2	CDC/NPCR-CER	1789

Cancer Site

As available, Breast, Colorectal, CML
NOT collected for all other sites/histologies

Description

This variable is used to code the type of surgery given as part of the subsequent course of treatment. Subsequent treatment is defined as: all cancer-directed therapies administered after the first course is complete due to lack of response or disease progression. Therapy administered after the first course is completed, stopped or changed is recorded as subsequent therapy.

Patient’s medical records should be included as potential sources for obtaining this data. Subsequent surgery is a treatment consideration for local, regional or distant recurrence or progression of disease. Subsequent surgery is also a treatment consideration when other planned first course of treatment fails.

Coding

Refer to staging rules to determine if subsequent surgery is local, regional or for distant metastasis. Code “00” for no subsequent surgery.

Codes

- 00 None OR Not applicable (e.g., not required for this primary site/histology) OR Unknown information
- 10 Surgery to local site
- 20 Surgery to regional site/lymph nodes
- 30 Surgery to distant site/lymph nodes
- 90 Surgery, NOS; a subsequent surgical procedure was done, but no information on the type of surgical procedure is provided.

Section: Subsequent Treatment
Subsequent Treatment Second Course – Radiation
(Item #9922)

Subsq Rx 2nd Crs Rad

Alternate Name	Item #	Length	Source of Standard	Column #
SubsqRX2ndRad	9922	2	CDC/NPCR-CER	1791

Cancer Site

As available, Breast, Colorectal, CML
NOT collected for all other sites/histologies

Description

This variable is used to code radiation therapy as subsequent treatment. Subsequent treatment is defined as: all cancer-directed therapies administered after the first course is complete due to lack of response or disease progression. Therapy administered after the first course is completed, stopped or changed is recorded as subsequent therapy.

Patient’s medical records should be included as potential sources for obtaining this data.

Subsequent radiation therapy is a treatment consideration for local, regional or distant recurrence or progression of disease. Subsequent radiation therapy is also a treatment consideration when other planned first course of treatment fails. Subsequent radiation may be administered as part of other subsequent treatments (surgery, chemotherapy, etc).

- Radiation may be localized (at the primary site)
- Radiation may be directed to regional site and/or to regional lymph nodes
- Radiation may be directed to a distant or metastatic site or lymph nodes

Coding

Refer to staging rules to determine if subsequent radiation is for local, regional or distant progression or metastasis. Code “00” if no subsequent radiation.

Codes

- 00 None OR Not applicable (e.g., not required for this primary site/histology)
OR Unknown information
- 10 Local radiation
- 20 Regional radiation
- 30 Distant radiation, NOS **OR other radiation, NOS** (*note: text in red font added June 2011*)
- 31 Bone
- 32 Brain
- 33 Liver
- 34 Lung
- 35 Other distant sites/lymph nodes or more than one distant site

Section: Subsequent Treatment

Subsequent Treatment Second Course – Chemotherapy (Item #9923)

Subsq Rx 2nd Crs Chemo

Alternate Name	Item #	Length	Source of Standard	Column #
SubsqRX2ndChemo	9923	2	CDC/NPCR-CER	1793

Cancer Site

As available, Breast, Colorectal, CML
NOT collected for all other sites/histologies

Description

This variable is used to code for the type of chemotherapy given as part of the subsequent course of treatment. Subsequent treatment is defined as: all cancer-directed therapies administered after the first course is complete due to lack of response or disease progression. Therapy administered after the first course is completed, stopped or changed is recorded as subsequent therapy.

When coding subsequent chemotherapy, note that if the patient has an adverse reaction, the physician may change one of the drugs in a combination regimen. If the replacement drug belongs to the same group as the original drug there is no change in the regimen. If the replacement drug is in a different group than the original drug, code the new regime as subsequent therapy.

Patient's medical records and available pharmacy data sets should be included as potential sources for obtaining this data.

Coding

- Code 00 if no subsequent chemotherapy
- Refer to the *SEER*Rx Interactive Drug Database* (<http://seer.cancer.gov/>) for a list of chemotherapeutic agents.
- If the managing physician changes one of the agents in a combination regimen, and the replacement agent belongs to a different group (chemotherapeutic agents are grouped as alkylating agents, antimetabolites, natural products, or other miscellaneous) than the original agent, the new regimen represents the start of subsequent therapy.

Codes

- 00 None OR Not applicable (e.g., not required for this primary site/histology) OR Unknown information
- 01 Chemotherapy administered as subsequent therapy, but the type and number of agents is not documented in patient record.
- 02 Single-agent chemotherapy administered as subsequent therapy.
- 03 Multiagent chemotherapy administered as subsequent therapy.

Section: Subsequent Treatment

Subsequent Treatment Second Course – Hormone (Item #9924)

Subsq Rx 2ndCrs Horm

Alternate Name	Item #	Length	Source of Standard	Column #
SubsqRX2ndHorm	9924	2	CDC/NPCR-CER	1795

Cancer Site

As available, Breast, Colorectal, CML

NOT collected for all other sites/histologies

Description

This variable is used to code for the type of hormonal therapy given as part of the subsequent course of treatment. Subsequent treatment is defined as: all cancer-directed therapies administered after the first course is complete due to lack of response or disease progression. Therapy administered after the first course is completed, stopped or changed is recorded as subsequent therapy.

Patient's medical records and available pharmacy data sets should be included as potential sources for obtaining this data.

Coding

- Record prednisone as hormonal therapy when administered in combination with chemotherapy, such as MOPP (mechlorethamine, vincristine, procarbazine, prednisone) or COPP (cyclophosphamide, vincristine, procarbazine, prednisone).
- Do not code prednisone as hormone therapy when it is administered for reasons other than chemotherapeutic treatment.
- Tumor involvement or treatment may destroy hormone-producing tissue. Hormone replacement therapy will be given if the hormone is necessary to maintain normal metabolism and body function. Do not code hormone replacement therapy as part of first course therapy.
- Code 00 if hormone therapy was not administered as subsequent treatment.
- Refer to the SEER*Rx Interactive Drug Database (<http://seer.cancer.gov/>) for a list of hormonal agents.

