

2026 Edition

Abstract Code Manual

**MISSOURI CANCER REGISTRY
AND RESEARCH CENTER**

University of Missouri – Columbia

2026
Revised
12/19/2025



Missouri Cancer Registry and Research Center

Abstract Code Manual

2026 Edition

2026

This project was supported in part by a cooperative agreement between the Centers for Disease Control and Prevention (CDC) and the Missouri Department of Health and Senior Services (DHSS) (#NU58DP007130-04) and a Surveillance Contract between DHSS and the University of Missouri.

Table of Contents

Preface: ABOUT THIS MANUAL.....	1
Changes for 2026.....	2
Introduction: MISSOURI CANCER REPORTING REQUIREMENTS	3
Role of Hospitals	4
Role of Missouri Cancer Registry and Research Center	4
Confidentiality	4
Edits	4
Audits.....	5
Chapter 1: GENERAL INSTRUCTIONS.....	6
Important Items for Reporting.....	6
Changing Information	7
Data Transmissions	7
Proper Mailing Procedures	8
Chapter 2: DETERMINING REPORTABILITY.....	9
Casefinding Techniques.....	9
Reportable List for Casefinding	9
Cases That Must Be Reported	9
Cases Not Required to Be Reported.....	12
Ambiguous Terms.....	13
Ambiguous Terms for Tumor Spread - Summary Stage 2018.....	14
Chapter 3: DETERMINING PRIMARY TUMORS.....	17
Multiple Primaries for Solid Tumors.....	17
General Information	17
How to Use Solid Tumor Coding Rules.....	18
Multiple Primary Rules for Hematopoietic Cases.....	19
Chapter 4: FIRST COURSE OF THERAPY.....	20
Definitions	20
All Malignancies Except Leukemias	20
Leukemias	20
Time Periods for First Course of Treatment (FCT)	20
Rx Summ—Treatment Status	22
Surgical Diagnostic and Staging Procedures (Non-Cancer Directed Surgery)	22
Chapter 5: INITIAL ABSTRACT	23
Identification Information	23
Reporting Hospital/Facility Number (Reporting Facility)	23
NPI-Reporting Facility	23
Accession Number + Sequence Number	23
Sequence Number(s)	24
Personal History (1 & 2) (MO Personal Hx 1, 2).....	25
Year 1 & 2 (MO Year 1, 2).....	25
Name—Last	26
Name—First	26
Name—Middle	26
Name—Birth Surname.....	26
Name—Alias	26
Address at Diagnosis - Number and Street	26

Address at Diagnosis - Supplemental	27
Address at Diagnosis - City/Town	27
State at Diagnosis.....	27
Postal Code at Diagnosis	28
County at Diagnosis.....	28
Address Current.....	28
Patient Address Current—(Number and Street).....	28
City/Town Current	28
State—Current	28
Postal Code—Current (Zip Code)	28
County-Current	28
Medical Record Number.....	29
Name of Spouse / Parent / Contact Person.....	29
Abstracted By	29
Social Security Number	29
Telephone Number	29
MO Alcohol History	30
MO Tobacco History	30
Years of Tobacco Use.....	30
Tobacco Use Smoking Status 2023+.....	30
Toxic Exposure	30
Marital Status at Diagnosis.....	31
Sex.....	31
Race 1 - 5	31
Spanish/Hispanic Origin	33
Date of Birth (Birth Date).....	33
Date of Birth Flag	33
Birthplace—State, Country	34
Age at Diagnosis.....	34
Lifetime Occupation	34
Type of Industry.....	35
Date of 1st Contact	35
Institution Referred To.....	35
Institution Referred From	35
Medicare Beneficiary Number.....	36
Primary Payer at Diagnosis	36
Class of Case	38
Type of Reporting Source	40
COC Accredited Flag.....	40
Chapter 6: TEXT FIELDS.....	41
Text—Dx Procedure—Physical Exam (Text—Dx Proc—PE)	41
Text—Dx Procedure—X-rays/Scans (Text—Dx Proc—X-ray/scan)	42
Text—Dx Procedure—Scopes (Text—DX Proc—Scopes).....	42
Text—Lab Tests (Text—Dx Proc—Lab Tests).....	43
Rx Text—Surgery (Rx Text—Surgery).....	43
Text—OP (Text—Dx Procedure—OP)	43
Text—Dx Procedure—Pathology (Text—Dx Proc—Path)	44
Text—Staging	44
Text—Remarks	45
Text—Place of Diagnosis	45
Rx Text—Radiation (Beam) and RxText—Radiation Other	45
Rx Text—Chemo, Rx Text—Hormone, Rx Text—BRM, and Rx Text—Other	45
Primary Site Title (Text—Primary Site Title)	46
Histology Title (Text—Histology Title)	46
Sample Text Entries	46
Chapter 7: CANCER IDENTIFICATION	47

Primary Site	47
Primary Site Coding—Lymphomas.....	49
Histologic Type	49
ICD-O-3 Conversion Flag	51
Behavior Code.....	51
Grade Fields	52
Grade Clinical	53
Grade Post Therapy Clinical (yc).....	54
Grade Pathological	55
Grade Post Therapy Pathological (yp).....	56
Derived Summary Grade 2018+.....	57
Date of Diagnosis	57
Diagnostic Confirmation	58
Laterality.....	61
Chapter 8: STAGING SCHEMES	63
SEER Summary Stage 2021	63
Site Specific Data Items (SSDIs)	64
Lymph-Vascular Invasion	66
Tumor Size Summary	67
Regional Nodes Positive.....	68
Regional Nodes Examined	68
Sentinel Lymph Nodes Positive.....	69
Surgical Diagnostic and Staging Procedure (RXSumm-DX/Stg Proc).....	70
Date of Surgical, Diagnostic and Staging Procedure (Rx Date—Dx/Stg/Proc).....	71
Chapter 9: TUMOR-DIRECTED TREATMENT	72
Date of 1st Course of Treatment (Date of 1st Crs RX-CoC).....	72
Rx Summ—Treatment Status	73
Surgery of Primary Site (Rx Summ—Surg Prim Site)	74
New Surgery Code Format and Melanoma Surgery Codes 2023+ Diagnosis.....	76
Rx Summ-Surg Breast.....	76
Rx Summ-Recon Breast.....	78
Macroscopic Evaluation of Mesorectum.....	79
Date of First Surgical Procedure (Rx Date—Surgery)	80
Date of Most Definitive Surgery (RX Date—Mst Dfn Srg)	80
Reason for No Surgery of Primary Site (Reason for No Surgery)	81
Surgical Margins of the Primary Site (Rx Summ—Surgical Margins.....	82
Systemic/Surgery Sequence (Rx Summ-System/Sur Seq)	83
Scope of Regional Lymph Node Surgery (Rx Summ—Scope Reg LN Surg)	84
Surgical Procedure/Other Site (Rx Summ—Surg Oth Reg/Dis).....	85
Date Radiation Started (Rx Date—Radiation)	85
Location of Radiation.....	86
Phase I Radiation Treatment Modality	86
Reason for No Radiation	88
Radiation/Surgery Sequence (Rx Summ—Surg/Rad Sequence)	89
Chemotherapy (Rx Summ—Chemo).....	90
Date Chemotherapy Started (Rx Date—Chemo)	91
Hormone (Hormone/Steroid) Therapy (Rx Summ- Hormone)	92
Date Hormone Therapy Started (RX Date—Hormone).....	94
Immunotherapy (BRM) (Rx Summ—BRM)	94
Date Immunotherapy Started (Rx Date—BRM)	96
Hematologic Transplant and Endocrine Procedures (Rx Summ—Transplnt/Endocr)	96
Other Treatment (Rx Summ—Other)	98
Date Other Treatment Started (Rx Date—Other)	99

Chapter 10: OUTCOME INFORMATION	100
Date of Last Contact or Death (Date of Last Contact)	100
Vital Status	100
Cancer Status	100
Underlying Cause of Death (Cause of Death).....	102
ICD Revision Number	102
Place of Death—State and Country	102
Follow-up Source	102
Information Release Data Items.....	102
Citations.....	103
Appendix A: SUPPLEMENTAL INSTRUCTIONS FOR CASES DIAGNOSED PRIOR TO 2018.....	104
Grade or Differentiation.....	104
Collaborative Stage	113
CS Version Original	113
CS Version Derived	113
CS Version Input Current	114
CS Site-Specific Factors	114
AJCC TNM Stage	114
TNM Clin T	115
TNM Clin N	115
TNM Clin M	115
TNM Clin Stage Group.....	116
TNM Clin Descriptor.....	116
TNM Path T	116
TNM Path N	116
TNM Path M	117
TNM Path Stage Group.....	117
TNM Path Descriptor	117
TNM Edition Number	118
Appendix B: SUPPLEMENTAL INSTRUCTIONS FOR CASES DIAGNOSED PRIORTO 2010.....	119
Primary Site for Solid Tumors Diagnosed Prior to 2007.....	119
Site Differences.....	120
Subsites that Represent Unique Primaries.....	120
Primary Based on Grouped Sites	121
Laterality Differences.....	121
Histology Differences	122
Timing Differences	123
Primary Site for Lymphomas Diagnosed Prior to 2010	123
Histologic Type	124
SEER Summary Stage 2000	125
SEER Summary Stage 1977	125

Acknowledgements

The Missouri Cancer Registry and Research Center would like to thank the American College of Surgeons-Commission on Cancer for permission to include some Standards for Oncology Registry Entry (STORE) in this manual. Such sections include the sub-heading “Instructions for Coding” or the term “per STORE”.

ABOUT THIS MANUAL

Public Law 102-515 and the Missouri Cancer Registry and Research Center

The primary purpose of the *Abstract Code Manual* is to assist hospital-based cancer registrars in reporting cancer cases to the Missouri Cancer Registry and Research Center (MCR-RC). This revision introduces changes in coding structures and requirements for cases diagnosed on or after January 1, 2025, established by the National Program of Cancer Registries (NPCR), the North American Association of Central Cancer Registries (NAACCR) and the Commission on Cancer (CoC). **The 2026 updates are fully documented in *Standards for Oncology Registry Entry (STORE)* and *SEER Program Coding and Staging Manual 2026*.**

Since the passage of Public Law 102-515, entitled the *Cancer Registries Amendment Act*, by the 102nd Congress in October 1992, there has been a tremendous effort by all agencies collecting cancer data to unify and standardize data sets. With the establishment of the National Program of Cancer Registries in 1994, all central registries funded by the Centers for Disease Control and Prevention (CDC) through NPCR are required to follow stringent data management procedures; provide training for state personnel and hospital registry staff; publish an annual report; and conduct case-finding and re-abstracting audits at selected facilities.

Although MCR began receiving CDC/NPCR funding in 1995, our index (reference) year is 1996. MCR collects data that: 1) are compliant with required NPCR data elements; 2) meet standard requirements designated by NAACCR for incidence reporting and endorsed by CDC; and 3) assist in determining data quality. MCR also uses the data to provide useful feedback to submitting facilities that can be used for quality assurance activities and administrative purposes.

Data is submitted annually to NAACCR for Registry Certification and publication in *Cancer in North America (CINA)*. Registries whose data meet established criteria, including criteria for timeliness, accuracy and completeness, are recognized annually as NAACCR Certified Registries. MCR data has been certified since 2001 (for 1998 data) and has received 'gold' status since 2003 (for 2000 data).

In 1999, the Department of Health and Senior Services (DHSS) entered into a cooperative agreement with the University of Missouri, Columbia (UMC) allowing UMC to be the recipient of data submitted by reporting facilities. This agreement is carried out under the auspices of the College of Health Sciences of UMC.

Usage of the data is regulated by DHSS policies.

In early 2011, the Missouri Cancer Registry became the Missouri Cancer Registry and Research Center (MCR). The change was made to better reflect our activities in research and data usage.

Changes for 2026

- ◆ Explanations added to MCR Abstract Manual entries for **2026**, are shown in **blue** font for your convenience.
- ◆ Clarifications were added per updates to the STORE Manual and NPCR reportability requirements.
- ◆ New fields are explained.
- ◆ Grade section expanded with new information and reference to Grade Manual.
- ◆ Citations are updated.

Introduction

MISSOURI CANCER REPORTING REQUIREMENTS

Role of Reporting Facilities, Missouri Cancer Registry and Research Center, Confidentiality and Audits

Missouri statutes, NPCR and NAACCR requirements, data quality and projected needs of the citizens of this state govern reporting requirements. In 1999, in an effort to establish a true population-based central cancer registry in Missouri, statutes governing cancer reportability were expanded to include patients diagnosed and/or treated as hospital outpatients and in non-hospital facilities (e.g., pathology laboratories, ambulatory surgery centers, freestanding treatment centers, physician offices and long-term care facilities). This manual is intended for use in hospital-based registries.

In determining case reportability, MCR follows the rules of the Surveillance, Epidemiology and End Results (SEER) program of the National Cancer Institute. SEER guidelines are specified in GENERAL INSTRUCTIONS. Data items are based on fields required and/or recommended by NPCR for central registries collecting incidence data. Additional requirements include fields necessary for quality assurance purposes and eleven Missouri-specific fields. A complete list of required data items is posted on the MCR website: <https://cancerregistry.missouri.edu/>

Role of Hospitals

The primary source for obtaining epidemiological information is the hospital cancer registry. A registry is responsible for providing a listing of cancer patients and pertinent information regarding their diagnoses. A registry may be small or large, and the extent of information submitted varies, depending on hospital size and the reporting methods for each facility. Some hospitals have had their own registries for years in accordance with the American College of Surgeons-Commission on Cancer (ACoS-CoC) requirements, while others have limited registries and collect or provide only the state mandated reporting requirements.

Role of Missouri Cancer Registry and Research Center (MCR)

MCR's role is to gather information from hospitals and other sources to monitor the incidence of cancer in the state for epidemiological research that may be used to develop and evaluate cancer prevention and control activities in Missouri. The data is received electronically from hospitals that have on-site or contract registrars. Facilities without a registrar having an annual caseload of 50 or fewer cases are called low-volume facilities. Information from these facilities is accepted in electronic chart form, and MCR staff complete the abstracts. The data collected is invaluable in targeting risk factors in certain populations, studying the impact of environmental factors, identifying ethnic and social variations, and evaluating the effectiveness of state cancercontrol programs.

The MCR staff is available to answer registry-related questions and to provide workshops, educational presentations, and one-on-one training. Please refer to the MCR website at <https://cancerregistry.missouri.edu/> under Education/Training for complete information.

Confidentiality

Per Missouri statute (192.655, RSMo 1999), the “department of health shall protect the identity of the patient, physician, health care provider, hospital, pathology laboratory, ambulatory surgical center, residential care facilities I or II, intermediate care facilities or skilled nursing facilities, and free-standing cancer clinic or treatment center... and that such identity shall not be revealed except...only upon written consent...” This confidentiality provision is necessary to assure all reporting entities that neither their identity nor the confidential data they submit will be subject to unauthorized release.

In addition, MCR employees are required to sign confidentiality agreements and follow confidentiality procedures set forth in the MCR Policy and Procedure Manual. These regulations include the use of locked cabinets for confidential data, employing secure workstation practices, adhering to procedures for handling requests for data, etc. MCR employees also recognize the importance of compliance with ARRA HITECH provisions.

Note: The Health Insurance Portability and Accountability Act known as HIPAA allows for the reporting of identifiable cancer data to public health entities. Because the MCR falls under the definition of a public health authority, HIPAA allows your facility to continue reporting cancer incidence data in compliance with state statutes (192.650-192.657 RSMo) and regulations (19 CSR 70-21). Written informed consent from each cancer patient reported to public health entities is not required under HIPAA nor is a Business Associate Agreement required; rather, hospitals must simply document that reporting has occurred.

Edits

A Missouri-specific edit set was first developed in 2008. The MCR edit set was updated in accordance with the NAACCR v26 data and made available to all registry

software vendors. MCR recommends that you run these edits at the time of abstracting. These edits are applied to all files submitted to MCR via Web Plus and errors exceeding a set threshold may be cause for rejection of the file. Questions regarding edits should be directed to MCR Quality Assurance staff at 1-800-392-2829.

Audits

MCR periodically conducts case completeness and data quality audits as required by the NPCR. The intent of the audits is to assist hospitals with casefinding and abstracting issues to ensure complete, high-quality data is submitted to MCR. Each Missouri hospital is audited every five years. All reporting hospitals are subject to case completeness and data quality audits, including some low volume facilities, while only case completeness audits are performed at other low volume hospitals that do not perform abstracting. Standard audits include casefinding and re-abstraction of data for a specific year. Alternatively, audits other than the standard method may also be performed periodically such as case completeness review based on hospital accession register matches with MCR database, data quality re-coding audits to evaluate data quality and text, and other site specific or tumor specific data quality reviews. After completion of the audits, detailed summary reports are prepared and shared with the hospital registrar and other related hospital staff. **Per NPCR guidelines, the acceptable accuracy rate for all audits is 95 – 100%.**

Standard Casefinding Inpatient/Outpatient hospital disease indices, pathology reports and other pertinent casefinding documents are reviewed and matched to the MCR database. Any non-matched cases are returned to the registrar or hospital contact person for resolution. During routine casefinding, registrars can assist themselves and MCR by maintaining a non-reportable list (patient name, date of birth or social security number, ICD-10-CM code of the non-reportable malignancy, date seen, and reason not reported). Another method is to note the reason a case is non-reportable on the registrar's casefinding source, such as the Medical Records Disease Index (MRDI). The listing or notations will help registrars avoid duplication of efforts related to casefinding and identification of non-reportable cases in the audit process.

Standard Abstraction The re-abstracting audit consists of review and re-abstraction of specific MCR required fields from the original hospital record with comparison to the original abstracted data. During resolution, registrars are given the opportunity to provide any additional information not available to the auditor that may justify the original coding. Discrepancies are discussed with the hospital registrar. Abstracting and coding guidelines are reviewed and reinforced. **Further training may be recommended and, if warranted, MCR can provide assistance to individual registrars through Zoom or Teams meetings.**

NPCR Audits Case Completeness and data quality audits are periodically conducted by NPCR on the Missouri Cancer Registry and Research Center. While a few hospitals may be requested to provide the data, the audits are conducted on MCR, not on the individual facilities.

Chapter 1

GENERAL INSTRUCTIONS

Basic Reporting Rules for State Reporting

Important Items for Reporting

- ◆ All reportable cancer cases diagnosed and/or treated in your facility after August 28, 1984, must be abstracted and reported to the Missouri Cancer Registry and Research Center (MCR).
- ◆ Completed cases should be submitted to the MCR within six months of date of initial contact for that facility.
- ◆ Electronic reporting is required for all facilities. MCR will provide free software ([Web Plus](#)) to facilities for case abstraction. Please contact us at 1-800-392-2829 to inquire about [Web Plus](#).
- ◆ Occasionally hospitals require special data reports from the central registry. Requests for studies, reports or information may be submitted to MCR staff by calling 1-800-392-2829.
- ◆ Solid tumors are abstracted according to reportability, and coding instructions set forth in the following manuals:

Date Case Diagnosed	Manual	URL
1/1/2007-12/31/2017	Multiple Primary and Histology Coding Rules	https://seer.cancer.gov/tools/mphrules/
1/1/2018 - forward	Solid Tumor Rules Coding Manual	https://seer.cancer.gov/tools/solidtumor/

□ ICD-O-3 coding must be used for site and histology of cases diagnosed on or after January 1, 2001. As of April 2019, the International Association of Cancer Registries (IARC) and the WHO ICD-O committee finalized ICD-O-3.2. Beginning with cases diagnosed January 1, 2021, ICD-O-3.2 is the preferred morphology coding reference manual. [It is to be used jointly with the 2026 ICD-O-3.2 Histology and Behavior Code Update tables, Hematopoietic and Lymphoid Neoplasm Database, and Solid Tumor \(MP/H\) Rules. The 2026 ICD-O-3.2 Histology Code and Behavior Update includes comprehensive tables listing all changes made, including new terminology and reportability effective for cases diagnosed 1/1/2026 forward. These guidelines include instructions for using the tables together with ICD-O-3.2.](#) <https://www.naaccr.org/icdo3/>

Changing Information

It is possible that after a cancer case has been abstracted and submitted to MCR, additional information was added to the patient's chart, which may lead to significant changes in specific data items submitted on the initial abstract. Justification/explanation should accompany the change.

Example: The patient originally diagnosed with an unknown primary cancer and after further investigation it is determined that the cancer is a primary of the lung. It is correct to electronically submit a *Change of Information* form (*COI*) to MCR and change the primary site code.

Hint: Changing the primary site will require review of site-specific fields (e.g., surgery codes, staging, laterality, etc.) to identify additional coding changes needed.

Please note that all COI's must be reported electronically via WebPlus at <https://cancerregistry.missouri.edu/reporting/reporting-overview/>

For assistance or to discuss a changed case directly, please contact MCR staff at 1-800-392-2829.

Data Transmissions

Security of Data Transmissions — Electronic data are to be transmitted using the Web Plus upload. Instructions for the use of Web Plus can be found on the MCR website. If your facility has other required methods of data transmission, please contact MCR staff. The **MCR** requires that all data be submitted via a secure electronic method. Diskettes and CDs are no longer accepted.

Protected Health Information (PHI) and other confidential data **MUST NOT** be included in e-mails to MCR. Do not include information either in the text of the e-mail or as an attachment. If this happens, MCR staff will alert the registrar, so that the information can be permanently deleted from all e-mail.

Confidential information on individual cases may be uploaded using Web Plus non-NAACCR layout function, or it may be transmitted via fax. Faxes to 573-884-9655 are received via a secure fax to mail system.

