

## **Data Extract Creation for SEER Submission**

Last Updated by Claire Daniels, 8/29/2007

1. The final extract will take the form of a flat text file. The file should be named using the following naming convention:  
**rr.nov07.txd**  
where rr represents the two-character abbreviation for the registry.
2. Each row in the text file should correspond with one tumor. The length of each row should be 1946 characters.
3. The following fields are required in the extract:

| Position | Length | NAACCR Item # | NAACCR Item Name          | Eureka Item Name          | Source                   |
|----------|--------|---------------|---------------------------|---------------------------|--------------------------|
| 1-1      | 1      | 10            | Record Type               | Record_Type               | fixed value [I]          |
| 2-9      | 8      | 20            | Patient ID Number         | Patient_ID                | P                        |
| 19-19    | 1      | 50            | NAACCR Record Version     | NAACCR Record Version     | fixed value [B]          |
| 20-29    | 10     | 40            | Registry ID               | Registry ID               | fixed value [0000001541] |
| 30-31    | 2      | 60            | Tumor Record Number       | Central_Tum_No            | T                        |
| 40-47    | 8      |               |                           | Reg_Pat_No                | T                        |
| 40-49    | 10     | 45            | *NPI Registry ID          | NPIRegistryID             |                          |
| 72-73    | 2      | 80            | Addr at DX--State         | Addr_DX_State             | T                        |
| 83-85    | 3      | 90            | County at DX              | County_DX                 | T                        |
| 86-91    | 6      | 110           | Census Tract 1970/80/90   | Census_Tract_90           | T                        |
| 92-92    | 1      | 120           | Census Cod Sys 1970/80/90 | Census Cod Sys 1970/80/90 | calculated               |
| 93-98    | 6      | 130           | Census Tract 2000         | Census_Tract_00           | T                        |
| 100-100  | 1      | 364           | Census Tr Cert 1970/80/90 | Census_Cert_90            | T                        |
| 101-101  | 1      | 365           | Census Tr Certainty 2000  | Census_Cert_00            | T                        |
| 102-102  | 1      | 150           | Marital Status at DX      | Marital_Status            | T                        |
| 103-104  | 2      | 160           | Race 1                    | Race_1                    | P                        |
| 105-106  | 2      | 161           | Race 2                    | Race_2                    | P                        |
| 107-108  | 2      | 162           | Race 3                    | Race_3                    | P                        |
| 109-110  | 2      | 163           | Race 4                    | Race_4                    | P                        |
| 111-112  | 2      | 164           | Race 5                    | Race_5                    | P                        |
| 115-115  | 1      | 190           | Spanish/Hispanic Origin   | Spanish_Origin            | P                        |
| 116-116  | 1      | 200           | Computed Ethnicity        | Computed Ethnicity        | calculated               |
| 117-117  | 1      | 210           | Computed Ethnicity Source | Computed Ethnicity Source | calculated               |
| 118-118  | 1      | 220           | Sex                       | Sex                       | P                        |
| 119-121  | 3      | 230           | Age at Diagnosis          | Age_At_Diagnosis          | calculated               |
| 122-129  | 8      | 240           | Birth Date                | Birth_Date                | P                        |
| 130-132  | 3      | 250           | Birthplace                | Birth_Place               | P                        |
| 231-231  | 1      | 191           | NHIA Derived Hisp Origin  | NHIA_Derived_Hisp_Origin  | P                        |
| 232-232  | 1      | 192           | IHS Link                  | IHSLink                   | P                        |