Codes

- 00 None OR Not applicable (e.g., not required for this primary site/histology) OR Unknown information
- 01 Hormone therapy administered as subsequent therapy.

Section: Subsequent Treatment
Subsequent Treatment Second Course – BRM
(Item #9925)

Subsq Rx 2ndCrs BRM

Alternate Name	Item #	Length	Source of Standard	Column #
SubsqRX2ndBRM	9925	2	CDC/NPCR-CER	1797

Cancer Site

As available, Breast, Colorectal, CML
NOT collected for all other sites/histologies

Description

This variable is used to code for the type of biological response modifier therapy (immunotherapy) given as part of the subsequent course of treatment. Subsequent treatment is defined as: all cancer-directed therapies administered after the first course is complete due to lack of response or disease progression. Therapy administered after the first course is completed, stopped or changed is recorded as subsequent therapy.

Patient’s medical records and available pharmacy data sets should be included as potential sources for obtaining this data.

Coding

- Code 00 if immunotherapy was not administered as subsequent treatment
- Refer to the *SEER*Rx Interactive Drug Database* (<http://seer.cancer.gov/>) for a list of immunotherapeutic agents.

Codes

- 00 None OR Not applicable (e.g., not required for this primary site/histology) OR Unknown information
- 01 Immunotherapy administered as subsequent therapy.

Section: Subsequent Treatment
Subsequent Treatment Second Course – Transplant/Endocrine
(Item # 9927)

Subsq Rx 2nd Crs Trans/End

Alternate Name	Item #	Length	Source of Standard	Column #
SubsqRX2ndTransEnd	9927	2	CDC/NPCR-CER	1800

Cancer Site

As available, Breast, Colorectal, CML
NOT collected for all other sites/histologies

Description

This variable is used to code for the type of transplant/endocrine therapy given as part of the subsequent course of treatment. Subsequent treatment is defined as: all cancer-directed therapies administered after the first course is complete due to lack of response or disease progression. Therapy administered after the first course is completed, stopped or changed is recorded as subsequent therapy.

Patient’s medical records and available pharmacy data sets should be included as potential sources for obtaining this data.

Coding

- Bone marrow transplants should be coded as either autologous (bone marrow originally taken from the patient) or allogeneic (bone marrow donated by a person other than the patient). For cases in which the bone marrow transplant was syngeneic (transplanted marrow from an identical twin), the item is coded as allogeneic.
- Stem cell harvests involve the collection of immature blood cells from the patient and the reintroduction by transfusion of the harvested cells following chemotherapy or radiation therapy.
- Endocrine irradiation and/or endocrine surgery are procedures which suppress the naturally occurring hormonal activity of the patient and thus alter or affect the long-term control of the cancer’s growth. These procedures must be bilateral to qualify as endocrine surgery or endocrine radiation. If only one gland is intact at the start of treatment, surgery and/or radiation to that remaining gland qualifies as endocrine surgery or endocrine radiation.
- Code 00 if a subsequent transplant or endocrine procedure was not administered to the patient.

Codes

- 00 None OR Not applicable (e.g., not required for this primary site/histology) OR Unknown information
- 10 A bone marrow transplant procedure was administered, but the type was not specified.
- 11 Bone marrow transplant–autologous.
- 12 Bone marrow transplant–allogeneic.
- 20 Stem cell harvest and infusion. Umbilical cord stem cell transplant.
- 30 Endocrine surgery and/or endocrine radiation therapy.
- 40 Combination of endocrine surgery and/or radiation with a transplant procedure. (Combination of codes 30 and 10, 11, 12, or 20.)

Section: Subsequent Treatment

Subsequent Treatment Second Course – Other (Item #9926)

Subsq Rx 2nd Crs Oth

Alternate Name	Item #	Length	Source of Standard	Column #
SubsqRX2ndOth	9926	1	CDC/NPCR-CER	1799

Cancer Site

As available, Breast, Colorectal, CML

NOT collected for all other sites/histologies

Description

This variable is used to code for the type of other treatment given as part of the subsequent course of treatment. Subsequent treatment is defined as: all cancer-directed therapies administered after the first course is complete due to lack of response or disease progression. Therapy administered after the first course is completed, stopped or changed is recorded as subsequent therapy.

Patient's medical records and available pharmacy data sets should be included as potential sources for obtaining this data.

Coding

- The principal treatment for certain reportable hematopoietic diseases could be supportive care that does not meet the usual definition of treatment that “modifies, controls, removes, or destroys” proliferating cancer tissue.
- Supportive care may include phlebotomy, transfusion, or aspirin. In order to report the hematopoietic cases in which the patient received supportive care, SEER and the Commission on Cancer have agreed to record treatments such as phlebotomy, transfusion, or aspirin as “Other Treatment” (Code 1) for the hematopoietic diseases ONLY. (See instructions for coding in Section One).

Codes

- 0 None -All subsequent cancer treatment was coded in other treatment fields (surgery, radiation, systemic therapy) OR Not applicable (e.g., not required for this primary site/histology) OR Unknown information.
- 1 Other -subsequent treatment that cannot be appropriately assigned to specified treatment data items (surgery, radiation, systemic therapy, hematopoietic cases, such as phlebotomy, transfusion, or aspirin).
- 2 Other–Experimental This code is not defined. It may be used to record participation in institution-based clinical trials.
- 3 Other–Double Blind A patient is involved in a double-blind clinical trial. Code the treatment actually administered when the double-blind trial code is broken.
- 6 Other–Unproven Cancer treatments administered by nonmedical personnel.

Section: Subsequent Treatment – Chemotherapy
Subsequent Treatment Second
Chemotherapy 1 NSC Number
(Item # 9931)

Subsq RX 2nd Chemo 1 NSC

Alternate Name	Item #	Length	Source of Standard	Column #
SubsqRX2ndChemo1NSC	9931	6	CDC/NPCR-CER	1802

Cancer Site

As available, Breast, Colorectal, CML
NOT collected for all other sites/histologies

Description

See description information listed for Chemotherapy 1 NSC Number in this data dictionary (CDC Comparative Effectiveness Research Project Data Dictionary for Non-NAACCR Standard Data Items).