Data Transmission Procedures — A completed transmittal form must accompany each data submission. **In addition, a completed transmittal form should be sent to MCR even if no data is submitted for the designated reporting period.** Required schedules for data submissions are as follows:

Annual caseload >500	Monthly
Annual caseload 300-500	Monthly or quarterly
Annual caseload <300	Quarterly

Proper Mailing Procedures

Do NOT mail paper patient records to MCR. Instead, use secure electronic means such as **fax (573) 884-9655** or send via Web Plus as a non-NAACCR document. Non-confidential mail may be sent to the university address below.

Missouri Cancer Registry and Research Center
University of Missouri
1095 Hospital Drive PS7
Columbia, MO 65211

DETERMINING REPORTABILITY

Casefinding Techniques

Reportable Cases may be identified from a variety of sources. The hospital pathology laboratory can provide cases diagnosed by histology, cytology, hematology, bone marrow or autopsy. Other resources include daily discharges and daily coding logs, disease indices, inpatient and outpatient surgery logs, radiotherapy consults, treatment reports and logs, and oncology clinic treatment reports and logs. *Never rely solely on the pathology department to provide reportable cases.* Doing so could exclude cases for which the hospital has no diagnostic tissue reports. Cases diagnosed elsewhere but treated at your facility and those diagnosed radio-graphically or clinically only, without tissue confirmation, would be missed during casefinding unless additional resources are employed. It is essential to include review of the Medical Record Disease Index (usually provided by Health Information Management) and other tracking tools such as medical and radiation oncology clinic logs to ensure that all reportable cases are identified. You should form an alliance with staff from the aforementioned departments to establish and develop a systematic method to routinely receive necessary information from them.

Reportable List for Casefinding

A link to the SEER table listing reportable diagnoses for casefinding is posted on the MCR website <https://cancerregistry.missouri.edu/>

Diagnoses are listed by ICD-10-CM codes which can be used by facilities to identify which cases to include on their MRDI casefinding lists. The list is updated annually to ensure that any new applicable codes are added.

Cases That Must Be Reported

- ◆ Refer to the “SEER Casefinding list” noted above when conducting casefinding activities. Depending on how casefinding is conducted, not all codes will be used by all facilities.
- ◆ Malignancies with a behavior code (fifth digit of the morphology code) of 2 or 3 in ICD-O-2 (cases diagnosed **prior** to January 1, 2001) or ICD-O-3 (cases diagnosed **on or after** January 1, 2001) or the Hematopoietic Database Appendix D, except as otherwise noted in this manual.
- ◆ Beginning with cases diagnosed **on or after** January 1, 2004, non-malignant primary intracranial and central nervous system tumors are required to be reported. See below for applicable sitecodes.

Topography Codes for Intracranial and Central Nervous System Tumors

Codes	Description
C70.0 – C70.9	Meninges
C71.0 – C71.9	Brain
C72.0 – C72.2	Spinal cord
C72.3—C72.5	Cranial nerves
C72.8-C72.9	Overlapping brain and CNS
C75.1	Pituitary gland
C75.2	Craniopharyngeal duct
C75.3	Pineal gland

- ◆ The following intraepithelial neoplasias grade -III (NPCR requirement) are reportable:
 - AIN III (C21.1) Anus**
 - VIN III (C51.*) Vulva**
 - VAIN III (C52.*) Vagina**
 - EIN III (C54.1) Endometrium**
 - LIN III (C50.*) Breast Lobular intraepithelial**
 - LN III (C50.*) Breast Lobular neoplasia**
 - PanIN III (C25.0) Pancreatic Intraepithelial neoplasia**
 - PeIN III (C60.*) Penile intraepithelial neoplasia**
 - SIN III Squamous intraepithelial neoplasia, high grade II or III**
- ◆ **Analytic cases.** Patients whose initial diagnosis was made at your facility and/or any part of the first course of treatment were delivered or prescribed at your facility. (Class of Case 00, 10, 11, 12, 13, 14, 20, 21,22)
- ◆ Patients diagnosed at a staff physician's office and receiving any or their entire first course of treatment in your facility (Class of Case 12)
- ◆ **Nonanalytic cases.** Patients diagnosed elsewhere who had all first course treatment elsewhere who were seen at your facility for diagnosis of recurrent disease or for treatment of relapsed, persistent or progressive disease; cases diagnosed prior to the facility's Reference Date and diagnosis or treatment was given by the reporting facility; diagnosis was established by autopsy at reporting facility and was unsuspected prior to death (Class of Case 32, 35, 37 and 38). Record all available information regarding the original diagnosis and treatment.
- ◆ Malignant tumors of the skin such as adnexal carcinoma/adenocarcinoma (8390/3-8420/3), lymphoma, melanoma, sarcoma, and Merkel cell carcinoma **must be reported**. Any carcinoma arising in a hemorrhoid is reportable, since hemorrhoids arise in mucosa, not in the skin.
- ◆ Early or evolving melanoma in-situ, or any other early or evolving melanoma, is reportable.
- ◆ Pilocytic/juvenile astrocytoma (9421) – All cases are to be collected as a behavior /1 for all CNS sites.
- ◆ As of 01/01/2021, all GIST tumors are reportable and classified as 8936/3 in ICD-O-3.2
- ◆ Nearly all thymomas are reportable as of 01/01/2021. The behavior code is /3 in ICD-O-3.2. The exceptions are microscopic thymoma or thymoma benign (8580/0), micronodular thymoma with lymphoid stroma (8580/1), and ectopic hamartomatous

thymoma (8570/0).

- ◆ Carcinoid tumors of the appendix (C18.1) must be coded 8240/3 effective in 2015.
- ◆ Lobular carcinoma in situ (LCIS) of breast is REPORTABLE for NPCR and SEER.
- ◆ Mature teratoma of the testes in adults is malignant and REPORTABLE as 9080/3 but continues to be non-reportable in prepubescent children (9080/0). The following provides additional guidance:
 - Adult is defined as post puberty.
 - Pubescence can take place over several years.
 - Do not rely solely on age to indicate pre or post puberty status. Review all information (physical history, etc.) for documentation of pubertal status. When testicular teratomas occur in adult males, pubescent status is likely to be stated in the medical record because it is an important factor of the diagnosis.
 - Do not report if unknown whether patient is pre or post pubescence. When testicular teratoma occurs in a male and there is no mention of pubescence, it is likely that the patient is a child, or pre-pubescent, and the tumor is benign.
- ◆ Low-grade appendiceal mucinous neoplasm (LAMN) (8480/2) behavior changed to 2 effective with 2022 cases. It is now REPORTABLE.
- ◆ High-grade appendiceal mucinous neoplasm (HAMN) (8480/3) behavior changed to 3 effective with 2022 cases. It is now REPORTABLE.
- ◆ Intestinal-type adenoma high grade (8144/2) (C16-C17.9) is REPORTABLE for stomach and small intestines ONLY beginning 1/1/22.
- ◆ Serrated dysplasia, high grade (8213/2) (C16-C17.9) is REPORTABLE for stomach and small intestines ONLY beginning 1/1/22.
- ◆ Intraductal oncocytic papillary neoplasm, NOS (8455/2) (C25.0-C25.4, C25.7-C25.7) is a new code and REPORTABLE.
- ◆ Intraductal oncocytic papillary neoplasm, with associated invasive carcinoma (8455/3) (C25.0-C25.4, C25.7-C25.7) is a new coded and REPORTABLE.
- ◆ Adenocarcinoma, HPV-associated (8483/3) (C53.0-C53.1, C53.8-C53.9) is a new code and REPORTABLE.
- ◆ Adenocarcinoma, HPV-independent, NOS (8484/3) (C53.0-C53.1, C53.8-C53.9) is a new code and REPORTABLE.
- ◆ Myxoid pleomorphic liposarcoma (8859/3) is a new code.
- ◆ Gastroblastoma (8976/3) (C16.0-C16.9) is a new code.
- ◆ Mesonephric-like adenocarcinoma (9111/3) is a new code for ovary/corpus uterus.
- ◆ Round cell sarcoma with EWSR1-non-ETS fusions (9366/3) is new code.
- ◆ CIC-rearranged sarcoma (9367/3) is a new code.
- ◆ Sarcoma with BCPR genetic alterations (9368/3) is a new code.
- ◆ Papillary neoplasm, pancreatobiliary type with high grade intraepithelial neoplasia (8163/2) (C24.1) is now REPORTABLE.
- ◆ Squamous cell carcinoma, HPV-associated (8085/3) (C51.9, C52.9, C53.X) is REPORTABLE. Valid for C60. and C63.2 beginning 1/1/2024.
- ◆ Squamous cell carcinoma, HPV-independent (8086) (C51.9, C52.9, C53.X) is REPORTABLE. Valid for C60. and C63.2 beginning 1/1/2024.
- ◆ Adenocarcinoma, HPV-independent, gastric type (8482) is REPORTABLE.
- ◆ Adenocarcinoma, HPV-independent, clear cell type is REPORTABLE.
- ◆ Adenocarcinoma, HPV-independent, mesonephric type (9110) (C53.X, C56.9) is REPORTABLE.
- ◆ Pleomorphic lobular carcinoma in situ is a new code for in situ tumors only 2023 (8519/2).

- ◆ Cholangiocarcinoma is coded to 8160/3 as experts have determined adenocarcinoma and subtypes of adenocarcinoma cannot be primary to the liver and are therefore biologically impossible.
- ◆ Placental site trophoblastic tumor of testis has a behavior change from /1 to /3. These are REPORTABLE 1/1/2024 forward for the testis only.
- ◆ Post transplant lymphoproliferative disorder (PTLD) 9971/1 is REPORTABLE as 9971/3 as of 1/1/2025.

Site/Histology Validation lists can be found at <https://seer.cancer.gov/icd-o-3/>
ICD-O-3.2 Implementation Guidelines can be found at <https://www.naaccr.org/icdo3/>

Cases Not Required to Be Reported

- ◆ Skin cancers (site = C44. _ and histology = **8000-8005, 8010-8046, 8050-8084, 8090-8110** as of January 1, 2001)
- ◆ **CIS of the cervix and CIN III**
- ◆ **PIN III**
- ◆ Patients who have a history of cancer, but diagnosis or treatment were not performed at your facility. (Class of case 33)
- ◆ Patients who receive transient care to avoid interruption of therapy started elsewhere. (Class of case 31)
- ◆ Patients seen only in consultation to confirm a diagnosis. (Class of case 30)
- ◆ Pathology cases that are consultative readings of slides submitted from outside facilities. (Class of case 43)
- ◆ Class of Case 40, 41, 42, 49 or 99
- ◆ Colorectal tumors with the following morphologic description: Serrated dysplasia, high grade; Adenomatous polyp, high grade dysplasia; Tubular adenoma, high grade.
- ◆ Villous adenoma, high grade; Tubulovillous adenoma, high are NOT reportable.
- ◆ Microscopic thymoma benign (8580/0), micronodular thymoma with lymphoid stroma (8580/1) and ectopic hamartomatous thymoma (8587/0) are NOT reportable.
- ◆ Patients with **adenocarcinoma in situ** and **carcinoma in situ of the cervix**, cervical intraepithelial neoplasia (CIN) or prostatic intraepithelial neoplasia (PIN) are not reportable.
- ◆ Patients with a pre-cancerous condition or benign tumor (other than CNS sites stated above)
- ◆ Patients admitted to a hospice unit or home health care service.
- ◆ Patients above who are not reportable for your facility, but who die at your facility with active cancer, although not required may be reported to MCR. Cases not reported at the time of death may appear on a Death Certificate Only listing (list of patients who died at your facility with cancer but not listed in the MCR database), which requires additional follow- back by MCR and research by the registrar. A minimal abstract prepared with documentation of any available information regarding date of diagnosis, primary site, histology, or treatment is very useful.

Note: Your cancer committee may decide to require additional benign or borderline cases. Please do not submit these reportable-by-agreement cases to MCR.

Ambiguous Terms

Reportable cases and extent of disease are usually based on unequivocal statements made by recognized medical practitioners that the patient has a reportable diagnosis or extent of disease. However, physicians sometimes use vague or ambiguous terms to describe a tumor when its behavior is uncertain. In instances where pathology or cytology findings cannot definitively confirm a cancer diagnosis or when imaging studies show inconclusive results, physicians may state the diagnosis or extent of disease in ambiguous terms. Various registry manuals apply ambiguous term rules differently for different purposes. MCR has added a listing below to assist you in understanding the four differences.

Reportability of such a diagnosis depends on the verbiage used. For a cancer case to be reportable, the ambiguous term must always include a reference to the reportable diagnosis being described, e.g., favors **carcinoma** or suspicious for **malignancy**. When the diagnosis is stated in only ambiguous terms throughout the patient record, use the tables below to determine whether a particular case should be reported. Report cases that use words on the list even if the suffix is different such as favor(ed) rather than favor(s).

Note: Synonyms of these terms do not constitute diagnosis.

Ambiguous terms that ARE diagnostic for REPORTABILITY

Apparent (ly)	Most likely
Appear (s)	Neoplasm or Tumor (2004+ brain/CNS)
Comparable (with)	Presum (ed)
Compatible (with)	Probable
Consistent (with)	Suspect (ed)
Favors	Suspicious (for)
Malignant appearing	Typical (of)

Exception: Do not consider CYTOLOGY with ambiguous terms (such as suspicious) a diagnosis of cancer. Abstract the case only if a positive biopsy or a physician's clinical impression of cancer supports the cytology findings.

Example: Discharge summary and X-ray results report "CT of the chest *compatible with* carcinoma of left lung." Although there may be no further work-up or treatment, the case is radiographically diagnosed and **is reportable**.

Example: The only documentation says "likely" carcinoma. Because it does not say "most likely," it **is not reportable**.

Ambiguous Terms that ARE NOT diagnostic for REPORTABILITY

Cannot be ruled out	Questionable
Equivocal	Rule out
Possible	Suggests
Potentially malignant	Worrisome

Example: Barium enema (BE) reveals a sigmoid mass suspicious for neoplasm. Colonoscopy reveals a sigmoid mass, “possible malignant neoplasm.” The patient is referred for biopsy and colon resection at another facility revealing carcinoma. The case is **NOT reportable** for your facility because mass and neoplasm are not associated with a reportable malignant term, whereas if it had been stated “suspicious sigmoid mass, probable malignant neoplasm,” it would be reportable.

Do **not** code histology or subtypes/variants described by the following ambiguous terms unless a case is accessioned (reportable) based on ambiguous terminology and no other histology information is available/documentated.

Ambiguous Terms NOT used for Solid Tumor Rules unless a case is accessioned (reportable) based on this ambiguous terminology alone

- Apparent (ly)
- Appears (to)
- Comparable with
- Compatible with
- Consistent with
- Favors
- Malignant appearing
- Most likely
- Presumed
- Probable
- Suspect (ed)
- Suspicious (for)
- Typical of

Ambiguous Terms for Tumor Spread – Summary Stage 2018

Ambiguous terminology is sometimes used in the medical record to describe tumor spread. For SEER Summary Stage assignment, the registrar should first follow-up with the physician to obtain clarification on his/her definition of the terms used. When the physician is not available, check the medical record for any other clearer statements of tumor spread, including how the tumor was treated. As a **last resort** use the list below (unless specific chapters in the SEER Summary Stage 2018 manual direct otherwise)

Ambiguous Terms USED for Summary Stage 2018 involvement

- Adherent
- Apparent(ly)
- Appears (to)
- Comparable with
- Compatible with

Consistent with
 Contiguous/continuous with
 Encroaching upon
 Extension to, into, onto, out ontoFeatures of
 Fixation to a structure other than primary
 Fixed to another structure
 Impending perforation of
 Impinging upon
 Impose/imposing on
 Incipient invasion
 Induration
 Infringe/infringing Intruding
 Into Intrude Most likely
 Onto Overstep Presumed Probable Protruding into
 Suspect(ed)
 Suspicious (for)
 To
 Up to

Ambiguous Terms NOT used for 2018 Summary Stage involvement

Abuts	Worrisome
Approaching	
Approximates	
Attached	
Cannot be excluded/ruled out	
Efface/effacing/effacement	
Encased/encasing	
Encompass(ed)	
Entrapped	
Equivocal	
Extension to without invasion of/involvement of	
Kiss/kissing	
Matted (except for lymph nodes)	
Possible	
Questionable	
Reaching	
Rule Out	
Suggests	
Very close to	

Examples: When a lung cancer encases the esophagus, the esophagus is not staged as involved (per table) but if a head and neck cancer encases the internal carotid artery, the chapter rules apply and there is distant involvement.

Ambiguous Terms per STORE 2026

Although MCR does not require TNM staging, the STORE Manual does give guidelines for **last resort** use by registrars **for staging**. For convenience, terms they define have been listed below.

Ambiguous Terms USED for Staging (STORE last resort)

Adherent	Into
Apparent(ly)	Onto
Compatible with	Out onto
Consistent with	Probable
Encroaching upon	Suspect(ed)
Fixation/fixed	Suspicious (for)
Induration	To

Ambiguous Terms NOT used for Staging (STORE last resort)

Approaching	Questionable
Equivocal	Suggests
Possible	Very close to

DETERMINING PRIMARY TUMORS

When potential cases are identified through the casefinding process, it is important to determine whether they represent new reportable primaries, or whether they are actually pointing to cases previously accessioned into the cancer registry database. The *Multiple Primaries and Histology Coding Manual* contains all rules for determining multiple primaries for solid tumors for all cases (except hematopoietic primaries) diagnosed January 1, 2007, through December 31, 2007. For cases 2018 and forward use the Solid Tumor Coding Rules. For cases diagnosed prior to 2007, multiple primaries are determined according to instructions which are included in Appendix A of this manual. For determining multiple primaries of hematopoietic origin diagnosed on or after January 1, 2010, refer to the *Hematopoietic and Lymphoid Neoplasm Case Reportability and Coding Manual* and the Hematopoietic Database which can be found at <https://seer.cancer.gov/tools/heme/>

Multiple Primaries for Solid Tumors

The Solid Tumor Manual contains site-specific rules to apply in specific sequence for deciding whether multiple reportable primaries are present. Site-specific rules are subdivided into modules according to whether the case involves single or multiple tumors, or it is unknown whether multiple tumors are present in the primary site. **It is essential** to read the General Instructions and the site-specific Equivalent Terms and Definitions of the Solid Tumor Manual before using the site-specific coding rules. Further instructions for using the rules are listed on the following pages.

A. General Information

1. Use these rules to determine the number of reportable primaries. Do **not** use these rules to determine case reportability, stage, or grade.
2. Read the General Instructions and the site-specific Equivalent Terms and Definitions before using the multiple primary rules.
3. **Notes** and **examples** are included with some of the rules to **highlight key points** or to add **clarity** to the rules.
4. **Do not use** a physician's statement to decide whether the patient has a recurrence of a previous cancer or a new primary. Use the multiple primary rules as written **unless a pathologist compares** the present tumor to the "original" tumor and states that this tumor is a recurrence of cancer from the previous primary.
5. Multiple primary rules do not apply to tumors described as metastases.

B. How to use Solid Tumor Coding Rules (formerly known as Multiple Primary and Histology Rules)

1. Use the Solid Tumor Coding Rules to determine the **number of primaries** to abstract and the histology to code for cases diagnosed 1/1/2018 and forward.
2. The **Solid Tumor Rules** provide new site-specific instructions for:
 - Non-malignant CNS
 - Malignant CNS and peripheral nerves - **new** instructions for Pilocytic Astrocytoma – All cases are to be reported with behavior /1 unless high-grade astrocytoma with piloid features or HGAP only
 - Breast - Clarification of Rule M10: Abstract a single primary if multiple tumors of carcinoma NST/duct and lobular. Applicable H rules for lobular/ductal tumors have been revised. Rule M5 says to code new tumors if patient has a subsequent tumor after being disease free for greater than 5 years.
 - Breast - New Note 6: subsequent tumor in chest wall, muscle or skin and no residual breast tissue is a recurrence and not a new primary.
 - Colon
 - Head and neck - Table 9 redesigned for easier use.
 - Kidney
 - Lung
 - Urinary Sites
 - **New Rule M8 has been added to assist in coding single melanoma with 2 subtypes.**
3. Use the **Other Sites** rules for solid malignant tumors that occur in primary sites not covered by the site-specific rules. - **Site-Specific histology tables added. Review the 2026 Solid Tumor Rules Revision History**
4. Each module (Unknown if Single or Multiple Tumors, Single Tumor, Multiple Tumors) is an independent, complete set of coding rules.

To determine which set of primary site rules to use:

 - a. When there is no tumor in the primary site, only metastatic lesions are present:
 - I. Use the primary site documented by a physician and use the multiple primary and histology coding rules for that primary site.
 - II. If no primary site is documented, code the primary site as unknown and use the general multiple primary and histology coding rules. Use the “Unknown if Single or Multiple Tumors” module to determine multiple primaries.
 - b. To choose the appropriate module (Unknown if Single or Multiple Tumors, Single Tumor, Multiple Tumors):
 - I. Use the multiple primary and histology coding rules for the primary site.
 - II. Determine the number of tumors.
 - ◆ Do not count metastatic lesions.
 - ◆ When the tumor is only described as multicentric or multifocal and the number of tumors is not mentioned, use the “Unknown if Single or Multiple Tumors” module.
 - ◆ When there is a tumor or tumors with separate microscopic foci, ignore the separate microscopic foci and use the “Single Tumor” or “Multiple Tumor” modules as appropriate.
 - ◆ When the patient has a single tumor, use the “Single Tumor” module.
 - ◆ If there are multiple tumors, use the “Multiple Tumor” module.
 - III. See the Equivalent Terms and Definitions for Head and Neck for guidance in coding the primary site.
 - IV. Use the primary site documented by the physician on the medical record.
5. If a single primary, prepare one abstract.
6. If there are multiple primaries, prepare two or more abstracts.
7. Rules are in hierarchical order within each module (Unknown if Single or Multiple Tumors, Single

Tumor, and Multiple Tumors). Use the first rule that applies and **STOP**.