|         |   |      |                            |                       |                 |
|---------|---|------|----------------------------|-----------------------|-----------------|
| 281-282 | 2 | 380  | Sequence Number--Central   | Seq_No_Central        | T               |
| 283-290 | 8 | 390  | Date of Diagnosis          | Date_DX               | T               |
| 291-294 | 4 | 400  | Primary Site               | Site                  | T               |
| 295-295 | 1 | 410  | Laterality                 | Laterality            | T               |
| 296-299 | 4 | 420  | Histology (92-00) ICD-O-2  | Hist_Type_2           | T               |
| 300-300 | 1 | 430  | Behavior (92-00) ICD-O-2   | Hist_Behavior_2       | T               |
| 301-304 | 4 | 522  | Histologic Type ICD-O-3    | Hist_Type_3           | T               |
| 305-305 | 1 | 523  | Behavior Code ICD-O-3      | Hist_Behavior_3       | T               |
| 306-306 | 1 | 440  | Grade                      | Hist_Grade            | T               |
| 311-311 | 1 | 490  | Diagnostic Confirmation    | DX_Conf               | T               |
| 312-312 | 1 | 500  | Type of Reporting Source   | Report_Source         | T               |
| 322-323 | 2 | 501  | *Casefinding Source        | casefindingSource     |                 |
| 324-324 | 1 | 442  | Ambiguous Terminology      | AmbiguousTerminology  | T               |
| 325-332 | 8 | 443  | Date of Conclusive DX      | DateOfConclusiveDX    | T               |
| 333-334 | 2 | 444  | Multi Tum Rept As One Prim | MultiTumRptAsOnePrim  | T               |
| 335-342 | 8 | 445  | Date of Multiple Tumors    | DateOfMultipleTumors  | T               |
| 343-344 | 2 | 446  | Multiplicity Counter       | MultiplicityCounter   | T               |
| 445-446 | 2 | 630  | Primary Payer at DX        | Pay_Source_1          |                 |
| 528-528 | 1 | 759  | SEER Summary Stage 2000    | Sum_Stage_00          | T or calculated |
| 529-529 | 1 | 760  | SEER Summary Stage 1977    | Sum_Stage_77          | T or calculated |
| 531-533 | 3 | 780  | EOD--Tumor Size            | Tum_Size              | T               |
| 534-535 | 2 | 790  | EOD--Extension             | Extension             | T               |
| 536-537 | 2 | 800  | EOD--Extension Prost Path  | Extension_Path        | T               |
| 538-538 | 1 | 810  | EOD--Lymph Node Involv     | Nodes_Involved        | T               |
| 539-540 | 2 | 820  | Regional Nodes Positive    | Nodes_Pos             | T               |
| 541-542 | 2 | 830  | Regional Nodes Examined    | Nodes_Exam            | T               |
| 562-562 | 1 | 870  | Coding System for EOD      | Coding System for EOD | calculated      |
| 626-626 | 1 | 1150 | Tumor Marker 1             | Tum_Markers_1         | T               |
| 627-627 | 1 | 1160 | Tumor Marker 2             | Tum_Markers_2         | T               |
| 628-628 | 1 | 1170 | Tumor Marker 3             | Tum_Markers_3         | T               |
| 629-631 | 3 | 2800 | CS Tumor Size              | CS_Tum_Size           | T               |
| 632-633 | 2 | 2810 | CS Extension               | CS_Ext                | T               |