Coding

See coding information listed for Chemotherapy 1 NSC Number in this data dictionary (CDC Comparative Effectiveness Research Project Data Dictionary for Non-NAACCR Standard Data Items).

Section: Subsequent Treatment – Chemotherapy
Subsequent Treatment Second
Chemotherapy 2 NSC Number
(Item # 9932)

Subsq RX 2nd Chemo 2 NSC

Alternate Name	Item #	Length	Source of Standard	Column #
SubsqRX2ndChemo2NSC	9932	6	CDC/NPCR-CER	1808

Cancer Site

As available, Breast, Colorectal, CML
NOT collected for all other sites/histologies

Description

See description information listed for Chemotherapy 1 NSC Number in this data dictionary (CDC Comparative Effectiveness Research Project Data Dictionary for Non-NAACCR Standard Data Items).

Coding

See coding information listed for Chemotherapy 1 NSC Number in this data dictionary (CDC Comparative Effectiveness Research Project Data Dictionary for Non-NAACCR Standard Data Items).

**Section: Subsequent Treatment – Chemotherapy
Subsequent Treatment Second
Chemotherapy 3 NSC Number
(Item # 9933)**

Subsq RX 2nd Chemo 3 NSC

Alternate Name	Item #	Length	Source of Standard	Column #
SubsqRX2ndChemo3NSC	9933	6	CDC/NPCR-CER	1814

Cancer Site

As available, Breast, Colorectal, CML
NOT collected for all other sites/histologies

Description

See description information listed for Chemotherapy 1 NSC Number in this data dictionary (CDC Comparative Effectiveness Research Project Data Dictionary for Non-NAACCR Standard Data Items).

Coding

See coding information listed for Chemotherapy 1 NSC Number in this data dictionary (CDC Comparative Effectiveness Research Project Data Dictionary for Non-NAACCR Standard Data Items).

Section: Subsequent Treatment – Chemotherapy
Subsequent Treatment Second
Chemotherapy 4 NSC Number
(Item # 9934)

Subsq RX 2nd Chemo 4 NSC (*note: Name Corrected June 2011*)

Alternate Name	Item #	Length	Source of Standard	Column #
SubsqRX2ndChemo4NSC	9934	6	CDC/NPCR-CER	1820

Cancer Site

As available, Breast, Colorectal, CML
NOT collected for all other sites/histologies

Description

See description information listed for Chemotherapy 1 NSC Number in this data dictionary (CDC Comparative Effectiveness Research Project Data Dictionary for Non-NAACCR Standard Data Items).

Coding

See coding information listed for Chemotherapy 1 NSC Number in this data dictionary (CDC Comparative Effectiveness Research Project Data Dictionary for Non-NAACCR Standard Data Items).

**Section: Subsequent Treatment – Chemotherapy
Subsequent Treatment Second
Chemotherapy 5 NSC Number
(Item # 9935)**

Subsq RX 2nd Chemo5 NSC

Alternate Name	Item #	Length	Source of Standard	Column #
Subsq2ndChemo5NSC	9935	6	CDC/NPCR-CER	1826

Cancer Site

As available, Breast, Colorectal, CML
NOT collected for all other sites/histologies

Description

See description information listed for Chemotherapy 1 NSC Number in this data dictionary (CDC Comparative Effectiveness Research Project Data Dictionary for Non-NAACCR Standard Data Items).

Coding

See coding information listed for Chemotherapy 1 NSC Number in this data dictionary (CDC Comparative Effectiveness Research Project Data Dictionary for Non-NAACCR Standard Data Items).

Section: Subsequent Treatment – Chemotherapy
Subsequent Treatment Second
Chemotherapy Agent 6 NSC Number
(Item # 9936)

Subsq RX 2nd Chemo6 NSC

Alternate Name	Item #	Length	Source of Standard	Column #
SubsqRX2ndChemo6NSC	9936	6	CDC/NPCR-CER	1832

Cancer Site

As available, Breast, Colorectal, CML
NOT collected for all other sites/histologies

Description

See description information listed for Chemotherapy 1 NSC Number in this data dictionary (CDC Comparative Effectiveness Research Project Data Dictionary for Non-NAACCR Standard Data Items).

Coding

See coding information listed for Chemotherapy 1 NSC Number in this data dictionary (CDC Comparative Effectiveness Research Project Data Dictionary for Non-NAACCR Standard Data Items).

**Section: Subsequent Treatment – Hormone
Subsequent Treatment Second
Hormone 1 NSC Number
(Item # 9941)**

Subsq RX 2nd Horm1 NSC

Alternate Name	Item #	Length	Source of Standard	Column #
SubsqRX2ndHorm1NSC	9941	6	CDC/NPCR-CER	1838

Cancer Site

As available, Breast, Colorectal, CML
NOT collected for all other sites/histologies

Description

See description information listed for Hormone 1 NSC Number in this data dictionary (CDC Comparative Effectiveness Research Project Data Dictionary for Non-NAACCR Standard Data Items).

Coding

See coding information listed for Hormone 1 NSC Number in this data dictionary (CDC Comparative Effectiveness Research Project Data Dictionary for Non-NAACCR Standard Data Items).

**Section: Subsequent Treatment – Hormone
Subsequent Treatment Second
Hormone 2 NSC Number
(Item # 9942)**

Subsq RX 2nd Horm 2 NSC

Alternate Name	Item #	Length	Source of Standard	Column #
SubsqRX2ndHorm2NSC	9942	6	CDC/NPCR-CER	1844

Cancer Site

As available, Breast, Colorectal, CML
NOT collected for all other sites/histologies

Description

See description information listed for Hormone 1 NSC Number in this data dictionary (CDC Comparative Effectiveness Research Project Data Dictionary for Non-NAACCR Standard Data Items).

Coding

See coding information listed for Hormone 1 NSC Number in this data dictionary (CDC Comparative Effectiveness Research Project Data Dictionary for Non-NAACCR Standard Data Items).