8. Three new tables have been added to the Histology Code Rules:

- Table 9a Guidelines for Assigning Primary Site for Liver and Intrahepatic Bile Duct
- Table 22 Thymus Histologies
- Table 23 Penis and Scrotum Histologies

Multiple Primary Rules for Hematopoietic Cases

Beginning with cases diagnosed January 1, 2010, multiple primaries for hematopoietic cases are determined according to rules set forth in the *Hematopoietic and Lymphoid Neoplasm Case Reportability and Coding Manual* and the Hematopoietic Database which can be found at <https://seer.cancer.gov/tools/heme/>

Training modules are also available at this site and are highly recommended. To access the information applicable to a given year, use the diagnosis year drop down list for the chosen histology.

The rules manual is navigated in a 5-step process:

1. Search the database for a provisional site and histology code.
2. Use the Case Reportability Instructions to determine if the case is reportable.
3. If so, go to the Multiple Primary Rules
4. Go to the Primary Site & Histology Rules (for every primary). Consult the database only when the rules specify to do so.
5. Use the Grade of Tumor Rules

For hematopoietic cases diagnosed prior to 2010, use the tables in Appendix A of FORDS to decide whether differing hematopoietic histologies represent one or more primaries. Primary site and timing are not applicable for determining whether these malignancies represent one or more primaries.

Chapter 4

FIRST COURSE OF THERAPY

Definitions

Treatment or therapy for cancer is meant to modify, control, remove, or destroy cancer tissue (cancer-directed treatment). Therapy can be used to treat cancer tissue in primary or metastatic site(s), regardless of the patient's response to that treatment. The first course of therapy should include all cancer-directed treatments indicated in the initial treatment plan and delivered to the patient after initial diagnosis of cancer. Multiple modalities of treatment may be included, and therapy may include regimens lasting a year or more. The treatment plan specifies the types of cancer-directed therapies proposed to eliminate or control the patient's disease. Treatment intentions may be found in discharge summaries, consultations, and outpatient records. All cancer-directed therapies (surgery, radiation, chemotherapy, hormone therapy, immunotherapy, or other therapy) documented in the physician's treatment plan and administered are included in the first course of therapy.

All Malignancies Except Leukemias

The first course of treatment includes all therapy planned and administered by the physician(s) during the first diagnosis of cancer. Planned treatment may include multiple modes of therapy and may encompass intervals of a year or more. Treatment given specifically for tumor progression or recurrence, and treatment started when there is failure of the initial course of therapy are considered subsequent treatment.

Leukemias

The first course of treatment includes all therapies planned and administered by the physician(s) during the first diagnosis of leukemia. Record all remission-inducing or remission-maintaining therapy as the first course of treatment. Treatment regimens may include multiple modes of therapy. The administration of these therapies can span a year or more. A patient may relapse after achieving the first remission. All therapy administered after the relapse is secondary or subsequent treatment.

Time Periods for First Course of Treatment (FCT)

The Date of First Course of Treatment is the earliest of *Date of First Surgical Procedure*, *Date Radiation Started*, *Date Systemic Therapy Started*, *Date Other Treatment Started* or the date the decision for no treatment was documented. **When the date is an approximation, use April for "Spring" July for "Summer" or "mid-year" and October for "Fall."** If

the diagnosis and/or treatment was late in the year or early in the year, use December or January with the applicable year.

- ◆ **No treatment:** No treatment is considered a treatment option and may represent the first course of therapy. Reason for no treatment should be entered in the appropriate treatment field. If no treatment is given, record the date of the decision not to treat or the date the patient expired if the patient died before treatment could be given. If “active surveillance” is the only treatment, record the date of that decision.
- ◆ If there is no documented treatment plan and no other treatment guidelines are established, evaluate the therapy and the time it began in relation to the diagnosis date. If the therapy is a part of an established protocol or within accepted guidelines for the disease, consider it the first course of therapy.
- ◆ If there is no treatment plan, established protocol, or management guidelines, and consultation with a physician advisor is not possible, use the principle: “initial treatment must begin within one year of the date of initial diagnosis.”
- ◆ If FCT systemic treatment regimen is changed due to an adverse reaction, follow these guidelines:
 - If the new chemotherapy drug(s) is in the same subcategory as the initial therapy (i.e.: anti-metabolite, alkylating agent, etc.) it is considered continuation of the first course of treatment. Some drugs overlap categories (alkaloid-antimetabolite) and are considered in the same category if either term matches the original sub-category.
 - If the drug(s) is not in the same group, it is no longer the first course of therapy.
 - If the patient fails to respond to treatment and the regimen is changed, it is no longer first course of treatment. Lists of drugs and their classification(s) are available at <https://seer.cancer.gov/seertools/seerrx/>

Example: Patient A is started on a planned course of Tamoxifen (anti-estrogen). It is effective, but she does not tolerate the drug side effects and is changed to Arimidex (aromatase inhibitor). This starts a new course of therapy because the two hormone drugs are not in the same subcategory.

Example: Patient B starts on Aromasin (aromatase inhibitor). It is effective but she is changed to Arimidex (aromatase inhibitor) for insurance reasons. That is still first course of therapy because both hormone drugs are in the same subcategory.

Example: Physician plans a combination regimen of chemotherapy. Velban is one of the drugs but, after several cycles, it is replaced with Oncovin due to adverse reaction. The treatment continues as first course of therapy because Oncovin and Velban both act as alkaloids. Conversely, if Velban had been replaced with Fludara, it is no longer first course of therapy because Fludara is an anti-metabolite.

Example: Physician plans a regimen of Adriamycin/Cytoxan. The patient does not respond so the treatment is changed to Methotrexate/5FU. Because the initial treatment failed, the new chemotherapy regimen is coded as subsequent treatment.

- ◆ If the first course treatment plan changes due to an improvement in tumor burden, the added treatment is still considered first course.

Example: Palliative chemotherapy/radiation is recommended and administered per 1st course treatment plan. Initially resection of tumor was contraindicated due to tumor size and location. Follow up imaging shows improvement in tumor burden; treatment plans changed since tumor is now resectable. Even though the primary tumor resection was not noted in the first course treatment plan, the resection would be captured as 1st course treatment since there was no progression of tumor. Palliative care includes care received in hospice.

Rx Summ—Treatment Status

Per STORE, this data item summarizes whether the patient received any treatment or if the tumor was under active surveillance. The item was added to document active surveillance (watchful waiting) and to eliminate searching each treatment modality to determine whether treatment was given. It is used in conjunction with *Date of First Course of Treatment* to document whether treatment was or was not given, it is unknown if treatment was given, or treatment was given on an unknown date.

Instructions for Coding

- ◆ This item may be left blank for cases diagnosed prior to 2010.
- ◆ Treatment given after a period of active surveillance is considered subsequent treatment, and it is not coded in this item.
- ◆ Use code 0 when treatment is refused, or the physician decides not to treat for any reason such as the presence of comorbidities.
- ◆ Assign code 0 when the patient does not receive any treatment.
Scope of Regional Lymph Node Surgery may be coded 0, 1-7, or 9
- ◆ Assign code 2 when Active Surveillance is the only treatment administered.
- ◆ Assign code 1 when the patient receives treatment collected in any of the following data items:
 - a. Surgery of Primary Site
 - b. Surgical Procedure of Other Site
 - c. Radiation Treatment Modality, Phase I, II, III
 - d. Chemotherapy
 - e. Hormone Therapy
 - f. Immunotherapy
 - g. Hematologic Transplant and Endocrine Procedure
 - h. Other Therapy

Surgical Diagnostic and Staging Procedures (Non Cancer-Directed Surgery)

Surgical diagnostic and staging procedures such as biopsies, thoracentesis, and bypasses do not modify or destroy cancer cells. Surgical procedures that aspirate, biopsy or remove regional lymph nodes to diagnose and/or stage disease are to be entered in *Scope of Regional Lymph Node Surgery*, not in this field.

Surgical Treatment

If surgery was the only type of first course treatment performed or was the first of multiple treatments, Date of First Surgical procedure is the same as the date of First Course treatment. When multiple first course procedures are performed for a primary site, the most definitive (most invasive) procedure is usually but not always the last performed.

- Codes A/B100 through A/B190 are site-specific tumor destruction procedures that do not produce a pathological specimen.
- Codes A/B200 through A/B800 are site-specific surgical resection procedures.
- A980 applies to specific tumors that cannot be clearly defined in terms of a primary site.
- For codes A/B000 through A/B790, the descriptions of the surgical procedures are hierarchical. The numeric code sequence may deviate from the order in which the descriptions of the surgical procedures are listed.

INITIAL ABSTRACT

Identification Information

In the chapters that follow, this manual lists both standard field names and **Web Plus** software field names where there are differences. Please be aware that a given standard setter or software may display field names slightly differently.

Reporting Hospital/Facility Number (Reporting Facility)

The number entered in this data field is used by the central registry to identify the facility reporting the case(s). The 10-digit institution ID number assigned by the Cancer Department of the American College of Surgeons (ACoS) **must** be right justified and preceded by zeros if less than 10 characters. For facilities with a 7-digit number (6-digit number preceded by a constant 6), this number would be right justified and preceded by 3 zeros. Some software can be programmed to auto code this field.

NPI—Reporting Facility

NPI numbers are no longer available and are considered protected information.

Accession Number + Sequence Number

The accession number is assigned by the reporting facility and provides a unique identifier for the patient consisting of the year in which the patient was first seen at the reporting facility and the consecutive order in which the tumor was abstracted. This data item protects patient identity and allows cases to be identified on a local, state, and national level.

Instructions for Coding

- ◆ The first four digits specify the **year** in which the patient was first diagnosed or treated for cancer at the reporting hospital. The next **five** digits designate the numerical order in which the patient was entered into the registry database.
- ◆ The reporting facility assigns **only one** accession number to each patient for life, even if additional primary cancers are diagnosed. Additional primary cancers are represented

by the “sequence number” component of the accession number. The sequence number represents the number of **primary cancers** a patient may have during his lifetime. ‘00’ indicates the first and only primary cancer; ‘01’ would indicate the first of more than one primary cancer; ‘02’ indicates the second of two or more primary cancers; ‘03’ denotes the third of three or more cancers; etc.

- ◆ A patient's accession number is not reassigned after a case is voided.
- ◆ A patient retains the original accession number even when the registry reference year changes. If a new primary is discovered, the sequence number is updated accordingly.

Sequence Number(s)

This data item indicates the sequence of malignant and nonmalignant neoplasms over the lifetime of the patient.

The **sequence** (first, second, third, etc., primary) for the primary cancer being reported is represented by a **two-digit number**.

Note: Accession number - 202400034-00 - signifies that the patient was first diagnosed or treated at the reporting hospital in calendar year 2024 and that this patient is the 34th patient entered into that hospital's registry for the year 2024. The 00 (sequence number) denotes that this cancer is the first and only primary malignant or *in situ* cancer for this patient.

Note: Patient is diagnosed and treated for breast cancer in 2024. The patient has a documented history of cervical cancer in 2007. The sequence number for the breast cancer is 02.

Note: A patient is first diagnosed at the reporting facility in 2005 with breast cancer. The accession number assigned is 200500032-00. In 2024 the patient is seen at the same facility for treatment of a newly diagnosed colon cancer. The accession number remains 200500032, but the sequence number is coded 02 for the colon cancer. Sequence 00 (the breast cancer) should be changed to 01 (first of more than one primary cancer).

Instructions for Coding

The decision regarding which sequence number to assign a neoplasm depends upon its behavior code at the time of diagnosis. Codes 00-59 and 99 indicate the sequence of neoplasms of *in situ* or malignant behavior (2 or 3) at the time of diagnosis. Codes 60-88 indicate the sequence of non-malignant tumors. Neoplasms which are reportable by agreement, either by MCR or your facility's cancer committee, follow these same guidelines.

- ◆ Codes 00-59 and 99 indicate neoplasms of malignant (*in situ* or invasive) behavior (Behavior equals 2 or 3)
- ◆ Codes 60-88 indicate neoplasms of non-malignant behavior (Behavior equals 0 or 1)
- ◆ Code 00 only if the patient has a single malignant primary. If the patient develops a subsequent invasive or *in situ* primary tumor, change the code for the first tumor from 00 to 01, and number subsequent tumors sequentially.
- ◆ Code 60 only if the patient has a single non-malignant primary. If the patient develops a subsequent non-malignant primary, change the code for the first tumor from 60 to 61, and assign codes to subsequent non-malignant primaries sequentially.

- ◆ Sequence numbers are assigned in the order diagnosed. If two or more invasive or in situ neoplasms are diagnosed at the same time, assign the lowest sequence number to the diagnosis with the worst prognosis. If no difference in prognosis is evident, the decision is arbitrary.
- ◆ Any tumor in the patient's past that meets the reportable code criteria for MCR must be taken into account when sequencing subsequently accessioned tumors, regardless of where it was diagnosed. If the prior tumor had a behavior code of 2 (in situ) or 3 (malignant), and the current tumor is also behavior code 2 or 3, assign a sequence code in the 02-59 range. An intracranial or central nervous system tumor (diagnosed 01/01/2004 or later) with a behavior code of 0 (benign) or 1 (borderline) is assigned a sequence code in the range of 60-88
- ◆ Do not include past non-reportable skin cancers in sequencing. If the patient had a previous non-reportable skin cancer, please document that in a text field.
- ◆ Sequence numbers should be reassigned if the facility learns later of an unaccessioned tumor that affects the sequence.

Personal History 1 & 2 (MO Personal Hx 1, 2)

These data items record up to two known primary tumors **other than the current primary being abstracted**. This would include tumors diagnosed prior to, concurrently with or subsequent to the one being reported. Not counting the current tumor, enter the ICDO-3 site code of the earliest **other** primary in the Personal Hx 1 field and the next other primary in the Personal History 2 field. Please document any additional primaries in the Remarks text. Leave these fields blank when the patient has only one reportable tumor.

Sequence # of Current Abstract	Personal Hx 1/yr 1	Personal Hx 2/yr 2
00	Blank	Blank
01 (1 of 2)	Seq 02	Blank
02 (2 of 2)	Seq 01	Blank
02 (2 of 3 or more)	Seq 01	Seq 03
03 (3 of 3)	Seq 01	Seq 02
03 (3 of 4 or more)	Seq 01	Seq 02

Year 1 & 2 (MO Year 1,2)

Record the 4-digit year of diagnosis of the primary coded in the Personal History 1 field and, if applicable, the year of diagnosis for the Personal History 2 field. Record any additional primaries in the Remarks text field. Year is required when Personal History is required, as above. It is left blank when there is no previous history. If the year is unknown, it maybe coded 9999. The year for the primary site being abstracted is not recorded here.

Example: C619/2005 for Personal History 1, C679/2015 for Personal History 2

Name - Last

Record the patient's last name. Mixed-case, embedded spaces hyphens and apostrophes are allowed.

Name - First

Record the patient's first name. Mixed-case, embedded spaces are allowed. Special characters are not allowed.

Name - Middle

Record the patient's middle name. Middle initial may be used if full middle name is not available. Leave blank if no middle name/initial is given. Mixed case and embedded spaces are allowed, special characters are not.

Name – Birth Surname

This can be used to link reports on a person whose surname might be different on different documents. It is also useful when using a Spanish surname algorithm to categorize ethnicity.

The field should be left blank if the birth surname is not known or not applicable. Since a value in this field may be used by linkage software or other computer algorithms, only legitimate surnames are allowable, and any variation of "unknown" or "not applicable" is not allowable.

Name - Alias

Many patients use a name different from their given name. If the patient uses an alias for the first name, record only the first name alias. If a patient uses an alias for the last name, record the last name alias. If a patient uses an alias for the first and last name, record both the last name and first name alias. Do not use commas.

Address at Diagnosis - Number and Street

The address at diagnosis can provide information to identify possible cancer clusters for environmental and epidemiological studies and provide essential information for public health activities.

- ◆ Record the patient's number and street address at the time the cancer was diagnosed or treated. Mixed case and embedded spaces are allowed. Special characters are limited to periods, slashes, hyphens, and pound signs. Standard abbreviations may be used. If no street address is available, record "UNKNOWN." **DO NOT LEAVE BLANK**
- ◆ It may be necessary to use "UNKNOWN" if the correct Address at Diagnosis is not

known. (e.g., Class of Case is 30, 31, 32, 43, or 49)

- ◆ Do not indicate a temporary residence.
- ◆ Use the school address for college students.
- ◆ Children in boarding schools (below college level) are considered residents of their parents' home.
- ◆ Use the address where a transient or homeless person resided at the time of cancer diagnosis, i.e., shelter or diagnosing facility.

Address at Diagnosis – Supplemental

Record any additional address at diagnosis information such as name of nursing home or apartment complex. If both a street and a PO Box are known, put the PO Box here.

Address at Diagnosis – City/Town

Record the city or town of the patient's address at the time of cancer diagnosis. If the city is unknown, record UNKNOWN. **DO NOT LEAVE BLANK.**

State at Diagnosis

Record the U. S. postal service two-letter state abbreviation for the state of residence at cancer diagnosis. Use the two-letter abbreviation for patients whose residence at diagnosis was a Canadian province:

Abbreviations for Canadian province and (territories) See STORE Appendix C for more Country Codes.

Province/Territory	Code	Province/Territory	Code
Alberta	AB	Nunavut	NU
British Columbia	BC	Ontario	ON
Manitoba	MB	Prince Edward Island	PE
New Brunswick	NB	Quebec	PQ
Newfoundland and Labrador	NL	Saskatchewan	SK
Northwest Territories	NT	Yukon	YT
Nova Scotia	NS	Canada, province unknown	CD

Use the following codes when the state or province is unknown or not applicable:

- ◆ US = Resident of United States, NOS (state/commonwealth/territory/possession unk)
- ◆ XX = Resident of country other than U.S. (including its territories, commonwealths, or possessions) or Canada and the country is known
- ◆ YY = Resident of country other than U.S. (including its territories, commonwealths, or possessions) or Canada and country is unknown
- ◆ ZZ = Resident of the U.S., NOS; Canada, NOS; residence unknown

Postal Code at Diagnosis

For U.S. residents record the 5-digit zip code and the 4-digit extension (if known) for the patient's address at diagnosis, left justify the field. For Canadian residents, use the 6-character alphanumeric postal code; left justify the field. Record 888888888 if the patient is a resident of a country other than Canada, United States or U.S. possessions and the postal code is not known. Record 999999999 if the patient is a resident of Canada, United States or U.S. possessions but the postal code is unknown, or residence is unknown. Consult the zip code list at: <http://health.mo.gov/data/geocodes/index.php>.

County at Diagnosis Reported

Code the county of the patient's residence at the time the tumor was diagnosed. For U.S. residents, standard codes are those of the FIPS publication "Counties and Equivalent Entities of the United States, Its Possessions, and Associated Areas." If the patient has multiple tumors, the county codes may be different for each tumor. A list of DHSS geocodes for Missouri counties is posted at <https://health.mo.gov/data/geocodes/index.php>. <https://www.unitedstateszipcodes.org/> is a good resource for finding county information.

- ◆ Code 998 If known town, city, state, or country of residence but county code not known AND a residence is outside of the state of Missouri. (must meet all criteria)
- ◆ Code 999 if county of residence at diagnosis is unknown or for non-US residents.
- ◆ Use code 186 for Ste. Genevieve County (per FIPS – 12/15/1979)

Address Current

Patient Address Current (Number and Street)

City/Town Current

State—Current

Postal Code – Current (Zip Code)

County—Current

These data items provide a current address, otherwise the rules for coding are as above. It may be a different address from *Patient Address at Diagnosis*.

When recording addresses that are incomplete in the medical record you may find the following references helpful:

<https://www.zipinfo.com/search/zipcode.htm>

<https://tools.usps.com/go/ZipLookupAction!input.action>

Medical Record Number

The medical record number is assigned by the reporting facility and identifies the patient. This field may contain numbers, letters, or a combination of both. If the record number is less than 15 characters, **right**justify the entry.

- ◆ If number is unknown record 9s. If no number, record zeros
- ◆ Departments within the hospital not using the hospital record number may be recorded using standard abbreviations:

Radiation Therapy ----- **RT**

Out-patient Surgery ----- **SU**

Name of Spouse / Parent / Contact Person

Record the name (last and first) of the patient's spouse. If the patient is a minor child, record the name of one parent (last, first). If the patient is not a minor child or has no spouse, a relative, friend, or other contact person may be entered. Leave blank if not given. (This is not a required field.)

Abstracted By

This is a three-character field used to identify the hospital registrar that abstracted the cancer case. **Do not leave blank or use 'XXX' or other indications for Unknown.** In some software this field will fill automatically based on your log-in.

Social Security Number

Record the patient's Social Security Number, if known. Use 9's if the patient does not have a social security number or if the social security number is not available. **Please double check your entry for accuracy.**

Telephone Number

This field records the current telephone number with area code for the patient, when available.

Code	Definition
(fill spaces)	Number is entered without dashes
0000000000	Patient does not have a telephone
9999999999	Telephone number is unavailable or unknown

MO Alcohol History

Code the patient's current or past use of alcoholic beverages, such as wine or beer, using the following codes:

Code	Definition
0	No history of alcohol usage
1	Current use of alcohol (any use of alcohol including social use)
2	Past history of alcohol usage, no current usage
9	Unknown

MO Tobacco History

Code the patient's current or past usage of tobacco, using the codes:

Code	Definition
0	Never smoked
1	Cigarette smoker, current
2	Cigar/pipe smoker, current (including waterpipe)
3	Snuff, chew, smokeless tobacco, current
4	Combination use, current
5	Previous tobacco usage, patient quit more than 31 days of cancer diagnosis
9	Unknown

E-cigarettes **do not** qualify as tobacco use.