|         |   |      |                           |                      |            |
|---------|---|------|---------------------------|----------------------|------------|
| 635-636 | 2 | 2830 | CS Lymph Nodes            | CS_LN                | T          |
| 638-639 | 2 | 2850 | CS Mets at DX             | CS_Mets_DX           | T          |
| 641-643 | 3 | 2880 | CS Site-Specific Factor 1 | CS_Site_Spec_F1      | T          |
| 644-646 | 3 | 2890 | CS Site-Specific Factor 2 | CS_Site_Spec_F2      | T          |
| 647-649 | 3 | 2900 | CS Site-Specific Factor 3 | CS_Site_Spec_F3      | T          |
| 650-652 | 3 | 2910 | CS Site-Specific Factor 4 | CS_Site_Spec_F4      | T          |
| 653-655 | 3 | 2920 | CS Site-Specific Factor 5 | CS_Site_Spec_F5      | T          |
| 656-658 | 3 | 2930 | CS Site-Specific Factor 6 | CS_Site_Spec_F6      | T          |
| 659-660 | 2 | 2940 | Derived AJCC T            | Derived_AJCC_T       | T          |
| 662-663 | 2 | 2960 | Derived AJCC N            | Derived_AJCC_N       | T          |
| 665-666 | 2 | 2980 | Derived AJCC M            | Derived_AJCC_M       | T          |
| 668-669 | 2 | 3000 | Derived AJCC Stage Group  | Derived_AJCC_Stg_Grp | T          |
| 670-670 | 1 | 3010 | Derived SS1977            | Derived_SS1977       | T          |
| 671-671 | 1 | 3020 | Derived SS2000            | Derived_SS2000       | T          |
| 672-672 | 1 | 3030 | Derived AJCC--Flag        | Derived_AJCC_Flag    | T          |
| 673-673 | 1 | 3040 | Derived SS1977--Flag      | Derived_SS1977_Flag  | T          |
| 674-674 | 1 | 3050 | Derived SS2000--Flag      | Derived_SS2000_Flag  | T          |
| 705-710 | 6 | 2935 | CS Version 1st            | CS_Version_1st       | T          |
| 711-716 | 6 | 2936 | CS Version Latest         | CS_Version_Latest    | T          |
| 835-842 | 8 | 1260 | Date of Initial RX--SEER  | Date_RX              | T          |
| 859-860 | 2 | 1290 | RX Summ--Surg Prim Site   | Surg_Prim_Sum        | T          |
| 861-861 | 1 | 1292 | RX Summ--Scope Reg LN Sur | Scope_LN_Sum         | T          |
| 862-862 | 1 | 1294 | RX Summ--Surg Oth Reg/Dis | Surg_Other_Sum       | T          |
| 863-864 | 2 | 1296 | RX Summ--Reg LN Examined  | Surg_LN_Ex_Sum       | T          |
| 867-867 | 1 | 1330 | RX Summ--Reconstruct 1st  | Surg_Sum_Recon       | T          |
| 868-868 | 1 | 1340 | Reason for No Surgery     | Reason_No_Surg       | T          |
| 873-873 | 1 | 1360 | RX Summ--Radiation        | Rad_Sum              | T          |
| 874-874 | 1 | 1370 | RX Summ--Rad to CNS       |                      | calculated |
| 875-875 | 1 | 1380 | RX Summ--Surg/Rad Seq     | Rad_Seq              | T          |
| 876-877 | 2 | 3250 | RX Summ--Transplnt/Endocr | Transp_Endo_Sum      | T          |
| 878-879 | 2 | 1390 | RX Summ--Chemo            | Chemo_Sum            | T          |
| 880-881 | 2 | 1400 | RX Summ--Hormone          | Horm_Sum             | T          |

|           |   |      |                           |                           |                 |
|-----------|---|------|---------------------------|---------------------------|-----------------|
| 882-883   | 2 | 1410 | RX Summ--BRM              | Immuno_Sum                | T               |
| 884-884   | 1 | 1420 | RX Summ--Other            | Other_RX_Sum              | T               |
| 888-889   | 2 | 1460 | RX Coding System--Current | RX Coding System--Current | calculated      |
| 931-931   | 1 | 1639 | RX Summ--Systemic Sur Seq | RXSummSystemicSurSeq      | T               |
| 939-940   | 2 | 1646 | RX Summ--Surg Site 98-02  | Surg_Prim_Sum_98_02       | T               |
| 941-941   | 1 | 1647 | RX Summ--Scope Reg 98-02  | Scope_LN_Sum_98_02        | T               |
| 942-942   | 1 | 1648 | RX Summ--Surg Oth 98-02   | Surg_Other_Sum_98_02      | T               |
| 1124-1124 | 1 | 1990 | Over-ride Age/Site/Morph  | OR_Age_Site               | T               |
| 1125-1125 | 1 | 2000 | Over-ride SeqNo/DxConf    | OR_Seq_DX_Conf            | T               |
| 1126-1126 | 1 | 2010 | Over-ride Site/Lat/SeqNo  | OR_Site_Lat_SeqNo         | T               |
| 1127-1127 | 1 | 2020 | Over-ride Surg/DxConf     | OR_Surg_DX_Conf           | T               |
| 1128-1128 | 1 | 2030 | Over-ride Site/Type       | OR_Site_Type              | T               |
| 1129-1129 | 1 | 2040 | Over-ride Histology       | OR_Hist_Behavior          | T               |
| 1130-1130 | 1 | 2050 | Over-ride Report Source   | OR_DC_Seq                 | T               |
| 1131-1131 | 1 | 2060 | Over-ride Ill-define Site | OR_Multi_Ildf             | T               |
| 1132-1132 | 1 | 2070 | Over-ride Leuk, Lymphoma  | OR_Lymph_Leuk             | T               |
| 1133-1133 | 1 | 2071 | Over-ride Site/Behavior   | OR_Site_Behavior          | T               |
| 1134-1134 | 1 | 2072 | Over-ride Site/EOD/DX Dt  | OR_Site_Stage             | T               |
| 1135-1135 | 1 | 2073 | Over-ride Site/Lat/EOD    | OR_Site_Lat_EOD           | T               |
| 1136-1136 | 1 | 2074 | Over-ride Site/Lat/Morph  | OR_Site_Lat_Hist          | T               |
| 1147-1147 | 1 | 1980 | ICD-O-2 Conversion Flag   |                           |                 |
| 1198-1198 | 1 | 2120 | SEER Coding Sys--Current  | SEER Coding Sys--Current  | fixed value [7] |
| 1199-1199 | 1 | 2130 | SEER Coding Sys--Original | SEER Coding Sys--Original | calculated      |
| 1214-1214 | 1 | 2180 | SEER Type of Follow-Up    |                           | calculated      |
| 1215-1216 | 2 | 2190 | SEER Record Number        |                           | calculated      |
| 1243-1243 | 1 | 2116 | ICD-O-3 Conversion Flag   | ICDO3_Conv_Flag           | T               |
| 1294-1301 | 8 | 1750 | Date of Last Contact      | Date_Lat_Pat_FU           | P               |
| 1302-1302 | 1 | 1760 | Vital Status              | Vital_Status              | P               |
| 1388-1391 | 4 | 1910 | Cause of Death            | Cause_Death               | P               |
| 1392-1392 | 1 | 1920 | ICD Revision Number       | ICD Revision Number       | calculated      |