Section: Subsequent Treatment – Biological Response Modifier
Subsequent Treatment Second
BRM 1 NSC Number
(Item # 9951)

Subsq RX 2nd BRM 1 NSC

Alternate Name	Item #	Length	Source of Standard	Column #
SubsqRX2ndBRM1NSC	9951	6	CDC/NPCR-CER	1850

Cancer Site

As available, Breast, Colorectal, CML
NOT collected for all other sites/histologies

Description

See description information listed for BRM 1 NSC Number in this data dictionary (CDC Comparative Effectiveness Research Project Data Dictionary for Non-NAACCR Standard Data Items).

Coding

See coding information listed for BRM 1 NSC Number in this data dictionary (CDC Comparative Effectiveness Research Project Data Dictionary for Non-NAACCR Standard Data Items).

Section: Subsequent Treatment – Biological Response Modifier
Subsequent Treatment Second
BRM 2 NSC Number
(Item # 9952)

Subsq RX 2nd BRM 2 NSC

Alternate Name	Item #	Length	Source of Standard	Column #
SubsqRX2ndBRM2NSC	9952	6	CDC/NPCR-CER	1856

Cancer Site

As available, Breast, Colorectal, CML
NOT collected for all other sites/histologies

Description

See description information listed for BRM 1 NSC Number in this data dictionary (CDC Comparative Effectiveness Research Project Data Dictionary for Non-NAACCR Standard Data Items).

Coding

See coding information listed for BRM 1 NSC Number in this data dictionary (CDC Comparative Effectiveness Research Project Data Dictionary for Non-NAACCR Standard Data Items).

Section: Biomarkers – BCR-ABL
BCR-ABL: Cytogenetic
(Item # 9900)

BCR-ABL: Cytogenetic Analysis

Alternate Name	Item #	Length	Source of Standard	Column #
BCRABLCytogenetic	9900	3	CDC/NPCR-CER	1241

Cancer Site

CML

Description

Record the results of the cytogenetic analysis for BCR-ABL t(9;22) (q34;q11) at the time of initial diagnosis. If multiple test results are recorded in the source records, use the results that are closest to the date of diagnosis. This variable refers to all BCR-ABL transcriptions, including BCR-ABL2. Cytogenetic analysis may be used to monitor disease response to therapy and relapse.

Do not record results of this test after initiation of treatment.

Additional information and sample reports can be found at:

<http://www.healthline.com/sw/cs-cml-how-cytogenetic-testing-is-used-for-diagnosis-and-to-monitor-treatment>

<http://www.genzymeogenetics.com/~media/Files/Genetics/PDF/SampleReports/OncologyPathology/sample-report-bcr-abl-mutation-analysis-positive.pdf>

<http://www.genzymeogenetics.com/~media/Files/Genetics/PDF/SampleReports/OncologyPathology/sample-report-bcr-abl-gene-rearrangement-quantitative-rt-pcr-analysis.pdf>

<http://www.genzymeogenetics.com/~media/Files/Genetics/PDF/SampleReports/OncologyPathology/sample-report-chromosome-analysis-cytogenetic-positive.pdf>

Note 1: Other names for this test include: Karyotyping, conventional cytogenetics, Philadelphia chromosome analysis, chromosomal banding analysis

Coding

- 000* Negative result OR
 Not applicable (e.g., information not collected for this case) OR
 Test not done (e.g., test not ordered and was not performed) OR
 Unknown information (e.g., not documented in source record) OR
 OR Test ordered (e.g., results not in source records)
- 010 Positive

*Please note that this variable will be used in combination with the corresponding BCR-ABL related date and date flag variables to further substantiate which reason applies for coding “000” for a given case.

Section: Biomarkers – BCR-ABL
BCR-ABL: Cytogenetic Date
(Item # 9901)

BCR-ABL: Cytogenetic Date

Alternate Name	Item #	Length	Source of Standard	Column #
BCRABLCytogeneticDate	9901	8	CDC/NPCR-CER	1244

Cancer Site

CML

Description

Record the date of the cytogenetic analysis for BCR-ABL t(9;22) (q34;q11) at the time of initial diagnosis. If multiple test results are recorded in the source records, use the date of the test results that are closest to the date of diagnosis. This variable refers to all BCR-ABL transcriptions, including BCR-ABL2. Cytogenetic analysis may be used to monitor disease response to therapy and relapse.

Use the date that the specimen was obtained and sent for analysis and not the report date. Do not record date related to results of this test after initiation of treatment.

Additional information and sample reports can be found at:

<http://www.healthline.com/sw/cs-cml-how-cytogenetic-testing-is-used-for-diagnosis-and-to-monitor-treatment>

<http://www.genzyme genetics.com/~media/Files/Genetics/PDF/SampleReports/OncologyPathology/sample-report-bcr-abl-mutation-analysis-positive.pdf>

<http://www.genzyme genetics.com/~media/Files/Genetics/PDF/SampleReports/OncologyPathology/sample-report-bcr-abl-gene-rearrangement-quantitative-rt-pcr-analysis.pdf>

<http://www.genzyme genetics.com/~media/Files/Genetics/PDF/SampleReports/OncologyPathology/sample-report-chromosome-analysis-cytogenetic-positive.pdf>

Note 1: Other names for this test include: Karyotyping, conventional cytogenetics, Philadelphia chromosome analysis, chromosomal banding analysis

Coding

See NAACCR Standards for Cancer Registries, Volume II: Data Standards and Data Dictionary, Fifteenth Edition, page 97 for date format.

Section: Biomarkers – BCR-ABL
BCR-ABL: Cytogen Date Flag
(Item # 9902)

BCR-ABL: Cytogen Date Flag

Alternate Name	Item #	Length	Source of Standard	Column #
BCRABLCytogenDateFlag	9902	2	CDC/NPCR-CER	1252

Cancer Site

CML

Description

This flag explains why no appropriate value is in the field, BCR-ABL: Cytogenetic Date [9901].

Rationale

Prior to *NAACCR Standards for Cancer Registries, Volume II: Data Standards and Data Dictionary, Fifteenth Edition, Version 12* (through 2009 diagnosis), date fields included codes that provided information other than dates. As part of an initiative to standardize date fields, new fields were introduced to accommodate non-date information that had previously been transmitted in date fields. The non-standard data items for the CDC/NPCR-CER project dates fields have been designed to follow the model set by the NAACCR standards.