Years of Tobacco Use

Record the number of years the patient has smoked or used tobacco products, using 2 digits. Record actual years of tobacco use. (Pack years can be used only if it is also documented the patient smoked 1-pack per day). The number of years can be estimated based on available information. using 16 years old as the starting age (e.g., if the patient is 76 YO and has smoked his entire life, then 60 years would be a conservative estimate). If no information is available, enter 9s and if the patient has never smoked, enter zeroes.

Tobacco Use Smoking Status 2023+

<u>Code</u>	<u>Label</u>
0	Never Smoker
1	Current Smoker
2	Former Smoker (Patient quit more than 31 days of cancer diagnosis)
3	Smoker, current status unknown
9	Unknown if ever smoked

Toxic Exposure

- ◆ List, as text, any reported exposure to known carcinogens when documentation is available in the medical record.
- ◆ Enter up to 3 types of toxic exposures.
- ◆ Leave blank if unknown. For instance, when there is no reference to or documentation of toxic exposure in the medical record.

Marital Status at Diagnosis

Code the patient's marital status at time of initial diagnosis. Marital status may be a different status for each primary a patient may have. This item can also be useful for patient identification. Use the following codes:

Code	Definition
1	Single (never married)
2	Married (includes common law)
3	Separated
4	Divorced
5	Widowed
6	Unmarried or Domestic Partner (same or opposite sex, registered or unregistered, other than common law marriage)
9	Unknown

Sex [220] is being replaced by Sex Assigned at Birth [225] 2026

Code the patient's sex assigned at birth.

- When Sex is not known:
 - Assign code 1 when the primary site is C600-C639.
 - Assign code 2 when the primary site is C510-C589.
 - Assign code 9 for primary sites not included above.
- Assign code 9 for patients born with Disorders of Sexual Development and sex is not clearly defined.

Use the following codes: 1, 2, or 9 only!

Old Code	Definition	New Code	Definition
1	Male	1	Male
2	Female	2	Female
3	Other (intersex)	9	Not stated/Unknown
4	Transsexual, NOS	9	Not stated/Unknown
5	Transsexual, natal male	1	Male
6	Transsexual, natal female	2	Female
9	Not Stated/Unknown	9	Not stated/Unknown

Race 1 – 5

Race 1 identifies the primary race of the person and is the field used to compare with race data on cases diagnosed prior to January 1, 2000. For multi-racial patients, use Race 2-5 fields to code additional races following the instructions below. The race codes listed below correlate closely to categories used by the U.S. Census Bureau to allow calculation of race specific incidence rates.

- ◆ If only one race is reported for the person, enter the appropriate code from the table below and enter 88 in the Race 2 – Race 5 fields.
- ◆ “Race” is analyzed with *Spanish/Hispanic Origin*. Both items must be separately recorded
- ◆ All tumors for the same patient should have the same race codes.

- ◆ If Race 1 is coded 99, Unknown, Race 2 through Race 5 must be coded 99.
- ◆ Persons of Mexican, Puerto Rican, or Cuban origin are usually white.
- ◆ If a person's race is recorded as multiracial, code the appropriate other race in the Race 1 field and code white in the next race field.
- ◆ If a person's race is recorded as a combination of Hawaiian and any other race (s), code the person's primary races, Hawaiian and code the other races in Race2, Race 3, Race4, and Race 5 as appropriate
- ◆ Otherwise, code Race 1 to the first stated non-white race (codes 02-98)
- ◆ When the race is recorded as "Oriental" or "Asian" and the place of birth is recorded as China, Japan, the Philippines, or another Asian nation, code the race based on birthplace information. For example: If the person's race is recorded as "Asian," and the place of birth is recorded as "Japan," code race as 05
- ◆ Do not code "Asian" in a subsequent race field if a specific Asian race has already been coded

Code	Label	Code	Label
01	White	17	Pakistani
02	Black	20	Micronesian, NOS
03	American Indian or Alaska Native	21	Chamorro
04	Chinese	22	Guamanian, NOS
05	Japanese	25	Polynesian, NOS
06	Filipino	26	Tahitian
07	Native Hawaiian	27	Samoan
08	Korean	28	Tongan
10	Vietnamese	30	Melanesian, NOS
11	Laotian	31	Fiji Islander
12	Hmong	32	Papua New Guinean
13	Cambodian	96	Other Asian, including Asian, NOS
14	Thai	97	Pacific Islander, NOS
15	Asian Indian, NOS or Pakistani, NOS	98	Some other race
16	Asian Indian	99	Unknown by patient

Examples:

Code	Reason
01	A patient was born in Mexico of Mexican parentage. Code also Spanish/Hispanic Origin
02	A black female patient
05	A patient has a Japanese father and a Caucasian mother. (Caucasian will be coded in Race 2)

Spanish/Hispanic Origin

This code identifies whether or not the person should be classified as “Hispanic.”

Code	Description
0	Non-Spanish; Non-Hispanic
1	Mexican (includes Chicano)
2	Puerto Rican
3	Cuban
4	South or Central American (except Brazil)
5	Other specified Spanish/Hispanic origin (includes European; excludes Dominican Republic)
6	Spanish, NOS; Hispanic, NOS; Latino, NOS; (There is evidence other than surname or maiden name that the person is Hispanic, but he/she cannot be assigned to categories 1-5)
7	MCR use, reporting registrars need not use surname code
8	Dominican Republic
9	Unknown whether Spanish/Hispanic or not; not stated in patient record

Date of Birth (Birth Date)

Instructions for Coding

- ◆ Record the patient’s date of birth as indicated in the patient record. For single-digit day or month, record with a lead 0 (for example, September is 09). Use the full four-digit year. ***Please doublecheck your entry for accuracy.***
- ◆ For *in utero* diagnosis and treatment, record the actual date of birth. It will follow one or both dates for those events.
- ◆ Date of Birth does not allow blanks
- ◆ **The traditional format for Date of Birth is MMDDCCYY, with 99 identifying unknown month or day, and 99999999 representing an entirely unknown date.**

All date data items allow blanks **EXCEPT** for the following:

1. Date of Birth
2. Date of Diagnosis
3. Date of last Contact or Death

Birthplace, State and Country

When available, record the patient's place of birth (state and country separately) using the codes in your software (STORE 2025 page 51).

Age at Diagnosis

This field is generally programmed by software vendors to be auto calculated once date of birth and date of initial diagnosis are entered.

Lifetime Occupation

This data item is applicable to patients who are **14** years or older at the time of diagnosis and is reported in text only.

- ◆ If available, record the patient's usual (longest held) occupation before diagnosis of this tumor.
- ◆ If the patient had several jobs over a lifetime, record the occupation engaged in for the longest period of time.
- ◆ If the patient is retired and the lifetime occupation is not known, do not record retired, record "unknown."
- ◆ If the patient was a housewife/househusband and also worked outside the home, record the occupation outside the home.
- ◆ If the patient was a housewife/househusband and never worked outside of the home, record "homemaker," "housewife," or "househusband" (Industry: "own home")
- ◆ If the patient was NOT a student or homemaker, and never worked, record "never worked," or "never employed" (Industry: "none")
- ◆ Record "unknown" if no information is available. **DO NOT LEAVE BLANK**

Type of Industry

This data item pertains to patients 14 years or older at the time of diagnosis and is reported in text only.

- ◆ If available, record the primary type of business activity performed by the company where the patient was employed for the greatest number of years.
- ◆ Distinguish whether the industry is involved in manufacturing, wholesale, retail, or service, etc.
- ◆ If the primary activity is unknown, it may be appropriate to record the name of the company and the city or town. The central registry office may use the name of the company and the city or town to determine the type of business activity performed.
- ◆ Record “unknown” if no information is available. **DO NOT LEAVE BLANK**

Date of 1st Contact

Record the date of first contact with the reporting facility for diagnosis and/or treatment of this cancer. The date may be the date of an outpatient visit for a biopsy, x-ray, or laboratory test, or the date a pathology specimen was collected at the hospital.

This data item can be used to measure the time between first contact and the date that the case was abstracted. It can also be used to measure the length of time between the first contact and treatment for quality-of-care reports.

Instructions for Coding

- ◆ Record the date as completely as possible. Leave any unknown portions of the date blank
- ◆ Record the date the patient first had contact with the facility as either an inpatient or outpatient for diagnosis and or first course treatment of a reportable tumor. The date may be the date of an outpatient visit for a biopsy, x-ray, or laboratory test, or the date a pathology specimen was collected at the hospital.

Example: Patient with a self-detected breast lump comes into your facility for a mammogram on 3/1/2021, and results are suspicious for malignancy. On 3/5/2021 patient returns for excisional biopsy which reveals ductal carcinoma. Date of 1st Contact will be 3/1/2021 (date of mammogram)

- ◆ For autopsy-only or death certificate-only cases, use the date of death.
- ◆ When a patient is diagnosed in a staff physician’s office, the date of first contact is the date the patient was physically first seen at the reporting facility for treatment.
- ◆ For analytic cases (Class of Case 00-22), the Date of First Contact is the date the patient became analytic. For non-analytic cases, it is the date the patient first qualified for the Class of Case that causes the case to be abstracted.

Institution Referred To

Institution Referred From

The hospital referred to/from fields uses a 10-digit FIN to record the institution to or from which the patient was referred for further care. Number must be right justified with leading zeroes (i.e., 0006630999).

0000000000 Patient was not referred by or to another facility

0000999998	Unspecified in-state hospital
0000999994	Unspecified out of state hospital
0000999996	Physician office
0000999995	Non-hospital, NOS
9999999999	It is unknown whether the patient was referred from or to another facility; The patient was referred, but referring facility is unknown

Medicare Beneficiary Number

Record the patient's Medicare Beneficiary Number in this field.

Primary Payer at Diagnosis

Identify the primary payer/insurance carrier at the time of initial diagnosis and/or treatment.

Instructions for Coding

- ◆ If the patient is diagnosed at the reporting facility, record the payer at the time of diagnosis.
- ◆ If the patient is diagnosed elsewhere or the payer at the time of diagnosis is not known record the payer when the patient was initially admitted for treatment
- ◆ Record the type of insurance reported on the patient's admission page.
- ◆ If more than one payer or insurance carrier is listed on the patient's admission page, record the first one.
- ◆ If the patient's payer or insurance carrier changes, do not change the initially recorded code.

Code	Label	Definition
01	Not insured	Patient has no insurance and is declared a charity write-off.
02	Not insured, self-pay	Patient has no insurance and is declared responsible for charges.
10	Insurance, NOS	Type of insurance unknown or other than the types listed in codes 20, 21, 31, 35, 60–68.
20	Private insurance: Managed Care, HMO, or PPO	An organized system of prepaid care for a group of enrollees usually within a defined geographic area. Generally formed as one of four types: a group model, an independent physician association (IPA), a network, or a staff model. "Gate-keeper model" is another term for describing this type of insurance.
21	Private insurance: Fee-for-Service	An insurance plan that does not have a negotiated fee structure with the participating hospital. Type of insurance plan not coded as 20.
31	Medicaid	State government administered insurance for persons who are uninsured, below the poverty level, or covered under entitlement programs. Medicaid other than described in code 35.

Code	Label	Definition
35	Medicaid administered through a Managed Care plan	Patient is enrolled in Medicaid through a Managed Care program (for example, HMO or PPO). The Managed Care plan pays for all incurred costs.
60	Medicare without supplement, Medicare, NOS	Federal government funded insurance for persons who are 65 years of age or older, or are chronically disabled (Social Security insurance eligible). Not described in codes 61, 62, or 63.
61	Medicare with supplement, NOS	Patient has Medicare and another type of unspecified insurance to pay costs not covered by Medicare.
62	Medicare administered through a Managed Care plan	Patient is enrolled in Medicare through a Managed Care plan (for example, HMO or PPO). The Managed Care plan pays for all incurred costs.
63	Medicare with private supplement	Patient has Medicare and private insurance to pay costs not covered by Medicare.
64	Medicare with Medicaid eligibility	Federal government Medicare insurance with State Medicaid administered supplement.
65	TRICARE	Department of Defense program providing supplementary civilian-sector hospital and medical services beyond a military treatment facility to military dependents, retirees, and their dependents. Formerly CHAMPUS (Civilian Health and Medical Program of the Uniformed Services).
66	Military	Military personnel or their dependents who are treated at a military facility.
67	Veterans Affairs	Veterans who are treated in Veterans Affairs facilities.
68	Indian/Public Health Service	Patient who receives care at an Indian Health Service facility or at another facility, and the medical costs are reimbursed by the Indian Health Service. Patient receives care at a Public Health Service facility or at another facility, and medical costs are reimbursed by the Public Health Service.
99	Insurance status unknown	It is unknown from the patient's medical record whether or not the patient is insured.

Examples:

Code 61: Patient is known to have Medicare with a supplement, but the type of supplement is unknown.

Code 62: Patient has Medicare managed plan (Medicare C or Medicare Advantage. Medicare managed care plan takes the place of original medical plan and should be listed first and is usually only insurance as a HMO, PPO, etc.

Code 63: Patient has Medicare A (Inpatient and B (outpatient/DME) with a private supplement to cover costs outside of Medicare A and B. Medicare should be listed on patient's face sheet as the first insurance with the commercial or supplement listed second. If Medicare is listed first with Medicaid listed second, use code 64.

Class of Case

This data element is designed to separate the reporting registry's cancer cases into **analytic** and **nonanalytic** categories. MCR requires facilities to report both analytic and non-analytic cases with Class of Case codes 00, 10,11,12,13, 14, 20, 21, 22, 32, 35, 37, and 38.

Instructions for Coding

- ◆ Code the *Class of Case* that most precisely describes the patient's relationship to the facility.
- ◆ Code 00 applies only when it is known that the patient went elsewhere for treatment. If it is not known that the patient actually went somewhere else, code *Class of Case* 10
- ◆ It is possible that information for coding *Class of Case* will change during the patient's first course of care. If that occurs during the abstracting process, change the code accordingly as new information becomes available in the patient record or from other facilities.
- ◆ Document *Institution Referred To* for patients coded 00, 13 to establish that the patient went elsewhere for treatment. Document *Institution Referred From* for patients coded 20-22 to establish that the patient came from elsewhere.
- ◆ A staff physician (codes 10-12, 41) is a physician who is not employed by the reporting facility, but who has routine practice privileges there.
- ◆ Physicians who are not employed by the hospital but are under contract with it or have routine admitting privileges there are described in codes 10-12 and 41 as physicians with admitting privileges. Treatment provided in the office of a physician with admitting privileges is provided "elsewhere". That is because care given in a physician's office is not within the hospital's realm of responsibility.
- ◆ If the hospital purchases a physician practice, it will be necessary to determine whether the practice is now legally considered part of the hospital (their activity is coded as the hospital's) or not. If the practice is not legally part of the hospital, it will be necessary to determine whether the physicians involved are staff physicians or not, as with any other physician.
- ◆ Code Class of Case 34 or 36 for intraepithelial neoplasia grade III (8077/2) or (8148/2) of prostate (PINIII), Vulva (VINIII), vagina (VAVINIII), anus (AINIII) and squamous intraepithelial neoplasia (SINIII) as these **are not required by CoC but required by Missouri**.
- ◆ "In-transit care" is care given to a patient who is temporarily away from the patient's usual practitioner for continuity of care. They are Class of Case 31 (not reportable to MCR). Monitoring of **oral** medication started elsewhere is also Class of Case 31 (not reportable to MCR). If the patient begins first course radiation or chemotherapy **infusion** elsewhere and continues at the reporting facility, the case is not in-transit; the case is analytic (Class of Case 21) and reportable to MCR.

Analytic Classes of Case

Initial diagnosis at reporting facility or staff physician's office

Code	MCR status	Definition
00	Reportable	Initial diagnosis at the reporting facility AND all treatment or a decision not to treat was done elsewhere
10	Reportable	Initial diagnosis at the reporting facility or in an office of a physician with admitting privileges AND part or all of first course treatment or a decision not to treat was at the reporting facility, NOS
11	Reportable	Initial diagnosis in an office of a physician with admitting privileges AND part of first course treatment was done at the reporting facility
12	Reportable	Initial diagnosis in an office of a physician with admitting privileges AND all first course treatment or a decision not to treat was done at the reporting facility
13	Reportable	Initial diagnosis at the reporting facility AND part of first course treatment was done at the reporting facility; part of first course treatment was done elsewhere
14	Reportable	Initial diagnosis at the reporting facility AND all first course treatment or a decision not to treat was done at the reporting facility

Initial diagnosis elsewhere

Code	MCR status	Definition
20	Reportable	Initial diagnosis elsewhere AND all or part of first course treatment was done at the reporting facility, NOS
21	Reportable	Initial diagnosis elsewhere AND part of first course treatment was done at the reporting facility; part of first course treatment was done elsewhere
22	Reportable	Initial diagnosis elsewhere AND all first course treatment or a decision not to treat was done at the reporting facility

Nonanalytic Classes of Case*Patient appears in person at reporting facility*

Code	MCR status	Definition
30	Not reportable	Initial diagnosis and all first course treatment elsewhere AND reporting facility participated in diagnostic workup (for example, consult only, treatment plan only, staging workup after initial diagnosis elsewhere)
31	Not reportable	Initial diagnosis and all first course treatment elsewhere AND reporting facility provided transient (temporary) care or hospital provided care that facilitated treatment elsewhere (for example, stent placement)
32	Reportable	Diagnosis AND all first course treatment provided elsewhere AND patient presents at reporting facility for diagnosis or treatment of any subsequent disease recurrence or persistence (active disease)
33	Not reportable	Diagnosis AND all first course treatment provided elsewhere AND patient presents at reporting facility with disease history only (disease not active)
34	Reportable	Cases reportable to MCR but not COC (for example, breast LCIS, AIN III, VIN III, VAIN III) AND initial diagnosis AND part or all of first course treatment by reporting facility
35	Reportable	Case diagnosed before program's Reference Date AND initial diagnosis AND all or part of first course treatment by reporting facility
36	Reportable	Cases reportable to MCR but not CoC (for example, breast LCIS, AIN III, VIN III, VAIN III) AND initial diagnosis elsewhere AND all or part of first course treatment by reporting facility
37	Reportable	Case diagnosed before program's Reference Date AND initial diagnosis elsewhere AND all or part of first course treatment by facility
38	Reportable	Initial diagnosis established by autopsy at the reporting facility, cancer not suspected prior to death

Patient does not appear in person at reporting facility (could be reportable by agreement)

40	Not reportable. Diagnosis AND all first course treatment given at the same staff physician's office
41	Not Reportable, Diagnosis AND all first course treatment given in two or more different office of physicians with admitting privileges
42	Not Reportable. Non-staff physician or non-CoC accredited clinic or other facility, not part of reporting facility, accessioned by reporting facility for diagnosis and/or treatment by that entity
43	Not reportable. Pathology or other lab specimens only
49	By MCR request, Death certificate cases only
99	Not reportable, Nonanalytic case of unknown relationship to facility

Examples of Classes of Case:

Code	MCR status	Case Description
00	Reportable	During an Emergency Department visit for seizure, CT showed a high-grade brain lesion, probable glioblastoma. Patient was transferred to a local cancer hospital for further work-up and treatment.
10	Reportable	Patient underwent TRUSP with biopsies in his physician's office, and the

pathology showed Gleason 3-3 adenocarcinoma. He was admitted to the reporting facility for DiVinci prostatectomy.

31	Not Reportable	Patient receiving 5 day a week XRT at an outside facility was seen at the reporting facility for two of her scheduled treatments due to equipment failure at the referring hospital. She completed her treatments at the original facility after repairs were made.
----	----------------	---

Type of Reporting Source

Code the source of information used to abstract the majority of information on the tumor being reported. This data item is used by the central registry to assist in the measurement of case reporting from all facilities.

Code	Definition
1	Hospital inpatient, managed health plans with comprehensive, unified medical records (incl. VA)
2	Radiation Treatment Centers or Medical Oncology Centers (hospital-affiliated or independent)
3	Laboratory only (hospital-affiliated or independent)
4	Physician office/private medical practitioner (LMD)
5	Nursing/convalescent home; hospice
6	Autopsy only
7	Death certificate only (used by MCR)
8	Other hospital outpatient units and surgery centers equipped with general anesthesia

Code	Definition
1	Hospital inpatient, managed health plans with comprehensive, unified medical records (incl. VA)
2	Radiation Treatment Centers or Medical Oncology Centers (hospital-affiliated or independent)
3	Laboratory only (hospital-affiliated or independent)
4	Physician office/private medical practitioner (LMD)
5	Nursing/convalescent home; hospice
6	Autopsy only
7	Death certificate only (used by MCR)
8	Other hospital outpatient units and surgery centers equipped with general anesthesia

COC Accredited Flag

CoC-accredited facilities are required to collect certain data items including TNM staging. It is burdensome for central registries to maintain a list of accredited facilities, and the list changes frequently. The flag is a means of incorporating the accredited status into abstracts at the time of abstraction by someone who has knowledge of the status. Your software may be set up to auto-code this field.

TEXT FIELDS

MCR frequently receives abstracts from multiple facilities that must be consolidated into one case. Thus, abstracts must contain corroborating text in order for MCR to assure that what is entered into the MCR database is the most accurate information for each case reported. The operative concept here is “corroborating.” That is, text must provide the rationale for selecting the codes assigned to primary site, histology, extent of disease and treatment fields. It’s not necessary to strive for great literary expression. Brief, meaningful comments are all it takes to tell us what we need to know.