\* Not added to extract yet

P = select from patient

T = select from tumor

The “position” column refers to the position in the text file that each data item should occupy. This corresponds with the NAACCR Layout version 11.

4. Identify which tumors to include using the following selection criteria:
- Tumor Deleted Flag is NULL.
  - Date of Diagnosis is in the range 1988 to **2005**.
  - The tumor matches one of the following site and histology combinations:
    - a) The tumor is invasive (ICD-O-3 histology behavior code is 3) and
      - is not a skin cancer (sites C440-C449) with the following ICD-O-3 histology types: 8000-8005, 8010-8046, 8050-8084, 8090-8110; OR
    - b) The tumor is in situ (ICD-O-3 histology behavior code is 2), and
      - is not a skin cancer (sites C440-C449) with the following ICD-O-3 histology types: 8000-8005, 8010-8046, 8050-8084, 8090-8110, and
      - is not a cervical cancer (site C530-C539) diagnosed 1996 or later; OR
    - c) ICD-O-3 behavior is 0 (benign) or 1 (borderline) for the intracranial and central nervous system sites (C700 – C709, C710 – C719, C720 – C729, C751 – C753) for diagnosis years 2004 and later; OR
    - d) The tumor was diagnosed prior to 2001, the site is ovary (C569), the ICD-O-2 histology type is 8442, 8451, 8462, 8472 or 8473, and the ICD-O-2 histology behavior code is 3.
  - County of Diagnosis is a known California county (i.e. codes 001 to 058).

Note: Reportability is defined by the date of diagnosis and the coding manual that was in effect for that date of diagnosis. The SEER Coding Manual for 2004 defines the reportability for cases diagnosed in 2004 and forward (until a new coding manual is in effect) and it can't be used for cases diagnosed prior to 2004.

5. Perform the following conversions for each item, or use the rules given to generate the item.

**Record Type [10]**

Set to "I".

**Patient ID Number [20]**

Right justify and zero fill.

**NAACCR Record Version [50]**

Set to "B".

**Registry ID [40]**

Set to 0000009700 (California Cancer Registry) if generating a file containing all records.

Set to 0000001541 (SEER California excluding LA, SJ & SF) if generating a file containing records with a County of Diagnosis in Greater California (Regions 2-6 and 7/10).

**Tumor Record Number [60]**

Right justify and zero fill.

**Regional Patient Number** (not a NAACCR data item)

Select the primary regional patient number for the tumor. If there is none, select blank.

**Addr at DX—State [80]**

Convert to upper case.

**County at DX [90]**

Convert to a FIPS county code. Right justify and zero fill. Eureka codes can be converted to FIPS codes by multiplying the Eureka code by 2 and subtracting 1.