Codes (see Appendix H of *NAACCR Standards for Cancer Registries, Volume II: Data Standards and Data Dictionary, Fifteenth Edition, Version 12*, for the complete Flavors of Null table, which includes the NAACCR codes, HL7 codes and definitions).

- 10 No information whatsoever can be inferred from this exceptional value (e.g., unknown if BCR-ABL: Cytogenetic test done)
- 11 No proper value is applicable in this context (e.g., no BCR-ABL: Cytogenetic test done or not applicable)
- 12 A proper value is applicable but not known. This event occurred, but the date is unknown (e.g., BCR-ABL: Cytogenetic test done, but date is unknown)
- 15 Information is not available at this time, but it is expected that it will be available later (e.g., BCR-ABL: Cytogenetic test ordered, but has not been administered at the time of the most recent follow up)
- Blank A valid date value is provided in item BCR-ABL: Cytogenetic Date [9901], or the date was not expected to have been transmitted

Comment: This is consistent with part of the initiative of the transformation from the old NAACCR date standards to interoperable dates.

Section: Biomarkers – BCR-ABL
BCR-ABL: FISH
(Item # 9903)

BCR-ABL: FISH

Alternate Name	Item #	Length	Source of Standard	Column #
BCRABL_FISH	9903	3	CDC/NPCR-CER	1254

Cancer Site

CML

Description

Record the results of only the Fluorescence in Situ Hybridization for BCR-ABL t(9;22) (q34;q11) at the time of initial diagnosis. If multiple test results are recorded in the source records, use the results that are closest to the date of diagnosis. This variable refers to all BCR-ABL transcriptions, including BCR-ABL2.

BCR-ABL FISH may be used to monitor disease response to therapy and relapse.

Do not record results of this test after initiation of treatment.

Additional information and sample reports can be found at:

<http://www.healthline.com/sw/cs-cml-how-cytogenetic-testing-is-used-for-diagnosis-and-to-monitor-treatment>

<http://www.genzymegenetics.com/~media/Files/Genetics/PDF/SampleReports/OncologyPathology/sample-report-bcr-abl-mutation-analysis-positive.pdf>

<http://www.genzymegenetics.com/~media/Files/Genetics/PDF/SampleReports/OncologyPathology/sample-report-bcr-abl-gene-rearrangement-quantitative-rt-pcr-analysis.pdf>

<http://www.genzymegenetics.com/~media/Files/Genetics/PDF/SampleReports/OncologyPathology/sample-report-chromosome-analysis-cytogenetic-positive.pdf>

Coding

- 000* Negative result OR
 Not applicable (e.g., information not collected for this case) OR
 Test not done (e.g., test not ordered and was not performed) OR
 Unknown information (e.g., not documented in source record) OR
 OR Test ordered (e.g., results not in source records)
- 010 Positive

*Please note that this variable will be used in combination with the corresponding BCR-ABL related date and date flag variables to further substantiate which reason applies for coding “000” for a given case.

Section: Biomarkers – BCR-ABL
BCR-ABL: FISHDate
(Item # 9904)

BCR-ABL: FISH Date

Alternate Name	Item #	Length	Source of Standard	Column #
BCRABL_FISHDate	9904	8	CDC/NPCR-CER	1257

Cancer Site

CML

Description

Record the date of only the Fluorescence in Situ Hybridization for BCR-ABL t(9;22) (q34;q11) at the time of initial diagnosis. If multiple test results are recorded in the source records, use the date of the test results that are closest to the date of diagnosis. This variable refers to all BCR-ABL transcriptions, including BCR-ABL2.

BCR-ABL FISH may be used to monitor disease response to therapy and relapse.

Use the date that the specimen was obtained and sent for analysis and not the report date. Do not record results of this test after initiation of treatment.

Additional information and sample reports can be found at:

<http://www.healthline.com/sw/cs-cml-how-cytogenetic-testing-is-used-for-diagnosis-and-to-monitor-treatment>

<http://www.genzymegenetics.com/~media/Files/Genetics/PDF/SampleReports/OncologyPathology/sample-report-bcr-abl-mutation-analysis-positive.pdf>

<http://www.genzymegenetics.com/~media/Files/Genetics/PDF/SampleReports/OncologyPathology/sample-report-bcr-abl-gene-rearrangement-quantitative-rt-pcr-analysis.pdf>

<http://www.genzymegenetics.com/~media/Files/Genetics/PDF/SampleReports/OncologyPathology/sample-report-chromosome-analysis-cytogenetic-positive.pdf>

Coding

See *NAACCR Standards for Cancer Registries, Volume II: Data Standards and Data Dictionary, Fifteenth Edition, page 97* for date format.

Section: Biomarkers – BCR-ABL
BCR-ABL: FISH Date Flag
(Item # 9905)

BCR-ABL: FISH Date Flag

Alternate Name	Item #	Length	Source of Standard	Column #
BCRABLFISHDateFlag	9905	2	CDC/NPCR-CER	1265

Cancer Site

CML

Description

This flag explains why no appropriate value is in the field, BCR-ABL: FISH Date [9904].

Rationale

Prior to *NAACCR Standards for Cancer Registries, Volume II: Data Standards and Data Dictionary, Fifteenth Edition, Version 12* (through 2009 diagnosis), date fields included codes that provided information other than dates. As part of an initiative to standardize date fields, new fields were introduced to accommodate non-date information that had previously been transmitted in date fields. The non-standard data items for the CDC/NPCR-CER project dates fields have been designed to follow the model set by the NAACCR standards.

Codes (see Appendix H of *NAACCR Standards for Cancer Registries, Volume II: Data Standards and Data Dictionary, Fifteenth Edition, Version 12*, for the complete Flavors of Null table, which includes the NAACCR codes, HL7 codes and definitions).