Text is also evaluated in some data quality audits to ensure coding accuracy and completeness. Missing or inadequate text to support the coded fields results in unnecessary errors affecting final statistical results of an audit.

Please try to use standard abbreviations. A good resource is: <https://apps.naaccr.org/data-dictionary/data-dictionary/version=26/chapter-view/>

One way to improve your text is to fill in the text fields first as you abstract, then code fields from that information. While it may feel awkward at first, it will show you how important accurate text is to MCR. These required text fields are considered in our QA and auditing processes, so good text entries may save you questions later.

Tips:

- ◆ Enter relevant information only. Any information copied and pasted from another document should be edited to be pertinent and succinct.
- ◆ Include only information that the registry is authorized to collect (Think HIPAA)
- ◆ If information is unavailable, state so in the text.
- ◆ Using all upper case (CAPS) is NOT necessary.
- ◆ Text fields expanded from 400 to 1,000 characters.

Text – Dx Procedure - Physical Exam (Text–DX Proc– PE)

Enter findings from the physical exams which are pertinent to the primary being reported. Key findings to record include:

- ◆ The size and location of any obvious lesions or palpable masses
- ◆ The size and location of any palpable lymphadenopathy or the absence of palpable lymph nodes
- ◆ For lymphomas, the presence of any ‘B’ symptoms (weight loss, fever, night sweats)
- ◆ For prostate, DRE results
- ◆ For melanomas, the diameter of the primary lesion, if no primary skin lesion is found, state this.
- ◆ State age, race and sex. If the patient’s first name is not typical for the sex, please make a note that sex has been verified correct.

- **Example 1:** 61 YO WM, DRE – ca not suspected; no LAD
- **Example 2:** 35 YO BF, 1 cm mass UOQ rt breast; no palp axillary LAD
- **Example 3:** 54 YO bilat cervical nodes; axillary nodes on left; no groin LAD, night sweats
- **Example 4:** [for unknown primary] 25 YO WM, PE-WNL

Text – Dx Procedure - X-rays/Scans (Text – DXProc – X-ray/scan)

State the date and results of imaging studies used to diagnose and/or stage the primary. Just listing the tests without describing the findings is not at all useful. Key findings to record include:

- ◆ Name of the exam, including the body parts being imaged and the date and place the test was done.
- ◆ Size and/or location of any positive findings that support the values coded for primary site, summary stage, surgery to primary or other sites.
- ◆ When no positive findings are found, state as such.
- ◆ Telling where the test was done may support class of case.
 - **Example 1:** 3/17/24 brain MRI here – 2 cm probable meningioma R temporal lobe
 - **Example 2:** 1/20/24 CT Boone: 3 cm RUL lesion; pleural effusion; mediastinal LAD; multi liver mets
 - **Example 3:** 2/1/24 CT Barnes – multi liver mets; PET showed uptake in liver only; no primary found
 - **Example 4:** 2/15/24 mamm locally – lg irregular mass outer left breast susp for malignancy; 2/22/24 here - bone scan neg

Text – Dx Procedure – Scopes (Text – DX Proc – Scopes)

State any findings (including negative findings) that support values coded for primary site, summary stage, surgery to primary or other sites. Key elements to record include:

- ◆ Name of exam and date test completed.
- ◆ Location and nature of tumor involvement
- ◆ Note whether a biopsy taken during the procedure and what the results showed.
 - **Example 1:** 3/9/21 colonoscopy showed obstructing lesion in proximal sigmoid. bx pos
 - **Example 2:** 2/11/21 endo showed ulcerating mass in upper esophagus. bx pos

Text - Lab Tests (Text – Dx Proc – Lab Tests)

Record only the findings relevant to confirming the diagnosis or summary stage. For sites where lab tests don't have particular bearing on diagnosis or stage, enter n/a. Types of cases where lab results are pertinent are listed below.

- ◆ Colon/rectum (CEA)
- ◆ Liver (AFP)
- ◆ Skin melanoma (LDH)
- ◆ Mycosis fungoides (Peripheral Blood Involvement)
- ◆ Breast (ERA/PRA/HER2 FISH)
- ◆ Ovary (CA-125)
- ◆ Cervix & Anus, Vulva 2024+ (p16)
- ◆ Prostate (PSA)
- ◆ Testis (AFP/ hCG/LDH)
- ◆ Hematopoietic (When no bone marrow exam is done) - (Heme profile/peripheral bloodsmear)

Rx Text - Surgery (Rx Text – Surgery)

State the surgery date and the specific name of the procedure(s) reflected in the coded values in the surgery fields. It is also helpful to include the name of the facility where the procedure was done.

- ◆ **Example 1:** [Lung - Code 33] 3/21/24 - RLL lobectomy w/mediast LN dissec @ St John's
- ◆ **Example 2:** [Ovary - Code 57] 1/22/24 TAH-BSO w/omentectomy @ Mayo Clinic
- ◆ **Example 3:** [Bladder – Code 22] 3/22/24 TURB w/fulguration @ Skaggs

Text- OP (Text – Dx Procedure – OP)

This field is used to record details about findings from the operative procedure(s) and may include the following:

- ◆ Information from the operative report describing extent of disease and/or the extent of the surgery. Describe any findings that reflect date of diagnosis, the coded values for summary stage and treatment codes.
 - **Example 1:** 2/15/25 at colon resection, wedge excision of liver met was performed.
 - **Example 2:** 1/27/25 omental mass and tumor studding debulked with 3 cm residual disease on diaphragm.
- ◆ Sequence of surgical events that explains unusual circumstances.
 - **Example:** 12/10/24 core needle bx; MRM planned but was delayed due to acute pancreatitis. MRM done 3/22/25

Text - Dx Procedure – Pathology (Text – DX Proc – Path)

Describe the pathology findings from all procedures that serve to confirm the diagnosis date, histology, summary stage, surgery primary site, surgery other site and scope of regional lymph node surgery. When available, the following should be included:

- ◆ Type of specimen (i.e., biopsy or resection) and anatomical source of tissue
- ◆ Histologic type stated in the final diagnosis from the pathology report.
- ◆ Tumor size and extent
- ◆ Number of regional lymph nodes examined and number of positive nodes.
- ◆ Status of non-primary tissue submitted, i.e., involved/notinvolved.
- ◆ Status of final surgical margins
- ◆ Any comments by the pathologist that clarifies the final diagnosis.
 - Example 1: RUL lobectomy – 3.2 cm MD sq cell ca; pleura not involved; 1/6 mediastinal nodes pos. margins free
 - Example 2: left lobectomy - .7 cm follicular ca extension thru thyroid capsule; 2/26/25 completion thyroidectomy - .5 cm rt lobe papillary ca; no node exam; margins free
 - Example 3: rt cervical node excision – follicular b-cell lymphoma; bone marrow pos
 - Example 4: sigmoid w/3.5 cm mucinous adenoca extends into pericolonic fat; 2/18 nodes pos. liver bx neg
 - Example 5: per pathologist, tumor is identical to that seen in the original resection specimen

Text - Staging

State the findings that are the basis for each value coded in the MCR required stage fields. It is only necessary to address the criteria met for the code assigned, e.g., if a lung primary has both supraclavicular (N3) and hilar (N1) nodes involved, mention only the N3 nodes in the text. This text box should be used to justify SSDI (Site-specific Data Item) field codes also. The SEER Summary Stage 2018 can be documented in this text field.

- ◆ Example 1: 2.3 cm, confined to breast tissue; 0/3 SLN involved; Summary Stage 2018 1 - Localized
- ◆ Example 2: Malig pleural effusion, mediastinal LN pos, liver mets on CT; Summary Stage 2018 Stage 7- Distant
- ◆ Example 3: Liver bx revealed metastatic poorly diff adenocarcinoma of unknown primary. No info on primary site; nodes clinically neg; no other distant mets; Summary Stage 2018 9 – Unknown
- ◆ Example 4: 3.5 cm lobular carcinoma in UOQ left breast; margins neg; 03/15 axillary nodes pos. Summary Stage 2018 3 – Regional to lymph nodes

Text - Remarks

This field can be used to describe information coded but not described elsewhere in the text, for example as smoking and alcohol use, personal cancer history and family cancer history. Coding problems, unavailable information, unusual circumstances regarding treatment timing and the like can be discussed here. This field can also be used for overflow text from other fields.

- ◆ **Example 1:** Pt seen in ER 3/1/25 and CT chest diagnosed multiple bilat lung nodules, probable malignancy; Pt expired in ER, no other info available.
- ◆ **Example 2:** Pt Hx of mantle RT for Hodgkin's; 20 yrs tobacco use, quit 1988
- ◆ **Example 3:** Outside path says sigmoid, outside op note states descending colon so site was coded C18.8

Text - Place of Diagnosis

Record the facility where the initial diagnosis was made, if known, or state if unknown.

Rx Text - Radiation (Beam) and Rx Text -Radiation Other

State the treatment dates, modality, dose, volumes (sites) treated and place RT was given. If treatment was planned but it is unknown whether it was given, state this in the text. If no RT was given, state the reason.

- ◆ **Example 1:** [Prostate] 12/14/24 Pd-103 seed implant @ StJohn's
- ◆ **Example 2:** 3/2 – 3/12/25 3000 cGy to brain mets @ St John's
- ◆ **Example 3:** RT not recommended

RX Text - Chemo, RX Text - Hormone, RX Text - BRM, and RX Text - Other

State the treatment date, agents given, and place treatment was given.

- ◆ **Example 1:** CHOP x 4 plus Rituxan started 3/8/24; Rx @ Skaggs
- ◆ **Example 2:** Pt declined recommended Arimidex

Primary Site Title (Text – Primary Site Title)

Describe in text the exact site as coded in the Primary Site field. Include laterality if applicable.

- ◆ **Example:** Site code is C16.9 *description* = stomach, NOS
- ◆ **Example:** Site code is C71.1 and laterality code is 2. *Description* = left frontal lobe, brain

Histology Title (Text – Histology Title)

Describe the specific histology type as coded in the histologic type field. Include grade, if applicable.

- ◆ **Example:** Patient diagnosed with adenocarcinoma, poorly differentiated - Code: 8140/3 *description* = “adenocarcinoma, poorly differentiated”

Sample Text Entries

Here is what the text section of your finished abstract should look like:

- ◆ Text—DX Proc-PE: 83 yo white male w/2-week hx R supraclavicular node
- ◆ Text—DX Proc—X-ray/Scan: 2/8/25 CT chest – 5 cm malignant appearing R hilar mass; 3 cm supraclavicular node; liver, adrenals WNL
- ◆ Text—DX Proc—Scopes: 2/10/25 bronch bx: mass originating in RUL bronchus extending into R MSB
- ◆ Text—DX Proc—Lab Tests: n/a
- ◆ Text—DX Proc—Op: 2/10/25 local excision of supraclavicular node only; patient not otherwise a surgical candidate
- ◆ Text—DX Proc-Path: endobronch bx – PD sq cell ca; LN exc pos for mets sq cell
- ◆ Text—Staging: hilar tumor extn into MSB; positive N3 node; no distant mets
- ◆ RX Text—Surgery: supraclavicular node excision only
- ◆ RX Text—Radiation (Beam): 6300 total cGy to thorax; 2/22/25 – 3/19/25 at St. Paul’s
- ◆ RX Text—Radiation Other: none
- ◆ RX Text—Chemo: refused
- ◆ RX Text—Hormone: none
- ◆ RX Text—BRM: none
- ◆ RX Text—Other: none
- ◆ RX Text—Remarks: smoker x 60 yrs; pt has had CLL since 2013 – no Rx
- ◆ Text—Place of Diagnosis: St Paul’s

CANCER IDENTIFICATION

(for cases diagnosed before 2018, see Appendix A)

Primary Site

The primary site is defined as the organ or site in which the cancer originated or began. A *metastatic* site indicates that the primary (originating) tumor has spread from the original site to other areas in the body. Cancer registries **code only the primary site** in this field, using the ICD-O-3 manual and supplemental updated tables to determine the correct site code. Indications of metastatic sites are used in the registry for identifying the extent of the patient's disease and for staging purposes. Coding the primary site properly is very important, as many other field codes stem from it.

- ◆ Follow the Instructions for Coding in the current SEER Solid Tumor Rules to assign primary site codes for solid tumors.
- ◆ Primary site codes for lymphomas, leukemias and other hematopoietic neoplasms diagnosed **January 1, 2010, and after** are assigned according to instructions specified in the *Hematopoietic and Lymphoid Neoplasm Case Reportability and Coding Manual*. This manual may be downloaded from the SEER website at <https://seer.cancer.gov/tools/heme/> To determine primary site codes for cases diagnosed prior to 2010, follow instructions for coding in ICD-O-3, pages 20-40 and SEER's *Abstracting and Coding Guide for the Hematopoietic Diseases* (the "red book")
- ◆ The Cancer PathCHART ICD-O-3 Site Morphology Validation list is a comprehensive table that replaces both the ICD-O-3 SEER Site/Histology Validation list as well as the list of impossible site and histology combinations. This is used for topographical sites that have undergone the Cancer PathCHART review process. This means an edit will appear if the site and histology chosen are not considered a logical combination.

<https://seer.cancer.gov/cancerpathchart/search/>

Resources/Steps to Use for Coding Primary Site for Solid Tumors

1. ICD-O-3 Manual
 - Alpha index
 - Topography-Numerical
2. Solid Tumor Coding Rules
3. Program Manuals
 - STORE Manual
 - Missouri Cancer Registry Manual
4. SEER SINQ answers
5. Ask a SEER Registrar

It is important to identify the exact location of the primary tumor whenever possible, and to enter the most specific ICD-O-3 topography code listed into Primary Site field. The registrar should use all documents available in the medical record to determine the most specific site code, including pathology reports, scans, x-rays, MRIs, etc. The following points are helpful to consider when coding this field:

- ◆ Enter the specific subsite code whenever applicable.

Example: A patient is diagnosed with breast cancer. The path report reads *a malignant neoplasm of the right breast, upper outer quadrant*. It is correct to code **C50.4**, rather than breast, NOS - **C50.9**

- ◆ When a primary lesion occupies contiguous overlapping subsites within an organ and the exact point of origin cannot be determined, use .8 to code the subsite.

Example: Patient is diagnosed with colon cancer. The surgeon states that intraluminal tumor involved the colon from the cecum to the mid-ascending colon. Code **C18.8** - rather than coding the site to either the cecum or ascending colon.

Note: For skin cancers, overlapping sites in the head and neck ONLY: Assign the primary site code for the site where the epicenter is; do not use code C44.8.

- ◆ When the primary tumor is multifocal throughout an organ, or when there is no information identifying the subsite from which the primary tumor arose, use the code .9 to indicate the site, NOS.

Example: The pathology from a mastectomy specimen shows diffuse, multifocal ductal carcinoma throughout the breast. Code C50.9

Example: A patient with small cell lung cancer originally diagnosed and treated at an unknown facility is admitted for brain radiation for newly identified metastases. The only information available is a note stating, “Patient with 3-year history of SCLC here for XRT to brain mets.” Code C34.9

- ◆ When multiple tumors arising in different subsites of the same anatomic site are reported as a single primary and point of origin cannot be determined, code the last digit of the primary site to 9.

Example: Patient has an infiltrating duct tumor in the UOQ (C50.4) of the R breast, and another infiltrating duct tumor in the LIQ (C50.3) of the same breast. Code the primary site as C50.9.

- ◆ When the primary site is documented as an “unknown primary,” use code C80.9
- ◆ Kaposi’s Sarcoma is coded to the site in which it originates. Code to skin NOS (**C44.9**) if the disease arises simultaneously in the skin and another site, AND the primary site is not identified.

Primary Site Coding—Lymphomas

- ◆ Rules for determining topography codes for lymphomas diagnosed in 2010 and after are specified in *Hematopoietic and Lymphoid Neoplasm Case Reportability and Coding Manual*
- ◆ For cases diagnosed prior to 2010, use the guidelines found in Appendix A to determine the primary site codes for lymphomas.

Resources/Steps to Use for Coding Primary Site for Hematopoietic and Lymphoid Primaries

1. Hematopoietic and Lymphoid Neoplasm Coding Manual/Database
2. SEER SINQ answers
3. Ask a SEER Registrar
4. ICD-O-3.2 Manual

Histologic Type

The data item Histologic Type describes the microscopic composition of cells and/ or tissue for a specific primary site. The tumor type or histology is a basis for staging and determination of treatment options. It affects the prognosis and course of the disease. Histology code is recorded in two fields: Histology (92-00) ICD-O-2 for cases diagnosed prior to 2001 and Histologic Type ICD-O-3.2, used for all cases.

Record histology using the 4-digit morphology codes found in the appropriate reference as shown in the table on the following page.

Resources/Steps to Use for Coding Histology for Solid Tumors

1. Solid Tumor Coding Rules <https://seer.cancer.gov/tools/solidtumor/>
2. ICD-O-3.2 & Updates <https://seer.cancer.gov/icd-o-3/> and <https://www.naaccr.org/icdo3/>
3. SEER SINQ <https://seer.cancer.gov/seer-inquiry/>
4. Ask a SEER Registrar <https://seer.cancer.gov/registrars/contact.html>

Instructions for Coding

- ◆ Review all pathology reports related to the case.
- ◆ Code the **final** pathologic diagnosis for solid tumors
- ◆ The codes for cancer, NOS (8000) and carcinoma, NOS (8010) are **not** interchangeable. If the physician says that the patient has carcinoma, then code carcinoma, NOS (8010)
- ◆ Refer to Appendix A of this manual for cases diagnosed prior to January 1, 2007 See Chapter 3 of this manual for an introduction to these topics.

Malignant Solid Tumors 2018

Diagnosed January 1, 2018 & forward	#1 Solid Tumor Coding Rules #2 ICD-O-3.2 and updates
Diagnosed January 1, 2007 - 2017	#1 <i>Multiple Primaries and Histology Coding Manual</i> #2 ICD-O-3
Diagnosed January 1, 2001 - December 31, 2006	ICD-O-3
Diagnosed prior to 2001	ICD-O-2 (enter into historic ICD-O-2 field) AND ICD-O-3 (enter into ICD-O-3 histologic type field)

Benign/borderline Intracranial and Other CNS Tumors 2018

Diagnosed January 1, 2018, and forward	Solid Tumor Coding Rules
Diagnosed January 1, 2007 - 2017	#1 <i>Multiple Primaries and Histology Coding Manual</i> #2 ICD-O-3
Diagnosed January 1, 2004 - December 31, 2006	ICD-O-3
Diagnosed prior to 2004	Not reportable

Lymphomas, Leukemias and other Hematopoietic Malignancies

Diagnosed January 1, 2010, and forward	<i>Hematopoietic and Lymphoid Neoplasm Case Reportability and Coding Manual and the Hematopoietic Database</i>
Diagnosed January 1, 2001 – December 31, 2009	ICD-O-3
Diagnosed prior to 2001	ICD-O-2 (enter into historic ICD-O-2 field) AND ICD-O-3 (enter into ICD-O-3 histologic type field)

ICD-O-3 Conversion Flag

This code specifies how the conversion of morphology codes from ICD-O-2 to ICD-O-3 was accomplished. This information is used for some data analysis and for further item conversions. New versions of the codes used for recording histology and behavior reflect advances in medical and pathologic knowledge, and converted codes have a slightly different distribution and meaning than codes entered directly. Cancer registries record case histories over many years, so not all cases will originally be assigned according to the same code version.

Instructions for Coding

- ◆ Code 0 is used for newly abstracted cases and may be auto coded by the software provider.

Behavior Code

The behavior code occupies the fifth digit of the ICD-O morphology code and records the behavior of the tumor being reported. It is used by pathologists to describe whether tissue samples are benign (0), borderline (1), in situ (2), invasive (3), or metastatic (6). The cancer registry collects only **primary** sites. If the pathology report describes the cancer as metastatic, the registrar should be alerted that the primary site is not described in that report and must take steps to identify the primary site. In this situation, the behavior code is recorded 3 by the registry. Behavior codes 6 and 9 are not used by the hospital registry. Behavior code is recorded in two fields: Behavior (92-00) ICD-O-2 for cases diagnosed prior to 2001 and Behavior Code ICD-O-3 used for all cases to 2001 to present.

Note: The ICD-O-3 behavior code for juvenile astrocytoma (9421/1) is coded as 3 by agreement of the North American registry standard setters.

Code	Label	Definition
0	Benign	Benign
1	Borderline	Uncertain whether benign or malignant Borderline malignancy Low malignant potential Uncertain malignant potential
2	In situ and synonymous with in situ	Adenocarcinoma in adenomatous polyp no invasion of stalk Bowen disease (not reportable for C44.____) Clark level 1 melanoma (limited to epithelium) Comedocarcinoma, noninfiltrating (C50.____) Confined to epithelium Hutchinson melanotic freckle, NOS (C44.____) Intracystic, noninfiltrating (carcinoma) Intraductal (carcinoma) Intraepidermal, NOS (carcinoma) Intraepithelial, NOS (carcinoma) Involvement up to, but not including basement membrane Lentigo maligna (C44.____) Noninfiltrating (carcinoma) Noninvasive (carcinoma) No stromal invasion or involvement Papillary, noninfiltrating or intraductal (carcinoma) Precancerous melanosis (C44.____) Querat erythroplasia (C60.____)
3	Invasive	Invasive or microinvasive,

Example: Pathology report of breast biopsy reads: “ductal carcinoma in situ (8500/2) with areas of focal invasion (8500/3). This case should be coded to the invasive behavior **8500/3**.