**Census Tract 1970/80/90 [110]**

Valid SEER Census Tract 1970/80/90 codes: Blank, 000000, 000100-949999, 999999.  
Convert California-specific codes 999993-999998 to SEER code 999999.

**Census Cod Sys 1970/80/90 [120]**

If Census Tract 1970/80/90 is blank, then set to blank.  
If Census Tract 1970/80/90 is 000000, then set to 0.  
Otherwise, set to 3.

**Census Tract 2000 [130]**

Valid SEER Census Tract 2000 codes: Blank, 000000, 000100-999998, 999999.  
Convert California-specific codes 999993-999998 to SEER code 999999.

**Census Tr Cert 1970/80/90 [364]**

No conversion required.

**Census Tr Certainty 2000 [365]**

If blank and Date of Diagnosis is 2000 or later, then convert to 9.

**Marital Status at DX [150]**

No conversion required.

**Race 1 [160], Race 2 [161], Race 3 [162], Race 4 [163], Race 5 [164]**

Convert Eureka code 90 to NAACCR code 96.

**Spanish/Hispanic Origin [190]**

No conversion required.

**Computed Ethnicity [200]**

If Date of Diagnosis is before 1994, then set to blank.

Otherwise, use the CCR Volume III logic for SPANISH-SURNAME, namely:

```

If not male (Sex ≠ 1)
  If there is no Maiden_Name
    move 3 to SPANISH-SURNAME
  else if Maiden_Name* is Spanish
    move 7 to SPANISH-SURNAME
  else
    move 1 to SPANISH-SURNAME
else (male)
  move 2 to SPANISH-SURNAME.

```

If SPANISH-SURNAME = 7 stop.

```

If Last_Name* is Spanish
  if SPANISH-SURNAME = 3
    move 6 to SPANISH-SURNAME
  else if SPANISH-SURNAME = 1
    move 4 to SPANISH-SURNAME
else (Hispanic male)
  move 5 to SPANISH-SURNAME.

```

\* If Name is hyphenated and the hyphenated name is not found on the Spanish Surname table, look for each portion of the name on the Spanish Surname table.

When checking to see whether a Maiden Name or Last Name is on the Spanish Surname table, alias Maiden Names and alias Last Names should also be checked.

The Spanish Surname table is listed in Appendix O of CCR Volume I.

**Computed Ethnicity Source [210]**

If Date of Diagnosis is before 1994, then set to blank.  
Otherwise, set to 6.

**Sex [220]**

No conversion required.

**Age at Diagnosis [230]**

Calculate according to CCR Volume III, Appendix 6. The logic is reproduced below:

If either century of birth or century of diagnosis is unknown (99), then AGE-DX = 999.

CCYY DX - CCYY BIRTH = age.

If month of birth or diagnosis is unknown (99), assume unknown month (and day): MMDD = 0701, otherwise, if day of birth or diagnosis is unknown (99), assume unknown day: DD = 15.

If MMDD DX < MMDD Birth  
then AGE-DX = age - 1  
else AGE-DX = age.

If age > 120 move 120 to AGE-DX.

If age < 0, display an error message (DATE DX < DATE BIRTH).

If age is less than zero, then set it to zero instead of displaying an error message. Also, right justify and zero fill.

**Birth Date [240]**

Convert yyymmdd to mmddyyyy. Set dd to 99.

**Birthplace [250]**

No conversion required.

**NHIA Derived Hisp Origin [191]**

No conversion required.

**IHS Link [192]**

No conversion required.

**Sequence Number—Central [380]**

No conversion required.

**Date of Diagnosis [390]**

Convert yyymmdd to mmdyyy. Set dd to 99.

**Primary Site [400]**

No conversion required.

**Laterality [410]**

No conversion required.

**Histology (92-00) ICD-O-2 [420]**

If Date of Diagnosis is 2001 or later, then convert to blank. (Note: in theory, this should be blank in Eureka.)

**Behavior (92-00) ICD-O-2 [430]**

If Date of Diagnosis is 2001 or later, then convert to blank. (Note: in theory, this should be blank in Eureka.)

**Histologic Type ICD-O-3 [522]**

No conversion required.

**Behavior Code ICD-O-3 [523]**

No conversion required.

**Grade [440]**

No conversion required.

**Diagnostic Confirmation [490]**

No conversion required.

**Type of Reporting Source [500]**

No conversion required.