- 10 No information whatsoever can be inferred from this exceptional value (e.g., unknown if BCR-ABL: FSH test done)
- 11 No proper value is applicable in this context (e.g., no BCR-ABL: FISH test done or not applicable)
- 12 A proper value is applicable but not known. This event occurred, but the date is unknown (e.g., BCR-ABL: FISH test done, but date is unknown)
- 15 Information is not available at this time, but it is expected that it will be available later (e.g., BCR-ABL: FISH test ordered, but has not been administered at the time of the most recent follow up)
- Blank A valid date value is provided in item BCR-ABL: FISH Date [9904], or the date was not expected to have been transmitted

Comment: This is consistent with part of the initiative of the transformation from the old NAACCR date standards to interoperable dates.

Section: Biomarkers – BCR-ABL
BCR-ABL: RT-PCR Qualitative
(Item # 9906)

BCR-ABL: RT-PCR Qual

Alternate Name	Item #	Length	Source of Standard	Column #
BCRABL_RTPCRQUAL	9906	3	CDC/NPCR-CER	1267

Cancer Site
CML

Description

Record the results of the *qualitative* Reverse Transcriptase Polymerase Chain Reaction RT-PCR for BCR-ABL t(9;22) (q34;q11) at the time of initial diagnosis. If multiple test results are recorded in the source records, use the results that are closest to the date of diagnosis. This variable refers to all BCR-ABL transcriptions, including BCR-ABL2.

RT-PCR Qualitative may be used to monitor disease response to therapy and relapse.

Do not record results of this test after initiation of treatment.

Additional information and sample reports can be found at:

<http://www.healthline.com/sw/cs-cml-how-cytogenetic-testing-is-used-for-diagnosis-and-to-monitor-treatment>

<http://www.genzymegenetics.com/~media/Files/Genetics/PDF/SampleReports/OncologyPathology/sample-report-bcr-abl-mutation-analysis-positive.pdf>

<http://www.genzymegenetics.com/~media/Files/Genetics/PDF/SampleReports/OncologyPathology/sample-report-bcr-abl-gene-rearrangement-quantitative-rt-pcr-analysis.pdf>

<http://www.genzymegenetics.com/~media/Files/Genetics/PDF/SampleReports/OncologyPathology/sample-report-chromosome-analysis-cytogenetic-positive.pdf>

Coding

- 000* Negative result OR
Not applicable (e.g., information not collected for this case) OR
Test not done (e.g., test not ordered and was not performed) OR
Unknown information (e.g., not documented in source record) OR
OR Test ordered (e.g., results not in source records)
- 010 Positive

*Please note that this variable will be used in combination with the corresponding BCR-ABL related date and date flag variables to further substantiate which reason applies for coding “000” for a given case.

**Section: Biomarkers – BCR-ABL
BCR-ABL: RT-PCR Qual Date
(Item # 9907)**

BCR-ABL: RT-PCR Qual Date

Alternate Name	Item #	Length	Source of Standard	Column #
BCRABL_RTPCRQUALDATE	9907	8	CDC/NPCR-CER	1270

Cancer Site

CML

Description

Record the date of the *qualitative* Reverse Transcriptase Polymerase Chain Reaction RT-PCR for BCR-ABL t(9;22) (q34;q11) at the time of initial diagnosis. If multiple test results are recorded in the source records, use the date of the results that are closest to the date of diagnosis. This variable refers to all BCR-ABL transcriptions, including BCR-ABL2. RT-PCR Qualitative may be used to monitor disease response to therapy and relapse.

Use the date that the specimen was obtained and sent for analysis and not report date. Do not record results of this test after initiation of treatment.

Additional information and sample reports can be found at:

<http://www.healthline.com/sw/cs-cml-how-cytogenetic-testing-is-used-for-diagnosis-and-to-monitor-treatment>

<http://www.genzymegenetics.com/~media/Files/Genetics/PDF/SampleReports/OncologyPathology/sample-report-bcr-abl-mutation-analysis-positive.pdf>

<http://www.genzymegenetics.com/~media/Files/Genetics/PDF/SampleReports/OncologyPathology/sample-report-bcr-abl-gene-rearrangement-quantitative-rt-pcr-analysis.pdf>

<http://www.genzymegenetics.com/~media/Files/Genetics/PDF/SampleReports/OncologyPathology/sample-report-chromosome-analysis-cytogenetic-positive.pdf>

Coding

See *NAACCR Standards for Cancer Registries, Volume II: Data Standards and Data Dictionary, Fifteenth Edition, page 97* for date format.

Section: Biomarkers – BCR-ABL
BCR-ABL: RT-PCR Qual Date Flag
(Item # 9908)

BCR-ABL: RT PCR Qual Date Flag

Alternate Name	Item #	Length	Source of Standard	Column #
BCRABL_RTPCRQualDateFlag	9908	2	CDC/NPCR-CER	1278

Cancer Site

CML

Description

This flag explains why no appropriate value is in the field, BCR-ABL: RT-PCR Qual Date [9907].

Rationale

Prior to *NAACCR Standards for Cancer Registries, Volume II: Data Standards and Data Dictionary, Fifteenth Edition, Version 12* (through 2009 diagnosis), date fields included codes that provided information other than dates. As part of an initiative to standardize date fields, new fields were introduced to accommodate non-date information that had previously been transmitted in date fields. The non-standard data items for the CDC/NPCR-CER project dates fields have been designed to follow the model set by the NAACCR standards.

Codes (see Appendix H of *NAACCR Standards for Cancer Registries, Volume II: Data Standards and Data Dictionary, Fifteenth Edition, Version 12*, for the complete Flavors of Null table, which includes the NAACCR codes, HL7 codes and definitions).

- 10 No information whatsoever can be inferred from this exceptional value (e.g., unknown if BCR-ABL: RT-PCR Qual test done)
- 11 No proper value is applicable in this context (e.g., no BCR-ABL: RT-PCR Qual test done or not applicable)
- 12 A proper value is applicable but not known. This event occurred, but the date is unknown (e.g., BCR-ABL: RT-PCR Qual test done, but date is unknown)
- 15 Information is not available at this time, but it is expected that it will be available later (e.g., BCR-ABL: RT-PCR Qual test ordered, but has not been administered at the time of the most recent follow up)
- Blank A valid date value is provided in item BCR-ABL: RT-PCR Qual Date [9907], or the date was not expected to have been transmitted

Comment: This is consistent with part of the initiative of the transformation from the old NAACCR date standards to interoperable dates.