Example: Pathology report of bladder biopsies reads: “Papillary urothelial carcinoma, non-invasive (8130/2 and Papillary transitional cell (8130/3) with invasion of the lamina propria.” This case should be coded to the invasive behavior.

Colon and rectal sites with high grade or severe dysplasia are reportable as behavior code 2 cases only if the pathologist states they are equivalent to carcinoma in situ and the reporting facility’s registry has a documented policy to this effect. Abstract text MUST document pathology as in situ carcinoma.

Grade Fields

Grade is a measure of the aggressiveness of the tumor. Grade and cell type are important prognostic indicators for many cancers.

The AJCC 8th Edition has specific grade tables listed for many chapters, some but not all of which follow the definitions of the historical standard grade data item Grade/ Differentiation [440] as used in cancer registries, which has been discontinued for 2018. **New data items have been defined for collection of Grade: Clinical, Pathological and Post Therapy [3843, 1068, 3844 and 3845, respectively].** New grade values and definitions differ based on the schema and use schema-specific grade tables. Each schema-specific grade table includes the standard (generic) grade definition for those cases where the schema-specific grading system is not available in the pathology report or other medical documentation.

Abstractors will need to consult the [Grade Coding Instructions and Tables 3.2 2024](#) which provides detailed information and coding instructions on the new grade data items and site/schema-specific grade tables https://www.naaccr.org/wp-content/uploads/2024/10/Grade-Coding-Instructions-and-Tables-v3.2_printed.pdf

Grade coding conventions vary according to site and are provided in hierarchical order. The AJCC Cancer Staging Chapter-specific grading systems (codes 1-5, L, H, M, S) take priority over the generic grade definitions (codes A-E, 8, 9). For those cases that are not eligible for AJCC staging, if the recommended grading system is not documented, the generic grade definitions would apply. Please read the section of the Grade Manual that explains coding guidelines for generic grade categories.

Resources/Steps to Use for Coding Grade

1. Review Site-specific Coding Notes in Grade Coding Manual or abstracting software
2. Review Grade Coding Manual (general rules)
 - Introduction to Changes in Grade Coding-Item Specific Data Dictionary/Coding Guidelines.
 - Table Specific guidelines
 - Use the grade tables to determine which tables applies.
3. Review/submit question to CAnswer Forum
 - SSDI/Grade forum

Grade Clinical

This data item records the grade of a solid primary tumor before any treatment (surgical resection or initiation of any treatment including neoadjuvant). Grades from some surgical procedures like transurethral resection of the bladder (TURB) and endoscopic biopsies are included as clinical because the procedures are not considered treatment.

Clinical grade is recorded for cases where a histological (microscopic) exam is done on available tissue and grade is stated. This includes FNA, biopsy, needle core biopsy, etc.

Note 1: Clinical grade must not be blank.

Note 2: Assign the highest grade from the primary tumor assessed during the clinical time frame.

Note 3: If there are multiple tumors with different grades abstracted as one primary, code the highest grade.

Note 4: Code 9 (unknown) when:

- Grade not documented.
- Clinical workup is not done (for example, cancer is an incidental finding during surgery for another condition)
- Grade checked “not applicable” on CAP Protocol (if available) and no other grade information is available.

Note 5: If there is only one grade available and it cannot be determined if it is clinical or pathological, assume it is a clinical grade and code appropriately per clinical grade categories for that site, and then code unknown (9) for pathological grade, and blank for **Grade Post Therapy Clin (yc)** and **Grade Post Therapy Path (yp)**.

Important: See the individual site-specific Grade Clinical tables in the grade manual for additional notes.

Grade Post Therapy Clinical (yc)

This data item records the grade of a solid primary tumor that has been microscopically sampled following neoadjuvant therapy or primary systemic/radiation therapy. If AJCC staging is being assigned, the tumor must have met the neoadjuvant therapy or primary systemic/radiation therapy requirements in the AJCC manual or according to national treatment guidelines.

Record the highest grade documented from the microscopically sampled specimen of the primary site following neoadjuvant therapy or primary systemic/radiation therapy.

For cases diagnosed January 1, 2021, and later, this data item, along with Grade Clinical, Grade Pathological, and Grade Post Therapy Path (yp), replaces NAACCR Data Item Grade [440] as well as SSF's for cancer sites with alternative grading systems (e.g., breast [Bloom-Richardson], prostate [Gleason]).

Grade is a measure of the aggressiveness of the tumor. Grade and cell type are important prognostic indicators for many cancers. Grade is required to assign the post-therapy stage group for some sites.

Note 1: Leave grade post therapy clinical (yc) blank when:

- No neoadjuvant therapy
- Clinical or pathological case only
- Neoadjuvant therapy completed; no microscopic exam is done prior to surgery/resection of primary tumor.
- There is only one grade available, and it cannot be determined if it is clinical, pathological, or post therapy.

Note 2: Assign the highest grade from the microscopically sampled specimen of the Primary site following neoadjuvant therapy or primary systemic/radiation therapy.

Note 3: In cases where there are multiple tumors abstracted as one primary with different grades, code the highest grade.

Note 4: Code 9 when:

- Microscopic exam is done after neoadjuvant therapy and grade from the primary site is not documented.
- Microscopic exam is done after neoadjuvant therapy and there is no residual cancer.
- Grade check “not applicable” on CAP protocol (if available) and no other grade information is available.

Important: See the individual site-specific Grade Post Therapy Clinical tables in the grade manual for additional notes.

Grade Pathological

This data item records the grade of a solid primary tumor that has been resected and for which no neoadjuvant therapy was administered. This may include the grade from the clinical workup, as all information from diagnosis (clinical staging) through the surgical resection is used for pathological staging. Record the highest grade documented from any microscopic specimen of the primary site whether from the clinical workup or the surgical resection.

Note 1: Grade Pathological must not be blank.

Note 2: There is a preferred grading system for this schema. If the Grade Clinical given uses the preferred grading system and the Grade Pathological does not use the preferred grading system, do not record the Grade Clinical in the Grade Path field.

Example: Biopsy of primary site shows a moderately differentiated adenocarcinoma. The surgical resection states a high-grade adenocarcinoma.

- ◆ Grade Clinical would be coded as G2 (code 2) since Moderately differentiated (G2) is the preferred grading system.
- ◆ Grade Pathological would be coded as 9 since the preferred grading system was not used and the Generic Grade Categories do not apply to this grade table.

Note 3: Assign the highest grade from the primary tumor.

Note 4: If there are multiple tumors with different grades abstracted as one primary, code the highest grade.

Note 5: Use the grade from the clinical work up from the primary tumor in different scenarios based on behavior or surgical resection.

- ◆ Behavior
 - Tumor behavior for the clinical and pathological diagnoses are the same AND the clinical grade is the highest grade.
 - Tumor behavior for clinical diagnosis is invasive, and the tumor behavior for the pathological diagnosis is in situ.
- ◆ Surgical Resection
 - Surgical resection is done of the primary tumor and there is not grade documented from the surgical resection.
 - Surgical resection is done of the primary tumor and there is no residual cancer.
 - Surgical resection of the primary tumor has not been done, but there is positive microscopic confirmation of distant metastases during the clinic time frame.

Note 6: Code 9 (unknown) when:

- Grade from primary site is not documented.
- No resection of the primary site (see exception in Note 5, Surgical resection, last bullet)
- Neo-adjuvant therapy is followed by a resection (see Grade Post TherapyPath (yp))
- Grade checked “not applicable” on CAP Protocol (if available) and no other grade information is available.
- Clinical case only (see clinical grade)
- There is only one grade available, and it cannot be determined if it is clinical or pathological.

Important: See the individual site-specific Grade Pathological tables in the grade manual for additional notes.

Grade Post Therapy Pathological (yp)

This data item records the grade of a solid primary tumor that has been resected following neoadjuvant therapy. If staging is assigned, the tumor must have met the surgical resection requirements in AJCC Cancer Staging System. Record the highest grade documented from the surgical treatment resection specimen of the primary site following neoadjuvant therapy.

Grade is a measure of the aggressiveness of the tumor. Grade and cell type are important prognostic indicators for many cancers. Grade may be required to assign the post neoadjuvant stage group for some sites.

Note 1: Leave grade post therapy path (yp) blank when:

- No neoadjuvant therapy
- Clinical or pathological case only
- Neoadjuvant therapy complete; surgical resection not done.
- There is only one grade available, and it cannot be determined if it is clinical, pathological or post therapy path.

Note 2: There is a preferred grading system for this schema. If the post therapy clinical grade given uses the preferred grading system and the post therapy pathological grade does not use the preferred grading system, do not record the Grade Post Therapy Clin (yc) in the Grade Post Therapy Path (yp) field.

Example: Neoadjuvant therapy is completed. Biopsy of primary site shows a moderately differentiated adenocarcinoma. The surgical resection shows a high-grade adenocarcinoma

- ◆ Grade Clinical Post Therapy (yc) would be coded as G2 (code 2) since Moderately Differentiated is the preferred grading system.
- ◆ Grade Path Post Therapy (yp) would be coded as 9 since the preferred grading system was not used and the Generic Grade categories do not apply to this grade table.

Note 3: Assign the highest grade from the resected primary tumor assessed after the completion of neoadjuvant therapy.

Note 4: If there are multiple tumors abstracted as one primary with different grades, code the highest grade.

Note 5: Use the grade from the post therapy clinical work up from the primary tumor in different scenarios based on behavior or surgical resection.

- ◆ Behavior
 - Tumor behavior for the post therapy clinical and the post therapy pathological diagnoses are the same AND the post therapy clinical grade is the highest grade.
 - Tumor behavior for post therapy clinical diagnosis is invasive, and the tumor behavior for the post therapy pathological diagnosis is in situ.
- ◆ Surgical Resection
 - Surgical resection is done of the primary tumor after neoadjuvant therapy is completed and there is no grade documented from the surgical resection.
 - Surgical resection is done of the primary tumor after neoadjuvant therapy is completed and there is no residual cancer.
 - Surgical resection of the primary tumor after neoadjuvant therapy is completed, but there is positive microscopic confirmation of distant metastases during the post therapy clinical time frame.

Note 6: Code 9 (unknown) when:

- Surgical resection is done after neoadjuvant therapy and grade from the primary site is not documented.
- Surgical resection is done after neoadjuvant therapy and there is no residual cancer.
- Grade checked “not applicable” on CAP Protocol (if available) and no other grade information is available.

Important: See the individual site-specific Grade Post Therapy Pathological tables in the grade manual for additional notes.

Derived Summary Grade 2018

This new data item will be applied to cases 2018+. This is not a conversion but deriving new data based on information already in the cancer registry system. Once a new case is entered, the Derived Summary Grade [Item#1975] will be derived from Grade Clinical and Grade Pathological.

Date of Diagnosis

Record the month, day, and year this cancer was originally diagnosed by a medical practitioner. This date should reflect the **first clinical** onset of disease and may not be histologically confirmed. This date should not be changed, even if the disease is histologically confirmed later.

Example: Patient has a diagnostic ultrasound on February 1, 2021, that is highly suspicious for malignancy. On February 5, 2021, a biopsy is performed, and results show invasive ductal carcinoma. CCYY = 2021, MM = 02, DD = 01

- ◆ Backdating - If a non-diagnostic workup was performed on a patient but at a later date malignancy is confirmed and the physician specifically states that in retrospect the patient had cancer earlier,

backdate the date of diagnosis to reflect the earlier date. This also includes pathology that may not have been diagnostic but upon further review of the specimen it is now thought to have been malignant. Refer to the list of “Ambiguous Terms” in Chapter 2 for terminology that constitutes a diagnosis of cancer.

- ◆ Date of Diagnosis does not allow blanks.
 - If the year of diagnosis cannot be identified, it must be approximated. In that instance, the month and date are unknown.
 - Blanks are not allowed.
- ◆ If the cancer was first diagnosed at autopsy, (class of case 38), the date of diagnosis is the date of death.
- ◆ The date of the first cancer-directed treatment may be used for the date of diagnosis, if confirmation of disease occurs after therapy has begun, or if no other information is available.
- ◆ If only the time of year, (spring, summer, fall, or winter) is documented, use April, July, October, and either December (if end of year) or January (if beginning of year) respectively.
- ◆ Use 1st for the beginning of the month, 15th for mid-month and the last day of the month for the end of the month.

Date of Diagnosis is always required. If year of diagnosis is not known, it should be approximated for **all** cases as follows (and noted in a text field as estimated):

- 1) If you know there was treatment before the patient arrived at the hospital, try to determine whether that was “this year” or “last year”, based on the current time of year and whether that treatment was likely days, weeks, or months ago.

Example: The patient was admitted for initial chemotherapy on January 2 after recovering from surgery. Enter the preceding year as the diagnosis date.
- 2) Code “a couple of years” to two years earlier
- 3) Code “a few years” to three years earlier
- 4) Code “several” to four years earlier
- 5) Use whatever information is available to calculate the year of diagnosis (i.e., “Patient was diagnosed 10 years ago...”)
- 6) If **no information** about the date of diagnosis is available:

Analytic Cases

- a. Use the date of admission as the date of diagnosis.
- b. In the absence of an admission date, code the date of first treatment as the date of diagnosis

Non-analytic Cases

When **no information** is available to approximate a year of diagnosis for **non-analytic** cases, **approximate it to the best of your ability**. Please note in a text field that no information was available.

Diagnostic Confirmation

This item records the best method of diagnostic confirmation of the cancer being reported at any time during the course of disease. It is an indicator of the precision of diagnosis and marks whether or not the coded histologic type was microscopically confirmed.

Instructions for Coding Solid Tumors (all tumors *except M9590-9993*)

- ◆ The codes are in **priority order**; code 1 has the highest priority. Always code the procedure with the lower numeric value when presence of cancer is confirmed with multiple diagnostic methods. This data item must be changed to the lower code (higher priority) if a more definitive method confirms the diagnosis *at any time during* the course of the disease.

Example: Patient is diagnosed on 2/10/2021, by CT scan with probable lung cancer with no further workup. Diagnostic confirmation is coded to radiology (7). Later in March of 2021, the patient undergoes a bronchoscopy in which biopsies confirm squamous cell carcinoma. The diagnostic confirmation code is changed to reflect the positive histology (1)

- ◆ Assign code 1 when the microscopic diagnosis is based on tissue specimens from biopsy, frozen section, surgery, autopsy, or D&C or from aspiration or biopsy of bone marrow specimens.
- ◆ Assign code 2 when the microscopic diagnosis is based on cytologic examination of *cells* such as sputum smears, bronchial brushings, bronchial washings, prostatic secretions, breast secretions, gastric fluid, spinal fluid, peritoneal fluid, pleural fluid, urinary sediment, cervical smears and vaginal smears, or from paraffin block specimens from concentrated spinal, pleural, or peritoneal fluid.
- ◆ Code 5 when the diagnosis of cancer is based on laboratory tests or marker studies which are clinically diagnostic for that specific cancer.
- ◆ Code 6 when the diagnosis is based only on the surgeon's operative report from a surgical exploration or endoscopy or from gross autopsy findings in the absence of tissue or cytological findings.
- ◆ Assign code 8 when the case was diagnosed by any clinical method not mentioned in a preceding code.

Codes for Solid Tumors

Code	Label	Definition
1	Positive histology	Histologic confirmation (tissue microscopically examined)
2	Positive cytology	Cytologic confirmation (no tissue microscopically examined; fluid cells microscopically examined)
4	Positive microscopic confirmation, method not specified	Microscopic confirmation is all that is known. It is unknown if the cells were from histology or cytology
5	Positive laboratory test/marker study	A clinical diagnosis of cancer is based on laboratory tests/marker studies which are clinically diagnostic for cancer. Examples include alpha-fetoprotein for liver cancer. Elevated PSA is not diagnostic of cancer. If the physician uses the PSA as a basis for diagnosing prostate cancer with no other workup, record as code 5
6	Direct visualization without microscopic confirmation	The tumor was visualized during a surgical or endoscopic procedure only with no tissue resected for microscopic examination
7	Radiography and other imaging techniques without microscopic confirmation	The malignancy was reported by the physician from an imaging technique report only
8	Clinical diagnosis only, other than 5, 6 or 7	The malignancy was reported by the physician in the medical record
9	Unknown whether or not microscopically confirmed	A statement of malignancy was reported in the medical record, but there is no statement of how the cancer was diagnosed (usually nonanalytic)

Instructions for Coding Hematopoietic or Lymphoid Tumors (9590-9992)

- ◆ There is no priority hierarchy for coding *Diagnostic Confirmation* for hematopoietic and lymphoid tumors. Most commonly, the specific histologic type is diagnosed by immuno-phenotyping or genetic testing. See the *Hematopoietic Database (DB)* for information on the definitive diagnostic confirmation for specific types of tumors.
- ◆ Use code 1 when **ONLY** the tissue, bone marrow, or blood was used to diagnose the specific histology. Do **not** use code 1 if the provisional diagnosis was based on tissue, bone marrow, or blood **and** the immunophenotyping or genetic testing on that same tissue, bone marrow or blood identified the specific disease (see code 3)
- ◆ For leukemia only, code 1 when the diagnosis is based only on the complete blood count (CBC), white blood count (WBC) or peripheral blood smear. Do not use code 1 if the diagnosis was based on immunophenotyping or genetic testing using tissue, bone marrow, or blood.
- ◆ Use code 2 when the microscopic diagnosis is based on cytologic examination of *cells* (rather than tissue) including but not limited to spinal fluid, peritoneal fluid, pleural fluid, urinary sediment, cervical smears and vaginal smears, or from paraffin block specimens from concentrated spinal, pleural, or peritoneal fluid. These methods are rarely used for hematopoietic or lymphoid tumors.
- ◆ Assign code 3 when there is a histology positive for cancer AND positive immunophenotyping and/or positive genetic testing results. Do not use code 3 for neoplasms diagnosed prior to January 1, 2010
- ◆ Assign code 5 when the diagnosis of cancer is based on laboratory tests or marker studies which are clinically diagnostic for that specific cancer, but no positive histologic confirmation.
- ◆ Assign code 6 when the diagnosis is based only on the surgeon's report from a surgical exploration or endoscopy or from gross autopsy findings without tissue or cytological findings.
- ◆ Assign code 8 when the case was diagnosed by any clinical method not mentioned in a preceding code. A number of hematopoietic and lymphoid neoplasms are diagnosed by tests of exclusion where the tests for the disease are equivocal, and the physician makes a clinical diagnosis based on the information from the equivocal tests and the patient's clinical presentation.

Codes for Hematopoietic and Lymphoid Neoplasms

Code	Label	Definition
1	Positive histology	Histologic confirmation (tissue microscopically examined)
2	Positive cytology	Cytologic confirmation (no tissue microscopically examined; fluid cells microscopically examined)
3	Positive histology PLUS Positive immunophenotyping <i>And/or</i> Positive genetic studies	Positive Histology PLUS: <ul style="list-style-type: none"> • Positive immunophenotyping AND/OR • Positive genetic studies • Includes peripheral blood smear followed by flow cytometry
4	Positive microscopic confirmation, method not specified	Microscopic confirmation is all that is known. It is unknown if the cells were from histology or cytology
5	Positive laboratory test/marker study	Note 1: Includes cases with positive immunophenotyping or genetic studies and NO histological confirmation Note 2: This does NOT include cases where peripheral smear is done (code1) & peripheral blood smear followed by flow cytometry (code 3)
6	Direct visualization without microscopic confirmation	The tumor was visualized during a surgical or endoscopic procedure only with no tissue resected for microscopic examination
7	Radiography and other imaging techniques without microscopic confirmation	The malignancy was reported by the physician from an imaging technique report only

8	Clinical diagnosis only, other than 5, 6 or 7	The malignancy was reported by the physician in the medical record
9	Unknown whether or not microscopically confirmed	A statement of malignancy was reported in the medical record, but there is not statement of how the cancer was diagnosed (usually nonanalytic)

Laterality

Laterality identifies the side of a paired organ or the side of the body on which the reportable tumor originated. This applies to the primary site only. Laterality supplements staging and extent of disease information and defines the number of primaries involved. This item is required for the sites listed below but can be used for sites not listed in the table.

Instructions for Coding

- ◆ Code laterality for all paired sites
- ◆ Do not code metastatic sites as bilateral involvement.
- ◆ Where the right and left sides of paired sites are contiguous (come into contact) and the lesion is at the point of contact of the right and left sides, use code 5, midline. Most paired sites cannot develop midline tumors (such as the breast) because the right and left organs do not touch. Skin of the trunk is an example of a site where midline coding is possible. Note that “midline of the right breast” is coded 1, (right; “midline” in this usage indicates the primary site is C50.8 (overlapping sites).
- ◆ Non-paired sites may be coded right or left, if appropriate. Otherwise, code non-paired sites 0.
- ◆ If both lungs have nodules or tumors and the lung of origin is not known, assign code 4.