**SEER Summary Stage 2000 [759], SEER Summary Stage 1977 [760]**

If Date of Diagnosis is 1993 or earlier, then

- Populate SEER Summary Stage 2000 from Sum\_Stage\_00
- Populate SEER Summary Stage 1977 from Sum\_Stage\_77.

If Date of Diagnosis is 1994-2003, then

- Use SEER's Summary Stage program to calculate SEER Summary Stage 2000 and SEER Summary Stage 1977. This program is written in C and the source code can be obtained from SEER.

If Date of Diagnosis is 2004 or later, then

- Set SEER Summary Stage 2000 and SEER Summary Stage 1977 to blank.

**EOD—Tumor Size [780], EOD—Extension [790], EOD—Extension Prost Path [800], EOD—Lymph Node Involv [810]**

If Date of Diagnosis is 1993 or earlier, then fill with 9s.

If Date of Diagnosis is 2004 or later, then set to blank.

**Regional Nodes Positive [820]**

If Date of Diagnosis is 1993 or earlier, then fill with 9s.

If Date of Diagnosis is 1994-2003 and Regional Nodes Examined is "95" and Regional Nodes Positive is "95", then set to "97".

**Regional Nodes Examined [830]**

If Date of Diagnosis is 1993 or earlier, then fill with 9s.

**Coding System for EOD [870]**

If Date of Diagnosis is 2004 or later, then set to blank.  
Otherwise, set to “4”.

**Tumor Marker 1 [1150], Tumor Marker 2 [1160]**

If Date of Diagnosis is before 1990, then generate 9.

If Date of Diagnosis is 1990-2003 and Site is C500-C509 and Type of Reporting Source is 6, then generate 0.

If Date of Diagnosis is 1990-2003 and Site is C500-C509 and Type of Reporting Source is 7, then generate 9.

If Date of Diagnosis is 1990-2003 and Site is C500-C509 and Type of Reporting Source is not 6 or 7, then take the tumor-level value.

If Date of Diagnosis is 1998-2003 and Site is C619 or C620-C629 and Type of Reporting Source is 6, then generate 0.

If Date of Diagnosis is 1998-2003 and Site is C619 or C620-C629 and Type of Reporting Source is 7, then generate 9.

If Date of Diagnosis is 1998-2003 and Site is C619 or C620-C629 and Type of Reporting Source is not 6 or 7, then take the tumor-level value.

If Date of Diagnosis is 1990-1997 and Site is not C500-C509, then generate 9.

If Date of Diagnosis is 1998-2003 and Site is not C500-C509 or C619 or C620-C629, then generate 9.

If Date of Diagnosis is later than 2003, then generate blank.

**Tumor Marker 3 [1170]**

If Date of Diagnosis is before 1998, then generate 9.

If Date of Diagnosis is 1998-2003 and Site is C620-C629 and Type of Reporting Source is 6, then generate 0.

If Date of Diagnosis is 1998-2003 and Site is C620-C629 and Type of Reporting Source is 7, then generate 9.

If Date of Diagnosis is 1998-2003 and Site is C620-C629 and Type of Reporting Source is not 6 or 7, then take the tumor-level value.

If Date of Diagnosis is 1998-2003 and Site is not C620-C629, then generate 9.

If Date of Diagnosis is later than 2003, then generate blank.

**Collaborative Staging Fields**

**CS Tumor Size [2800]**  
**CS Extension [2810]**  
**CS Lymph Nodes [2830]**  
**CS Mets at DX [2850]**  
**CS Site-Specific Factor 1 [2880]**  
**CS Site-Specific Factor 2 [2890]**  
**CS Site-Specific Factor 3 [2900]**  
**CS Site-Specific Factor 4 [2910]**  
**CS Site-Specific Factor 5 [2920]**  
**CS Site-Specific Factor 6 [2930]**  
**Derived AJCC T [2940]**  
**Derived AJCC N [2960]**  
**Derived AJCC M [2980]**  
**Derived AJCC Stage Group [3000]**  
**Derived SS1977 [3010]**  
**Derived SS2000 [3020]**  
**Derived AJCC—Flag [3030]**  
**Derived SS1977—Flag [3040]**  
**Derived SS2000—Flag [3050]**  
**CS Version 1st [2935]**  
**CS Version Latest [2936]**

No conversion required.