Section: Biomarkers – BCR-ABL
BCR-ABL: RT-PCR Quant
(Item # 9909)

BCR-ABL: RT-PCR Quant

Alternate Name	Item #	Length	Source of Standard	Column #
BCRABL_RTPCRQUANT	9909	3	CDC/NPCR-CER	1280

Cancer Site

CML

Description

Record results of the quantitative Reverse Transcriptase Polymerase Chain Reaction RT-PCR for BCR-ABL t(9;22) (q34;q11) at time of initial diagnosis. If multiple test results are recorded in the source records, use results that are closest to the date of diagnosis. This variable refers to all BCR-ABL transcriptions, including BCR-ABL2.

Quantitative RT-PCR may be used to monitor disease response to therapy and relapse.

Do not record results of this test after initiation of treatment.

Quantitative units for BCR-ABL transcript levels are reported as a ratio of fusion gene transcript to β -2-microglobulin reference gene transcript.

Additional information and sample reports can be found at:

<http://www.healthline.com/sw/cs-cml-how-cytogenetic-testing-is-used-for-diagnosis-and-to-monitor-treatment>

<http://www.genzymegenetics.com/~media/Files/Genetics/PDF/SampleReports/OncologyPathology/sample-report-bcr-abl-mutation-analysis-positive.pdf>

<http://www.genzymegenetics.com/~media/Files/Genetics/PDF/SampleReports/OncologyPathology/sample-report-bcr-abl-gene-rearrangement-quantitative-rt-pcr-analysis.pdf>

<http://www.genzymegenetics.com/~media/Files/Genetics/PDF/SampleReports/OncologyPathology/sample-report-chromosome-analysis-cytogenetic-positive.pdf>

Note 1: Other names for this test include: real time RT-PCR, BCR-ABL Gene Rearrangement Analysis

Coding

000* Negative result OR
 Not applicable (e.g., information not collected for this case) OR
 Test not done (e.g., test not ordered and was not performed) OR
 Unknown information (e.g., not documented in source record) OR
 OR Test ordered (e.g., results not in source records)

001 - 998 Ratio of 0.001 to 0.998 (enter exact ratio)
999 Ratio greater than or equal to 0.999

*Please note that this variable will be used in combination with the corresponding BCR-ABL related date and date flag variables to further substantiate which reason applies for coding "000" for a given case.

Section: Biomarkers – BCR-ABL
BCR-ABL: RT-PCR Quant Date
(Item # 9910)

BCR-ABL: RT-PCR Quant Date

Alternate Name	Item #	Length	Source of Standard	Column #
BCRABL_RTPCRQUANTDATE	9910	8	CDC/NPCR-CER	1283

Cancer Site

CML

Description

Record date of quantitative Reverse Transcriptase Polymerase Chain Reaction RT-PCR for BCR-ABL t(9;22) (q34;q11) at time of initial diagnosis. If multiple test results are recorded in source records, use date related to results that are closest to date of diagnosis. This variable refers to all BCR-ABL transcriptions, including BCR-ABL2.

Quantitative RT-PCR may be used to monitor disease response to therapy and relapse.

Use the date that the specimen was obtained and sent for analysis and not the report date. Do not record results of this test after initiation of treatment.

Quantitative units for BCR-ABL transcript levels are reported as a ratio of fusion gene transcript to β -2-microglobulin reference gene transcript.

Additional information and sample reports can be found at:

<http://www.healthline.com/sw/cs-cml-how-cytogenetic-testing-is-used-for-diagnosis-and-to-monitor-treatment>

<http://www.genzymegenetics.com/~media/Files/Genetics/PDF/SampleReports/OncologyPathology/sample-report-bcr-abl-mutation-analysis-positive.pdf>

<http://www.genzymegenetics.com/~media/Files/Genetics/PDF/SampleReports/OncologyPathology/sample-report-bcr-abl-gene-rearrangement-quantitative-rt-pcr-analysis.pdf>

<http://www.genzymegenetics.com/~media/Files/Genetics/PDF/SampleReports/OncologyPathology/sample-report-chromosome-analysis-cytogenetic-positive.pdf>

Note 1: Other names for this test include: real time RT-PCR, BCR-ABL Gene Rearrangement Analysis

Coding

See NAACCR Standards for Cancer Registries, Volume II: Data Standards and Data Dictionary, Fifteenth Edition, page 97 for date format.

Section: Biomarkers – BCR-ABL
BCR-ABL: RT-PCR Quan Date Flag
(Item # 9911)

BCR-ABL: RT PCR Quan Dt Flg

Alternate Name	Item #	Length	Source of Standard	Column #
BCRABL_RTPCRQuantDateFlag	9911	2	CDC/NPCR-CER	1291

Cancer Site

CML

Description

This flag explains why no appropriate value is in the field, BCR-ABL: RT-PCR Quan Date [9910].

Rationale

Prior to *NAACCR Standards for Cancer Registries, Volume II: Data Standards and Data Dictionary, Fifteenth Edition, Version 12* (through 2009 diagnosis), date fields included codes that provided information other than dates. As part of an initiative to standardize date fields, new fields were introduced to accommodate non-date information that had previously been transmitted in date fields. The non-standard data items for the CDC/NPCR-CER project dates fields have been designed to follow the model set by the NAACCR standards.

Codes (see Appendix H of *NAACCR Standards for Cancer Registries, Volume II: Data Standards and Data Dictionary, Fifteenth Edition, Version 12*, for the complete Flavors of Null table, which includes the NAACCR codes, HL7 codes and definitions).

- 10 No information whatsoever can be inferred from this exceptional value (e.g., unknown if BCR-ABL: RT-PCR Quant test done)
- 11 No proper value is applicable in this context (e.g., no BCR-ABL: RT-PCR Quant test done or not applicable)
- 12 A proper value is applicable but not known. This event occurred, but the date is unknown (e.g., BCR-ABL: RT-PCR Quant test done, but date is unknown)
- 15 Information is not available at this time, but it is expected that it will be available later (e.g., BCR-ABL: RT-PCR Quant test ordered, but has not been administered at the time of the most recent follow up)
- Blank A valid date value is provided in item BCR-ABL: RT-PCR Quant Date [9910], or the date was not expected to have been transmitted

Comment: This is consistent with part of the initiative of the transformation from the old NAACCR date standards to interoperable dates.