Laterality Codes

Code	Definition
0	Organ is not a paired site
1	Origin of primary is right
2	Origin of primary is left
3	Only one side involved, right or left origin not specified
4	Bilateral involvement at time of diagnosis, lateral origin unknown for a single primary; or both ovaries involved simultaneously, single histology; bilateral retinoblastomas; bilateral Wilms tumors
5	Paired site: midline tumor
9	Paired site, but no information concerning laterality

Paired Organ Sites

ICD-O-3	Site
C07.9	Parotid gland
C08.0	Submandibular gland
C08.1	Sublingual gland
C09.8	Overlapping lesion of tonsil
C09.9	Tonsil, NOS
C30.1	Middle ear
C31.0	Maxillary sinus
C31.2	Frontal sinus
C34.1–C34.9	Lung
C38.4	Pleura
C40.0	Long bones of upper limb and scapula
C40.1	Short bones of upper limb
C40.2	Long bones of lower limb
C40.3	Short bones of lower limb
C44.1	Skin of eyelid
C44.2	Skin of external ear
C44.3	Skin of other and unspecified parts of face
C44.4	Skin of Scalp and Neck
C44.5	Skin of trunk
C44.6	Skin of upper limb and shoulder
C44.7	Skin of lower limb and hip
C47.1	Peripheral nerves and autonomic nervous system of upper limb and shoulder
C47.2	Peripheral nerves and autonomic nervous system of lower limb and hip
C49.1	Connective, subcutaneous, and other soft tissues of upper limb and shoulder
C49.2	Connective, subcutaneous, and other soft tissues of lower limb and hip
C50.0–C50.9	Breast
C56.9	Ovary
C57.0	Fallopian tube
C62.0–C62.9	Testis
C63.0	Epididymis
C63.1	Spermatic cord
C64.9	Kidney
C65.9	Renal pelvis
C66.9	Ureter
C69.0–C69.9	Eye and lacrimal gland
C70.0	Cerebral meninges
C71.0	Cerebrum
C71.1	Frontal lobe
C71.2	Temporal lobe
C71.3	Parietal lobe
C71.4	Occipital lobe
C72.2	Olfactory nerve
C72.3	Optic nerve
C72.4	Acoustic nerve
C72.5	Cranial nerve, NOS
C74.0–C74.9	Adrenal Gland
C75.4	Carotid body

Chapter 8

STAGING SCHEMES

MCR's requirements for staging cases have changed through the years according to NPCR requirements. In **2026** we will require the fields as stated on our website in the document MCR Required Data Elements **2026** <https://cancerregistry.missouri.edu/>

Past and current staging requirements for all facility types are as follows:

Staging System	Diagnosis years
SEER Summary Stage 2000	2001-2017
SEER Summary Stage 2018	2018-2019
SEER Summary Stage 2021	2021-forward
Collaborative Stage	2004-2015
CS Site Specific Factors	2004-2017
Site Specific Data Items	2019 and forward (see https://apps.naaccr.org/ssdi/list/ For the SSDI manual and lists or pg. 163 STORE 2026
AJCC 7 th Edition Cancer Staging Manual	2015 (CoC accredited facilities only) 2016-2017 all facilities
AJCC Cancer Staging System	2019 forward (CoC accredited facilities only)

AJCC released three Version 9 protocols effective with January 1, 2023, and forward cases. These include the Anus, Appendix and Brain and Spinal Cord.

Medulloblastoma (09724) is a new schema added for 2023 cases. Additional histologies for behavior /3 are added for Brain, CNS other and Intracranial Gland.

Appendices to this manual discuss the use of previous systems.

SEER Summary Stage 2018

Summary Stage is the most basic way of categorizing how far a cancer has spread from its point of origin and provides central registries with the most consistent stage data for cancer surveillance over time. The **2018** version of Summary Stage applies to every site and/or histology combination, including lymphoma and leukemias. SEER Summary Stage **2018** is required for cases diagnosed **2018** and forward. The manual can be found at: <https://seer.cancer.gov/tools/ssm/>

The General Coding Instructions provide important introductory material and are followed by site-specific chapters.

Steps/Resources to Use for Coding Summary Stage 2018

1. Review site-specific Coding Notes in SEER Summary Stage **2018** Manual or abstracting software
2. Review General Instructions for using the Summary Stage **2018** Manual Check SEER Inquiry Systems answers
3. Submit questions to Ask a SEER Registrar

A new Summary Stage 2018 chapter for Medulloblastoma is added for January 1, 2023, and forward cases.

Site Specific Data Items (SSDIs)

Site Specific Data Items (SSDI) are similar to the Site-Specific Factors (SSF) that were collected with Collaborative Stage. These data items are specific to certain site/histology combinations. The manual and schema look up lists are found at <https://apps.naaccr.org/ssdi/list/>

Please consult the manual for suggestions on how to use it. Careful review of the introduction will provide helpful information including timing rules and lab values. Information about the SSDI's has been organized using primary site groupings and presented in the order used in the AJCC Cancer Staging System.

Resources/Steps to Code SSDI

1. Review site -specific Coding Notes in
 - Abstracting Software
 - NAACCR Site Specific Data Items (SSDI) Manual
2. Review SSDI Manual
 - General Instructions
 - Review instructions for similar SSDI's (if applicable)
3. Review/submit question to CAnswer Forum

An important new concept introduced in 2018 is the use of an AJCC ID and Schema ID to define the applicable SSDIs and grade tables for a particular tumor, based on primary site, histology, and in some cases, additional information in the form of 1-2 schema discriminators. The appropriate AJCC and Schema ID will be calculated by registry software and will not have to be assigned by the registrar. Each SSDI has a data item name and can be collected for as many sites/chapters/schemas as needed.

MCR requires the following SSDIs for 2021+ cases:

SSDI	Schemas
Brain Molecular Markers	Brain, CNS other
Estrogen Receptor Summary	Breast
Progesterone Receptor Summary	Breast
HER2 Overall Summary	Breast
Microsatellite Instability (MSI)	Colon & Rectum, Corpus Carcinoma/carcinosarcoma added for 2026+
Fibrosis Score	Liver
Breslow Tumor Thickness	Melanoma
LDH Lab Value	Melanoma, Plasma Cell Myeloma & Plasma Cell Disorders
PSA (Prostatic Specific Antigen) Lab Value	Prostate
Gleason Patterns Clinical	Prostate
Gleason Patterns Pathological	Prostate
Gleason Tertiary Pattern	Prostate

Gleason Score Clinical	Prostate
Gleason Score Pathological	Prostate
Esophagus and EGJ Tumor Epicenter	Esophagus
LN Status Pelvic	Cervix, Vulva, Vagina
LN Status Para-aortic	Cervix, Vulva, Vagina
LN Status Femoral-Inguinal	Cervix, Vulva, Vagina
P16	Cervix & Anus, Vulva-2024+ cases
Histologic Subtype	Appendix
Clinical Margin Width	Melanoma Skin
SEER Site Specific Factor 1 – HPV status 2 digits	Lip, Ant Tongue, Floor of mouth, Hard Palate, Buccal mucosa, mouth other, hypopharynx, Oropharynx
PD-L1	Lung – 2025+
Post Transplant Lymphoproliferative Disorder (PTLD)	Lymphoma, Lymphoma-CLL/SLL, Plasma Cell Disorders, Plasma Cell Myeloma, Primary Cutaneous Lymphoma – 2025+
Spread Through Air Spaces (STAS)	Lung – 2026+
Residual Cancer Burden (RCB)	Breast – 2026+
Residual Cancer Burden Class	Breast – 2026+
Schema Discriminator 1	Nasopharynx and oropharynx schemas – limit use with C11.1 2018-2024 – 2026+
Schema Discriminator 2	includes Oropharynx HPV-Associated – 2026+

REMOVED SSDIs for 2026

Percent Necrosis Post Neoadjuvant TX	Bone schemas
Oncotype DX Risk level-Invasive and	Breast
Oncotype DX Risk level-DCIS	

SSDIs Adjusted to Share Same Validation Table and Notes 2026

Extranodal Extension Head/Neck Clinical
Extranodal Extension Head/Neck Pathological
LN Size
LN Head and Neck Levels I-III
LN Head and Neck Levels IV-V
LN Head and Neck Levels VI-VII
LN Head and Neck Other

NEW Pediatric SSDIs for 2025

Chromosome 16q status	
Chromosome 1q status	
EWSR1-FLI1 Fusion	Ewing Sarcoma
FOXO1 Gene Rearrangements	Rhabdomyosarcoma
Intl Neuroblastoma Path Prog Class (INPC)	Brain
Intl Neuroblastoma Risk Group Stage Sys (INRGSS)	Brain
IRSS Stage for Eye-2	Eye
n-MYC Amplification	Brain - Neuroblastoma
Pretest Clinical Staging	Liver
White Blood Cell Count	

GYN Schema

Note 1: There must be a statement about FIGO stage from the managing physician to code this data item. **DO NOT** code FIGO based on path report or T, N, M.

Melanoma

Note 2: Record the lab value of the highest serum LDH test results documented before or after surgical resection of the primary tumor with or without regional lymph node dissection. LDH must be taken prior to systemic treatment or surgery to metastatic site. The lab value may be recorded in a lab report, history and physical or clinical statement in the path report.

Lymphovascular Invasion

This data item indicates the presence or absence of tumor cells in lymphatic channels (not lymph nodes) or blood vessels within the primary tumor as noted microscopically by the pathologist. Lymph-vascular Invasion (LVI) is an indicator of prognosis.

Instructions for Coding

- ◆ See the most recent version of the STORE Manual for lengthy and important coding instructions and Schema ID lists page 97.
- ◆ Code from the pathology report(s). Code the absence or presence of lymphovascular invasion as described in the medical record.
 - The primary source of lymphovascular invasion is pathology checklists or synoptic reports.
 - DO NOT code perineural invasion in this field.
 - Information to code this fields can be taken from the biopsy or resection specimen.
 - If LVI is identified in any specimen, code it as present/identified.
 - For benign or borderline cases, code the LVI documented (negative or positive). If not documented, code unknown.
 - For cases treated with neoadjuvant therapy, refer to the table below.
 - If LVI was present prior to neoadjuvant therapy (codes 1-4) but not after therapy (codes 0 or 9), code the LVI to present (codes 1-4). Benign or borderline, CNS and GIST – use code 8.
 - If LVI was not present prior the neoadjuvant therapy but present after neoadjuvant therapy, code to present (codes 1-4).

Code	Definition
0	Lymphovascular Invasion stated as Not Present
1	Lymphovascular Invasion Present/Identified (NOT used for thyroid and adrenal)
2	Lymphatic and small vessel invasion only (L) OR Lymphatic invasion only (thyroid and adrenal only)
3	Venous (large vessel) invasion only (V) OR Angioinvasion (thyroid and adrenal only)
4	BOTH lymphatic and small vessel AND venous (large vessel) invasion OR BOTH lymphatic AND angioinvasion (thyroid and adrenal only)
8	Not Applicable
9	Unknown/Indeterminate/not mentioned in path report

LVI on pathology report PRIOR to neoadjuvant therapy	LVI on pathology report AFTER neoadjuvant therapy	Code LVI to:
0 - Not present/Not identified	0 - Not present/Not identified	<i>0 - Not present/Not identified</i>
0 - Not present/Not identified	1 - Present/Identified	<i>1 - Present/Identified</i>
0 - Not present/Not identified	9 - Unknown/Indeterminate	<i>9 - Unknown/Indeterminate</i>
1 - Present/Identified	0 - Not present/Not identified	<i>1 - Present/Identified</i>
1 - Present/Identified	1 - Present/Identified	<i>1 - Present/Identified</i>
1 - Present/Identified	9 - Unknown/Indeterminate	<i>1 - Present/Identified</i>
9 - Unknown/Indeterminate	0 - Not present/Not identified	<i>9 - Unknown/Indeterminate</i>
9 - Unknown/Indeterminate	1 - Present/Identified	<i>1 - Present/Identified</i>
9 - Unknown/Indeterminate	9 - Unknown/Indeterminate	<i>9 - Unknown/Indeterminate</i>

Tumor Size Summary

Description

This data item records the most accurate measurement of a solid primary tumor, usually measured on the surgical resection specimen.

Rationale

Tumor size is one indication of the extent of disease. As such, both clinicians and researchers use it. Tumor size that is independent of stage is also useful for quality assurance efforts.

Instructions for Coding

- ◆ See the most recent version of the STORE manual for important coding instructions.
- ◆ Tumor size is the diameter of the tumor, not the depth or thickness.
- ◆ Recording less than/greater than tumor size by reporting 1mm less or more. If size of tumor is <10mm, report 009. If tumor size is < 2 cm, report 019 mm. If stated less than 1 mm, use code 001. If tumor size is reported as >10 mm, code 11 mm. If the tumor size is between two sizes, record the midpoint. Add the two sizes together and divide by two. For example, between 2 and 3 cm is coded to 025 cm.
- ◆ Round the tumor size only if it is described in fractions of millimeters. For example, if tumor is described as 6.5 mm record tumor size as 007 mm.
- ◆ Priority of imaging/radiographic techniques: Size from imaging/radiographic techniques can be used to code the tumor size when there is not more specific size information from the pathology or operative report.
- ◆ Tumor size discrepancies among imaging/ radiographic reports: Record the largest size in the record unless the physician specifies which report is most accurate.
- ◆ Always code the size of the primary tumor, not the size of polyp, ulcer, cyst, or distant metastasis.
- ◆ Record the size of the invasive component even if it is smaller than the in-situ component.
- ◆ Disregard microscopic residual or positive surgical margins when coding tumor size.
- ◆ Do not add the size of pieces or chips together to create a whole.
- ◆ Multifocal/multicentric tumors are reported as a single primary. Code the size of the largest invasive tumor or the largest size of the in-situ tumor if the whole tumor is in situ.

- ◆ Tumor size is coded to 999 when the size is unknown or not applicable.
- ◆ Tumor size is coded to 000 for schema 00060 Cervical Lymph Nodes.
- ◆ Document information to support the tumor size in text.

Code	Definition
00	No mass/tumor found
01	1mm or described as less than 1 mm
002-988	Exact size in millimeters (2mm-988mm)
989	989 millimeters or larger
990	Microscopic focus or foci only and no size of focus is given
998	SITE-SPECIFIC CODES Alternate descriptions of tumor size for specific sites: Familial/multiple polyposis: Rectosigmoid and rectum (C19.9, C20.9) Colon (C18.0, C18.2-C18.9) If no size is documented: Circumferential: Esophagus (C15.0-C15.5, C15.8-C15.9) Diffuse; widespread: 3/4s or more; linitis plastica: Stomach and Esophagus GE Junction (C16.0-C16.6, C16.8-C16.9) Diffuse, entire lung or NOS Lung and main stem bronchus (C34.0-C34.3, C34.8-C34.9) Diffuse: Breast (C50.0-C50.6, C50.8-C50.9)
999	Unknown; size not stated; Not documented in patient record; Size of tumor cannot be assessed; Not applicable

Regional Nodes Positive

Record the exact number of regional lymph nodes (as defined by AJCC Cancer Staging System) examined by the pathologist and found to contain metastases. In 2016, use of Collaborative Staging was discontinued, however this data item continues to be required.

Regional Lymph Node Positive Codes

Refer to the STORE Manual for additional coding instructions.

Code	Description
00	All nodes examined are negative
01 – 89	1 to 89 nodes are positive (Code exact number of nodes positive)
90	90 or more nodes are positive
95	Positive aspiration of lymph node(s) was performed.
97	Positive nodes are documented, but the number is unspecified.
98	No nodes were examined.
99	It is unknown whether nodes are positive; not applicable; not stated in patient record

Regional Nodes Examined

Record the total number of regional lymph nodes (as defined by AJCC Cancer Staging Manual) that were removed and examined by the pathologist. Refer to the STORE Manual for complete directions. In 2016, use of Collaborative Staging was discontinued, however this data item continues to be required.

For the following primary sites and histologies, the Regional Nodes Examined field is always coded as 99: C420, C421, C423-C424, C589, C700-C709, C710-C729, C751-C753, C761-C768, C770-C779, or C809.

Regional Lymph Nodes Examined Codes

Code	Description
00	No nodes were examined
01 – 89	1 to 89 nodes were examined (Code the exact number of regional lymph nodes examined)
90	90 or more nodes were examined
95	No regional nodes were removed, but aspiration or core biopsy of regional nodes was performed.
96	Regional lymph node removal was documented as a sampling, and the number of nodes is unknown/not stated
97	Regional lymph node removal was documented as a dissection, and the number of nodes is unknown/not stated
98	Regional lymph nodes were surgically removed, but the number of lymph nodes is unknown/not stated and not documented as a sampling or dissection; nodes were examined, but the number is unknown
99	It is unknown whether nodes were examined; not applicable or negative; not stated in record

Sentinel Lymph Nodes Positive

Record the exact number of sentinel lymph nodes biopsied and found to contain metastasis. This data item is required for breast and cutaneous melanoma cases only.

Instructions for Coding

- ♦ If during sentinel node biopsy procedure, non-sentinel nodes are sampled and positive, document the total number of positive nodes identified during the sentinel node procedure.
- ♦ If both a sentinel node biopsy procedure and then a subsequent separate regional node dissection are performed, record the total number of positive sentinel nodes identified. This includes sentinel nodes positive.
- ♦ If a positive aspiration of sentinel lymph nodes AND a positive sentinel node biopsy were performed on the same patient, record the results of the positive sentinel node biopsy procedure.
- ♦ Mi (microscopic or micro mets) in sentinel lymph nodes are considered positive.
- ♦ **FOR BREAST ONLY:** If sentinel lymph node biopsy is performed during the same procedure as the regional node dissection, and the number of positive sentinel lymph nodes removed cannot be determined, use code 97 and record the total number of positive regional lymph nodes biopsied/dissected.
- ♦ If sentinel lymph node biopsy is performed during the same procedure as the regional node dissection and the number of positive sentinel lymph nodes is recorded in the pathology report, fill in this data item and record the total number of positive regional lymph nodes (both sentinel and regional) in Regional Lymph Nodes Positive.
- ♦ If only positive Isolated Tumor Cells (ITC) are identified, the sentinel nodes are considered NEGATIVE.
- ♦ **FOR MELANOMA ONLY:** If a sentinel lymph node biopsy is performed during the same procedure as the regional node dissection, record the total number of positive sentinel nodes identified in this data item and record the

total number of positive regional lymph nodes identified in Regional Lymph Nodes Positive.

- ◆ When the sentinel lymph node biopsy is performed during the same procedure as the regional dissection the CAP protocol for melanoma captures both the number of positive sentinel nodes in addition to the number of positive regional nodes.
- ◆ The number of sentinel nodes positive should be less than or equal to the total number of Regional Nodes Positive.
- ◆ If only positive Isolated Tumor Cells (ITC) are identified, the sentinel nodes are considered POSITIVE.

Surgical Diagnostic and Staging Procedure (RX Summ-DX/Stg Proc)

Identifies the positive surgical procedure(s) performed in an effort to diagnose and/or stage disease. This data item is used to track the use of surgical procedure resources that are not considered treatment.

Instructions for Coding:

- ◆ Record the type of procedure performed as part of the initial diagnosis and workup, whether this is done at your institution or another facility.
- ◆ Only record positive procedures. For benign and borderline reportable tumors, report biopsies positive for those conditions. For malignant tumors, report procedures if they were positive for malignancy.
- ◆ If both an incisional biopsy of the primary site and an incisional biopsy of a metastatic site are done, use code 02 (Incisional biopsy of primary site).
- ◆ If a lymph node is biopsied or removed to diagnose or stage *lymphoma*, and that node is NOT the only node involved with lymphoma, use code 02. If there is only a single lymph node involved with lymphoma, use the data item *Surgical Procedure of Primary Site* to code these procedures.
- ◆ Do not code surgical procedures which aspirate, biopsy, or remove *regional lymph nodes* in an effort to diagnose and/or stage disease in this data item. Use the data item *Scope of Regional Lymph Node Surgery* to code these procedures. Do not record the date of surgical procedures which aspirate, biopsy, or remove regional lymph nodes in the data item *Date of Surgical Diagnostic and Staging Procedure*. See instructions for *Scope of Regional Lymph Node Surgery*.
- ◆ Code brushings, washings and cell aspiration, as positive cytologic diagnostic confirmation in the data item *Diagnostic Confirmation*. These are not considered surgical procedures and should not be coded in this item.
- ◆ Aspirations can be a biopsy (tissue) or cytology (cells).
 - Code tissue biopsy in *Surgical/Diagnostic Staging procedure*.
 - Code cytology cell aspiration in *Diagnostic Confirmation*.
- ◆ Do not code excisional biopsies with clear or microscopic margins in this data item. Use the data item *Surgical Procedure of Primary Site* to code these procedures.
- ◆ If a needle biopsy precedes an excisional biopsy or more extensive surgery and upon the excisional biopsy or more extensive surgery no tumor remains, do not consider the needle biopsy to be an excisional biopsy. The needle biopsy should be recorded as such in the *Surgical Diagnostic and Staging Procedure* data item. The excisional biopsy or more extensive surgery should be recorded in the *Surgical Procedure of the Primary Site* data item.
- ◆ If there are macroscopic positive margins (visible with the naked eye) then code the procedure as a *Surgical/Diagnostic Staging procedure*.
- ◆ If there are negative or microscopically positive margins (visible with microscope only) then capture procedure as Rx-Summ Surg 2023.
- ◆ Do not code palliative surgical procedures in this data item. Use the data item *Palliative Procedure* to code these procedures.

Code Definition

- 00 No surgical diagnostic or staging procedure was performed
- 01 A biopsy (incisional, needle, or aspiration) was done to a site other than the primary site. No exploratory procedure was done
- 02 A biopsy (incisional, needle, or aspiration) was done to the primary site; or biopsy or removal of a lymphnode to diagnose or stage lymphoma
- 03 A surgical exploration only. The patient was not biopsied or treated
- 04 A surgical procedure with a bypass was performed, but no biopsy was done
- 05 An exploratory procedure was performed, and a biopsy of either the primary site or another site was done
- 06 A bypass procedure was performed, and a biopsy of either the primary site or another site was done
- 07 A procedure was done, but the type of procedure is unknown
- 09 No information of whether a diagnostic or staging procedure was done

Date of Surgical, Diagnostic and Staging Procedure (Rx Date—Dx/Stg/Proc)

This data item records the date on which the surgical diagnostic and/or staging procedure was performed and is used to track the use of surgical procedure resources that are not considered treatment.