**Date of Initial RX—SEER [1260]**

Use the CCR Volume III logic for Date\_RX, namely:

Computer generate by choosing the earliest date from either Date\_Surg, Date\_Rad, Date\_Chemo, Date\_Horm, Date\_Immuno , or Date\_Other\_RX, Date\_Def\_Surg and Date\_Transp\_Endo.

Also, use the following rules:

- If any date is blank or 8s, then convert it to 0s.
- If all dates are 0s, then Date RX is 0s.
- If all dates are 0s and 9s, then Date RX is 9s.
- Otherwise, select the earliest date that is not 0s or 9s.

Convert the resulting date to mmddyyyy format and set dd to 99.

**RX Summ—Surg Prim Site [1290]**

If Date of Diagnosis is before 1998, then set to blank.

**RX Summ—Scope Reg LN Sur [1292]**

If Date of Diagnosis is before 2003, then set to blank.

**RX Summ—Surg Oth Reg/Dis [1294]**

If Date of Diagnosis is before 2003, then set to blank.

**RX Summ—Reg LN Examined [1296]**

If Date of Diagnosis is not 1998-2002, then set to blank.

**RX Summ—Reconstruct 1st [1330]**

Select from tumor if Date of Diagnosis is 1998-2002 and Primary Site begins with C50, otherwise set to blank.

**Reason for No Surgery [1340]**

Use the first conversion that applies, if any:

- If Date of Diagnosis is 1998-2002 and (RX Summ—Surg Site 98-02 is 10-90 or RX Summ—Scope Reg 98-02 is 1-6 or RX Summ—Surg Oth 98-02 is 1-8), then set to 0.
- If Date of Diagnosis is 1998-2002 and RX Summ—Surg Site 98-02 is 00 and Type of Reporting Source is not 6 and Reason for No Surgery is 9, then set to 6.
- If Date of Diagnosis is before 2003 and Type of Report Source is 6, then set to 2.
- If Date of Diagnosis is before 2003 and Reason for No Surgery is 5, then set to 2.
- If Date of Diagnosis is 2003 or later and Type of Reporting Source is 6 or 7, then set to 9.
- If Date of Diagnosis is 2003 or later and RX Summ—Surg Prim Site is 00 and Reason for No Surgery is 9, then set to 6.

**RX Summ—Radiation [1360]**

If Eureka has 0 for “RX Summ—Radiation” and either 7 or 8 for “Reason for No Radiation”, then convert to Eureka’s “Reason for No Radiation” value.

**RX Summ—Rad to CNS [1370]**

If the following conditions are true:

- Type of Reporting Source is 6, and
- Date of Diagnosis is before 1998, and
- Primary Site is C340-C349 (lung) or Histology Type 2 is 9800-9941 (leukaemia)

then set to 0.

Otherwise, set to 9.

**RX Summ—Surg/Rad Seq [1380]**

No conversion required.

**RX Summ—Transplnt/Endocr [3250]**

No conversion required.

**RX Summ—Chemo [1390], RX Summ—Hormone [1400]**

If Date of Diagnosis is 2002 or earlier and the Eureka value is 82, 85 or 86, then convert to 00.

**RX Summ—BRM [1410]**

No conversion required.

**RX Summ—Other [1420]**

No conversion required.

**RX Coding System—Current [1460]**

If Date of Diagnosis is before 2003, then set to 05 (treatment data coded according to 1998 SEER Manual).  
Otherwise, set to 06 (treatment data coded according to FORDS Manual).

**RX Summ—Systemic Sur Seq [1639]**

If Date of Diagnosis is 2006 or earlier, then set to blank.

**RX Summ—Surg Site 98-02 [1646], RX Summ—Scope Reg 98-02 [1647], RX Summ—Surg Oth 98-02 [1648]**

If Date of Diagnosis is not 1998-2002, then set to blank.

**Override Flags**

- Over-ride Age/Site/Morph [1990]**
- Over-ride SeqNo/DxConf [2000]**
- Over-ride Site/Lat/SeqNo [2010]**
- Over-ride Surg/DxConf [2020]**
- Over-ride Site/Type [2030]**
- Over-ride Histology [2040]**
- Over-ride Report Source [2050]**
- Over-ride Ill-define Site [2060]**
- Over-ride Leuk, Lymphoma [2070]**
- Over-ride Site/Behavior [2071]**
- Over-ride Site/EOD/DX Dt [2072]**
- Over-ride Site/Lat/EOD [2073]**
- Over-ride Site/Lat/Morph [2074]**

Convert 0 to blank.