Section: NBCCEDPLinkage Results (Item # 9980)

NBCCEDP Linkage Results

Alternate Name	Item #	Length	Source of Standard	Column #
NBCCEDPLinkageResults	9980	1	CDC/NPCR-CER	2840

Cancer Site

Breast, Cervix

Description

The purpose of this variable is to enhance the completeness and quality of the central registry database by expanding the linkage with the state Breast and Cervical Cancer Early Detection Program (BCCEDP) data system, and to capture and maintain the resulting information. The information to be captured and maintained includes a BCCEDP link variable and BCCEDP link date. The NBCCEDP MDE Link variable will identify breast or cervical cancer cases in the registry database that matched the same patient and tumor in the NBCCEDP data set (i.e.; patient Jane Doe right breast infiltrating duct carcinoma diagnosed in 2004 in the registry database matched the same Jane Doe right breast infiltrating duct carcinoma diagnosed in 2004 in the NBCCEDP data set).

The BCCEDP link date indicates the date this linkage occurred.

Results from the linkage between central cancer registries and the breast and cervical cancer screening programs should be used to:

- Update MDE data with central cancer registry staging and final diagnosis data
- Identify missing cancer cases in either data set
- Reconcile differences between the two data sets
- Registries are expected to expand these linkages to include post-linkage capture and maintenance of selected data from the BCCEDP data system within the cancer registry; and submit those variables to CDC in the annual NPCR-CSS Call for Data.

Coding

0	record sent for linkage, no match for this cancer with BCCEP data
1	record sent for linkage, match for this cancer with BCCEP data
BLANK	record not sent for linkage or linkage result pending <i>(note: "or linkage result pending" added June 2011)</i>

For reportable breast and cervical cancer cases, use the BCCEDP MDE Link variable and BCCEDP MDE Link date to record results from your registry's data linkage with the

appropriate BCCEDP program(s) in your state/territory/jurisdiction. For the BCCEDP MDE Link variable, use codes 0 (record sent for linkage, no match for this cancer with BCCEDP data) or 1 (record sent for linkage, match for this cancer with BCCEDP data) to indicate linkage results. If the record was not sent for linkage, this variable is to be left blank. If the registry database record links with a BCCEDP database record, indicated by code 1 in the BCCEDP MDE Link variable, the BCCEDP MDE Link date must be completed to indicate the date the linkage occurred. Otherwise, the BCCEDP MDE Link date must be blank.

See Appendix 9: NBCCEDP MDE Link Variables for additional background.

Section: NBCCEDP Linkage Date (Item # 9981)

NBCCEDP Linkage Date

Alternate Name	Item #	Length	Source of Standard	Column #
NBCCEDPLinkageDate	9981	8	CDC/NPCR-CER	2841

Cancer Site

Female Breast, Cervix

Description

The purpose of this variable is to enhance the completeness and quality of the central registry database by expanding the linkage with the state Breast and Cervical Cancer Early Detection Program (BCCEDP) data system and to capture and maintain the resulting information. The information to be captured and maintained includes a BCCEDP link variable and BCCEDP link date. The NBCCEDP MDE Link variable will identify breast or cervical cancer cases in the registry database that matched the same patient and tumor in the NBCCEDP data set (i.e.; patient Jane Doe right breast infiltrating duct carcinoma diagnosed in 2004 in the registry database matched the same Jane Doe right breast infiltrating duct carcinoma diagnosed in 2004 in the NBCCEDP data set).

The BCCEDP link date indicates the date this linkage occurred.

Results from the linkage between central cancer registries and the breast and cervical cancer screening programs should be used to:

- Update MDE data with central cancer registry staging and final diagnosis data
- Identify missing cancer cases in either data set
- Reconcile differences between the two data sets
- Registries are expected to expand these linkages to include post-linkage capture and maintenance of selected data from the BCCEDP data system within the cancer registry; and submit those variables to CDC in the annual NPCR-CSS Call for Data.

Coding

YYYYMMDD = date this cancer linked with BCCEDP data

BLANK = record did not link with BCCEDP data **or linkage result pending**

(note: "or linkage result pending" added June 2011)

For reportable breast and cervical cancer cases, use the BCCEDP MDE Link variable and BCCEDP MDE Link date to record results from your registry's data linkage with the appropriate BCCEDP program(s) in your state/territory/jurisdiction. For the BCCEDP

MDE Link variable, use codes 0 (record sent for linkage, no match for this cancer with BCCEDP data) or 1 (record sent for linkage, match for this cancer with BCCEDP data) to indicate linkage results. If the record was not sent for linkage, this variable is to be left blank. If the registry database record links with a BCCEDP database record, indicated by code 1 in the BCCEDP MDE Link variable, the BCCEDP MDE Link date must be completed to indicate the date the linkage occurred. Otherwise, the BCCEDP MDE Link date must be blank.

See Appendix 9: NBCCEDP MDE Link Variables for additional background.

Section: Comorbidities
Source Comorbidity
(Item # 9970)

Source Comorbidity

Alternate Name	Item #	Length	Source of Standard	Column #
SourceComorbidity	9970	1	CDC/NPCR-CER	1297

This field is not required for cases diagnosed January 1, 2013 and later.

Cancer Site
All

Description

This data item is to record the data source from which comorbidities/complications were collected. This data item refers back to standard NAACCR data item # 3110, 3120, 3130, 3140, 3150, 3160, 3161, 3162, 3163, and 3164.

Coding

- 0 No comorbid condition or complication identified/Not Applicable
- 1 Collected from facility face sheet
- 2 Linkage to facility/hospital discharge data set
- 3 Linkage to Medicare/Medicaid data set
- 4 Linkage with another claims data set
- 5 Combination of two or more sources above
- 9 Other source