**ICD-O-2 Conversion Flag [1980]**

If Date of Diagnosis is 1991 or earlier, then set to 1 (primary site and morphology converted without review).

If Date of Diagnosis is 1992-2000, then set to 0 (primary site and morphology originally coded in ICD-O-2).

Otherwise, set to blank (not converted).

**SEER Coding Sys—Current [2120]**

If Date of Diagnosis is 2006 or earlier, then set to 7 (January 2004 SEER Coding Manual).

Otherwise, set to 8 (January 2007 SEER Coding Manual).

**SEER Coding Sys—Original [2130]**

Calculate based on the Date of Diagnosis:

| <b>Date of Diagnosis</b>                            | <b>Code</b> | <b>Meaning</b>                  |
|---|-------------|---------------------------------|
| January 1987-April 1988                             | 1           | 1987 SEER Coding Manual         |
| May 1988-December 1988<br>(including unknown month) | 2           | May 1988 SEER Coding Manual     |
| 1989-1991   | 3           | January 1989 SEER Coding Manual |
| 1992-1997   | 4           | January 1992 SEER Coding Manual |
| 1998-2002   | 5           | January 1998 SEER Coding Manual |
| 2003  | 6           | January 2003 SEER Coding Manual |
| 2004+   | 7           | January 2004 SEER Coding Manual |

**SEER Type of Follow-Up [2180]**

If Type of Reporting Source is 6 or 7, then set to 1 (“Autopsy Only” or “Death Certificate Only” case);  
 else if Primary Site is C530-C539 and either “Behavior (92-00) ICD-O-2” is 2 or “Behavior Code ICD-O-3” is 2, then set to 3  
 (in situ cancer of the cervix uteri only);  
 otherwise set to 2 (active follow-up case).

**SEER Record Number [2190]**

Generate a sequential number for each record submitted per patient, ordered by Sequence Number Central. For example, if the patient has 5 tumors in Eureka, but only 3 are being submitted, with sequence numbers 02, 03 and 05, then the tumor with sequence number 02 should have a SEER Record Number of 01, the tumor with sequence number 03 should have a SEER Record Number of 02, and the tumor with sequence number 05 should have a SEER Record Number of 03. The SEER Record Number should be generated separately for each file that is being submitted.

**ICD-O-3 Conversion Flag [2116]**

No conversion required.

**Date of Last Contact [1750]**

Convert yyyymmdd to mmddyyyy. Set dd to 99.

**Vital Status [1760]**

Convert Eureka code 0 to SEER code 4.

**Cause of Death [1910]**

No conversion required.

**ICD Revision Number [1920]**

If Eureka Vital Status is 1 (alive) then set to 0 (patient alive at last followup).

If Eureka Vital Status is 0 (dead) and Date of Last Contact is before 1999, then set to 9 (ICD-9).

If Eureka Vital Status is 0 (dead) and Date of Last Contact is 1999 or later, then set to 1 (ICD-10).

6. The following files should be generated:
  - One file containing all records. For this file, the Registry ID should be set to 0000009700 (California Cancer Registry).
  - One file containing records with a County of Diagnosis in Greater California (Regions 2-6 and 7/10). For this file, the Registry ID should be set to 0000001541 (SEER California excluding LA, SJ & SF).
  
7. The final submission files should be sorted by:
  - Registry ID (NAACCR Item #40)
  - Patient ID Number (NAACCR Item #20)
  - Sequence Number Central (NAACCR Item #380)
  
8. The submission files should be run through SEER\*Edits and any edit errors should be corrected.

## **References**

SEER Web Site: <http://seer.cancer.gov/>

[SEER Data Submission Requirements](#)

[SEER Program Coding and Staging Manual](#)

NAACCR Web Site: <http://www.naacr.org/>

[NAACCR Standards for Cancer Registries, Volume II](#) (currently using version 11)

[California Cancer Reporting System Standards, Volume I, Appendices](#)

[California Cancer Reporting System Standards, Volume III](#)