Coding Instructions:

- ◆ Record the date on which the surgical diagnostic and/or staging procedure described in *Surgical Diagnostic and Staging Procedure* was performed at this or any facility,
- ◆ Record the date as completely as possible. Leave any unknown portions of the date blank,
- ◆ **Example:** The patient came to your facility for chemotherapy in March of 2024 after having had exploratory lap with biopsy in February of 2024, exact day unknown. CCYY = 2024, MM = 02, DD = blank
- ◆ If information for this item is entirely unknown or not applicable, leave the field blank

TUMOR-DIRECTED TREATMENT

Record all cancer-directed therapy information available whether administered at the reporting hospital or at another facility. If the patient receives part of the first course of therapy at the reporting hospital and is transferred to another facility to continue treatment, also record the treatment given at the other hospital, if it is known. Documenting all treatments in the given Rx Summ fields provides a complete "picture" of the patient's cancer experience and is meaningful in calculating survival statistics and assessing treatment success. Subsequent courses of treatment should only be mentioned in text fields. For non-analytic cases (class 32), treatment given at your facility will only be recorded in text fields.

Date of 1st Course of Treatment (Date of 1st Crs Rx-CoC)

Record the earliest date on which treatment for the reported cancer began, including active surveillance only, or the date the decision was made not to treat (watchful waiting or refusal by patient).

Instructions for Coding

- ◆ Record the date as completely as possible. Leave any unknown portions of the date blank.

Example: The patient came to your facility for chemotherapy in March of 2024 after having had surgery in February of 2024, exact unknown day. CCYY = 2024, MM = 02, DD = blank

Example: When the diagnosis date is 2/1/24, it is known that treatment was given, and date of death or last contact is in 2024, then the date of first course treatment can at least be entered as 2024.

- ◆ Leave this item blank if the cancer was diagnosed at autopsy and not suspected prior to that.
- ◆ If the patient expired before planned treatment could begin, enter the date of death.
- ◆ If the first course of treatment plan changes due to improvement in tumor burden, added treatment would still be considered first course.

Example: Palliative chemo/radiation is recommended and administered per the first course treatment plan. Initially resection of the primary tumor was contraindicated due to tumor size and location. Follow up imaging shows an improvement in tumor burden and treatment plan changed since tumor is now respectable to include surgery. Even though the primary tumor resection was not noted in the FCOT plan, the resection would be captured as first course treatment since there was not progression of tumor.

Rx Summ – Treatment Status

This data item summarizes whether the patient received any treatment, including watchful waiting. This item was added to document active surveillance and eliminate searching each treatment modality in order to determine whether any treatment was given. It is used in conjunction with *Date of First Course of Treatment* to document whether treatment was or was not given, whether it is unknown if treatment was given, or whether treatment was given on an unknown date.

Instructions for Coding

- ◆ This item may be left blank for cases diagnosed prior to 2010.
- ◆ Treatment given after a period of active surveillance is considered subsequent treatment and it is not coded in this item.
- ◆ Use code 0 when treatment is refused or the physician decides not to treat for any reason, including comorbidities.
- ◆ Use code 1 when the patient receives treatment collected from Surgery Primary Site, Surgical Procedure of Other Site, Radiation Treatment Modality, Chemotherapy, Hormone Therapy, Immunotherapy, Hematologic Transplant and Endocrine Procedures or Other Therapy.

Code	Definition
0	No treatment given
1	Treatment given
2	Active surveillance (watchful waiting)
3	Unknown if treatment was given

Examples:

- 0 An elderly patient with pancreatic cancer requested no treatment
- 0 Patient is expected to receive radiation, but it has not occurred yet (*Reason for No Radiation* [NAACCR Item #1430] = 8)
- 2 Treatment plan for a lymphoma patient is active surveillance

Surgical Diagnostic and Staging Procedure

This data item is used to track the use of surgical procedures that are not considered treatment.

Instructions for Coding

- ◆ Record the procedure performed as part of the initial diagnosis and workup, even if done at another facility.
- ◆ Only record positive procedures.
- ◆ If both an incisional biopsy of the primary site and an incisional biopsy of a metastatic site are done, code only the primary site procedure (02).
- ◆ If a lymph node is biopsied or removed to diagnose or stage lymphoma, and that node is NOT the only node involved with lymphoma, use code 02. If there is a single node involved with lymphoma use RX Summ--Surg 2023 to code the procedure.
- ◆ Do not code surgical procedures which aspirate, biopsy or remove regional lymph nodes in an effort to diagnose or stage in this data items except for lymphoma as described above.
- ◆ Code brushings, washings, cell aspiration and hematologic findings (peripheral blood smears) as positive cytologic diagnostic confirmation in the Diagnostic confirmation field.
- ◆ If there are negative or microscopically margins (not visible to the naked eye) capture the procedure as RX Summ--Surg 2023.

- ◆ If there are macroscopic positive margins, capture the procedure as a **Surgical Diagnostic and Staging Procedure**.
- ◆ Needle biopsies should be recorded in this data item.

RX Summ—Surg Prim Site 2023)

(RX Summ—Surg Prim Site 03-2022) should be left blank for cases diagnosed January 1, 2023, and forward.

This data item records the surgical procedure(s) performed to the primary site and can be used to compare the efficacy of treatment options.

Instructions for Coding

- ◆ Site-specific surgical codes for this data item are found in STORE Appendix A.
 - All surgery codes begin with the letter A except for skin, colon, lung, pancreas, thyroid and breast.
 - Skin, colon, lung, pancreas, thyroid and breast surgery codes begin with the letter B to indicate a significant change in coding.
- ◆ For diagnosis year 2023 and forward, this data item must be completed.
- ◆ For diagnosis years 2003 – 2022, this data item should be left blank.
 - Complete data item Surgical Procedure of Primary Site at this Facility [NAACCR #670] utilizing the STORE manual that is applicable for the date of diagnosis.
- ◆ If registry software allows only one procedure to be collected, document the most invasive surgical procedure for the primary site.
- ◆ If registry software allows multiple procedures to be recorded, this item refers to the most invasive surgical procedure for the primary site.
- ◆ For codes A000 or B000 through A790 or B790, the response positions are hierarchical. Last-listed responses take precedence over responses written above.
- ◆ Use codes A800 or B00 and A900 or B900 only if more precise information about the surgery is not available.
- ◆ Code A980 for any case coded to primary site C420, C421, C423, C424, C760-C768, C809.
- ◆ Code A990 or B990 if diagnosis was by death certificate only.
- ◆ Excisional biopsies (those that remove the entire tumor and/or leave only microscopic margins) are to be coded in this item.
- ◆ If a needle biopsy precedes an excisional biopsy or more extensive surgery, and upon the excisional biopsy or more extensive surgery the surgical margins are clear, DO NOT consider the needle biopsy to be an excisional biopsy. The needle biopsy should be recorded as such in the Surgical Diagnostic and Staging Procedure [1350] and the excisional biopsy or more extensive surgery in the RX Summ-Surg 2023 [1291].
- ◆ Surgery to remove regional tissue or organs is coded in this item only if the tissue/organs are removed in continuity with the primary site, except where noted in Appendix A of STORE.
- ◆ If a previous surgical procedure to remove a portion of the primary site is followed by surgery to remove the remainder of the primary site, then code the total or final results. Do not rely on registry software to perform this task for you.
- ◆ If the procedure coded in this item was provided to prolong a patient's life by controlling symptoms, to alleviate pain, or to make the patient more comfortable, then also record this surgery in the item Palliative Care at This Facility [3280].
- ◆ For cases diagnosed prior to January 1, 2023, this data item should be blank.
- ◆ Clinical Margin Width [3961] collected in the Site-Specific Data Item following SEER coding rules and instructions.

- ◆ For melanoma skin surgical codes ONLY:
 - The priority order for sources used to assign surgery codes:
 - Operative report, statement from a physician, description of the surgical procedure on a pathology report, results of the pathology report. Code based on the description of the procedure.
 - Do not code based on margin status documented in the pathology report

Code	Label	Definition
A000 or B000	None	No surgical procedure of primary site. Diagnosed at autopsy.
A100– A190 or B100-B190	Site-specific codes; tumor destruction	Tumor destruction, no pathologic specimen produced. Refer to Appendix A for the correct site-specific code for the procedure.
A200– A800 or B200- B800	Site-specific codes; resection	Refer to Appendix A for the correct site-specific code for the procedure.
A900 or B900	Surgery, NOS	A surgical procedure to primary site was done, but no information on the type of surgical procedure is provided.
A980	Site-specific codes; special	<p>Special code. Refer to Appendix A for the correct site-specific code for the procedure.</p> <p>Code A980 for the following sites/schema unless the case is death certificate only:</p> <p>Any case coded to primary site C420, C421, C423, C424, C760-C768, C809</p> <p>When Surgery of Primary Site is coded A980</p> <ol style="list-style-type: none"> 1. Code Surgical Margins of the Primary Site (1320) to 9 2. Code Reason for No Surgery of Primary Site (1340) to 1
A990 or B990	Unknown	Patient records do not state whether a surgical procedure of the primary site was performed, and no information is available. Death certificate only.

New Surgery Code Format and Melanoma Surgery Codes 2023+ Diagnosis

Instructions for Coding

- ◆ For diagnosis years 2003-2022, leave this data item blank.
- ◆ Melanoma surgery codes begin with B to indicate a major change. Assume procedure is “Excisional” and code using surgery codes unless procedure is a needle or core biopsy.
- ◆ Margins are not a factor in melanoma surgery code assignment.
- ◆ Do not code melanoma margin status based on the pathology report

Code	Label
◆ B000	None, no surgery of primary site; autopsy only
◆ B100	Local tumor destruction, NOS
◆ B110	Photodynamic therapy (PDT)
◆ B120	Electrocautery; fulguration (includes use of hot forceps)
◆ B130	Cryosurgery
◆ B140	Laser
◆ B200	Local tumor excision, NOS; Excisional biopsy, NOS
◆ B220	Shave Biopsy, NOS
◆ B230	Punch Biopsy, NOS
◆ B240	Elliptical Biopsy (aka Fusiform)
◆ B300	Mohs Surgery, NOS
◆ B310	Mohs surgery performed on same day (all Mohs procedures performed)
◆ B320	Mohs surgery performed on different days (slow or each Mohs performed on different day)
◆ B500	Biopsy (NOS) of primary tumor followed by wide excision of lesion; Wide Exc.
◆ B510	Incisional Biopsy followed by wide excision
◆ B520	Shave Biopsy followed by wide excision
◆ B530	Punch Biopsy followed by wide excision
◆ B540	Elliptical Biopsy (aka Fusiform) followed by wide excision
◆ Note:	An incisional biopsy would be a needle core biopsy of the primary tumor and coded as a Diagnostic Staging Procedure.

RX Summ-Surg Breast

These data items are required for breast cases diagnosed in **2022-2024**. [Item#10104 and 10105]. These data items support Synoptic Operative Reports and can be used to compare the efficacy of treatment options.

Instructions for Coding

- ◆ Review the operative report/procedure note to code the appropriate surgical code.
- ◆ Code the surgical resection code for Breast primaries performed at any facility with a diagnosis date of 1/1/2022-12/31/2023.

- ◆ Code the most definitive surgical procedure for the primary site at any facility.
- ◆ Reconstruction performed immediately after surgical resection at any facility (codes B200-B900) should be coded in the Rx Summ-Recon Breast.
- ◆ Code B200 to B760 in the order of hierarchy, the response positions are hierarchical. Last-listed responses take precedence over responses written previously.
- ◆ Use codes B800 and B900 only if more precise information about the surgery performed is not available.
- ◆ Excisional biopsies are to be coded using code B210 if the ENTIRE tumor is removed and/or only microscopic margins remain.
- ◆ Surgery to remove regional tissue or organs is coded in this item if only removed in continuity with the primary site.
- ◆ If contralateral breast reveals a second primary, each breast is abstracted separately.
- ◆ Leave this data item blank for breast cases diagnosed in any year prior to 2022 and in coding all other sites.

Codes and Code Definitions

<u>Code</u>	<u>Label</u>
B000	None: no surgery of primary site; autopsy only
B200	Partial Mastectomy; less than total mastectomy, Lumpectomy, segmental mastectomy, quadrantectomy, tylectomy, with or without nipple resection
B210	Excisional breast biopsy – Diagnostic excision, no pre-operative biopsy proven diagnosis of cancer

Note: An excisional biopsy can occur then the nodule was previously not expected to be cancer.

Example: Use code B210 when a surgeon removes the mass, and it comes back cancer and there is no biopsy done prior to mass being removed.

B215	Excisional breast biopsy, for atypia
------	--------------------------------------

Note: An excisional breast biopsy removed the entire tumor and/or only microscopic positive margins remain. This surgery code was added to collect code when atypic tissue is excised and found to the reportable. Approximately 10-15% of excised atypia are found to be cancer and reportable.

B240	Re-excision of margins from primary tumor site for gross or microscopic residual disease when less than total mastectomy is performed.
B290	Central lumpectomy, only performed for a prior diagnosis of cancer, which includes removal of the nipple areolar complex

Note: A central lumpectomy removed the nipple areolar complex, a lumpectomy does not. Central lumpectomy, central portion lumpectomy, central portion excision and central partial mastectomy are all interchangeable terms.

Example: Use code B290 when the nipple areolar complex needs to be removed in cases of Paget's disease or cancer directly involving the nipple areolar complex.

B300	Skin-sparing mastectomy
B310	WITHOUT removal of uninvolved contralateral breast
B320	WITH removal of uninvolved contralateral breast

Note: A skin sparing mastectomy removed all breast tissue and the nipple areolar complex and preserves native breast skin. It is performed with and without sentinel node biopsy or ALND.

B400	Nipple-sparing mastectomy
------	---------------------------

B410	WITHOUT removal of uninvolvled contralateral breast
B420	WITH removal of uninvolvled contralateral breast

Note: A nipple sparing mastectomy removed all breast tissue but preserves the nipple areolar complex and breast skin and is performed with immediate reconstruction. It can be performed with or without sentinel node biopsy or ALND.

B500	Areolar-sparing mastectomy
B510	WITHOUT removal of uninvolvled contralateral breast
B520	WITH removal of uninvolvled contralateral breast

Note: An areolar sparing mastectomy removes all breast tissue and the nipple but preserves the areola and breast skin. It is performed with immediate reconstruction and can be performed with or without Sentinel node biopsy or ALND.

B600	Total Simple Mastectomy
B610	WITHOUT removal of uninvolvled contralateral breast
B620	WITH removal of uninvolvled contralateral breast

Note: A total (simple) mastectomy removes all breast tissue, the nipple areolar complex and breast skin. It is not performed with reconstruction. It can be performed with or without sentinel node biopsy or ALND.

B700	Radical mastectomy, NOS
B710	WITHOUT removal of uninvolvled contralateral breast
B720	WITH removal of uninvolvled contralateral breast
B760	Bilateral mastectomy for a single tumor involving both breasts as for bilateral inflammatory carcinoma

Note: A radical mastectomy removed all breast issue, nipple areolar complex breast skin and pectoralis muscle. It is not performed with reconstruction. It is performed with level I-III ALND.

B800	Mastectomy, NOS (including extended radical mastectomy)
B900	Surgery, NOS
B990	Unknown if surgery was performed; death certificate only

RX Summ – Recon Breast

This data item records the reconstruction procedure immediately following resection performed at any facility and is required beginning 2024 for breast cases only. Breast reconstruction was previously collected within the breast surgery codes.

Instructions for Coding

- ◆ Code the breast reconstruction code for Breast primaries performed at any facility with 1/1/24 and after.
- ◆ Code only the ipsilateral breast reconstruction.
- ◆ Immediate reconstruction is performed during the same operative session as the operative procedure coded in Data item RX Summ– Surg 2023.
- ◆ One surgeon can perform the surgical resection, and another can perform the reconstruction during the same operative session.
- ◆ Reconstruction performed on a different day than the breast primary definitive (most invasive) resection is not coded/collected.
- ◆ If the reconstruction was started but not completed, assign code A000.

- ◆ For codes A600-A900, information for this data item may be found in the Breast Reconstruction Plastic surgery report.
- ◆ Oncoplastic surgery is typically coded by the surgeon but sometime found in a separate plastic surgery operative report.
- ◆ Oncoplastic surgery is defined as rebuilding the breast tissue after breast cancer resection and is a way to reconstruct or reshape the breast after a lumpectomy or mastectomy and involves rearrangement of breast tissue to correct a defect.
- ◆ Leave this data item blank for cases diagnosed prior to 2024

Codes	Label
A000	No immediate reconstruction performed at any facility
A100	Tissue expanders place without implant or tissue placement
A200	Direct permanent implant placement immediately following surgery
A300	Reconstruction performed with parenchymal flap or adjacent tissue transfer
A400	Breast conserving resection with a breast reduction or lift
A500	Breast conserving resection and reconstruction with skin flaps
A600	Reconstruction with autologous tissue, source not specified
A610	Mastectomy reconstruction WITH abdominal tissue
A620	Mastectomy reconstruction WITH thigh tissue
A630	Mastectomy reconstruction WITH gluteal tissue
A640	Mastectomy reconstruction WITH back tissue
A900	Reconstruction performed, method unknown
A970	Implant based reconstruction, NOS
A980	Autologous tissue-based reconstruction. NOS
A990	Unknown if immediate reconstruction was performed

Macroscopic Evaluation of the Mesorectum

This data item records whether a Total Mesorectal Excision (TME) was performed and the macroscopic evaluation of the completeness of the excision. Numerous studies have demonstrated that total mesorectal excision (TME) improves local recurrence rates and corresponding survival up to 20%. Macroscopic pathologic assessment of the completeness of the mesorectum, scored as complete, partially complete or incomplete accurately predicts both local recurrence and distant metastasis.

Instructions for Coding

- ◆ The American Society of Colon and Rectal Surgeons states that total mesorectal excision is used for curative resection of tumors of the middle and lower thirds of the rectum, either as part of low anterior or abdomino-perineal resection. A tumor specific mesorectal excision should be used for tumors in the upper third of the rectum with the mesorectum divided ideally no less than 5 cm below the lower margin of the tumor. Path evaluation of the resected specimen has been shown to be a sensitive method of assessing the quality of rectal surgery.
- ◆ Information for this item from the pathology report only.
- ◆ Leave this field blank if primary site is other than C20.9
- ◆ Neoadjuvant therapy does not alter coding of this data item.
- ◆ Code 00 if patient did not have Total Mesorectal Excision.
- ◆ Codes 10,20 and 30 must be based on the pathology report.

- ◆ Registrars should not attempt to determine the level of completeness of TME when the pathology report does not indicate if TME incomplete, nearly complete or complete. Assign code 40.

<u>Code</u>	<u>Label</u>
00	Patient did not receive TME
10	Incomplete TME
20	Nearly Complete
30	Complete TME
40	TME performed not specified on path report as incomplete, Nearly complete, or complete
	TME performed by path report not available
	Physician statement that TME performed, no mention of incomplete, nearly complete, or complete status
99	Unknown if TME performed
Blank	Site not rectum (C20.9)

Date of First Surgical Procedure (Rx Date-Surgery)

This data item records the earliest date on which any first course surgical procedure was performed and can be used to sequence multiple treatment modalities and to evaluate the time intervals between treatments.

Instructions for Coding

- ◆ Record the date of the first surgical procedure of the types coded as Surgical Procedure of Primary Site, Scope of Regional Lymph Node Surgery (**excluding code 1**) or Surgical Procedure/Other Site performed **at this or any facility**
- ◆ A needle biopsy is **not** considered to be an excision, and therefore **not** a primary breast surgery. The date it was performed is **not** entered as the *Date of First Surgical Procedure*. It is now only entered in *Date of Surgical, Diagnostic and Staging Procedure*
- ◆ If a biopsy of the primary site (excluding needle biopsy) is the initial surgical procedure and leaves only microscopic residual tumor, code the date of the biopsy in this field

Example:

An excisional biopsy of a right forearm lesion done on 4/15/18 showed a Clark II melanoma extending to the deep margin. Re-excision on 4/22/18 did not show any residual tumor. Code the *Date of First Surgical Procedure* as 4/15/18

Date of Most Definitive Surgery (RX Date-Most Definitive Surgery)

This field records the date of the most definitive (most invasive) surgical procedure of the primary site performed as part of first course of treatment. Record the date on which the surgery described by Surgical Procedure of Primary Site was performed at this or any facility.

Reason for No Surgery of Primary Site (Reason for No Surgery)

This field records the reason that no surgery was performed on the primary site. This data item provides information related to the quality of care and describes why primary site surgery was not performed.

Instructions for Coding

- ◆ If *Surgical Procedure of Primary Site* is coded 00, then record the reason based on documentation in the patient record.
- ◆ Code 1 if the treatment plan offered multiple alternative treatment options and the patient selected treatment that did not include surgery of the primary site, or if the option of “no treatment” was accepted by the patient.
- ◆ Code 1 if *Surgical Procedure of Primary Site* is coded 98.
- ◆ Code 1 if primary site is coded to sites C42.0, C42.1, C42.3, C42.4, C76.0-C76.8, C80.9
- ◆ Code 7 if the patient refused recommended surgical treatment, made a blanket refusal of all recommended treatment, or refused all treatment before any was recommended.
- ◆ Code 8 if a physician recommended primary site surgery, but no further documentation is available yet to determine whether surgery was performed.
- ◆ Cases coded 8 can be followed and updated to a more specific code as appropriate.
- ◆ Code 9 if the treatment plan offered multiple choices, but it is unknown which treatment, if any was provided.

Reason No Surgery Codes

Code	Definition
0	Surgery of the primary site was performed.
1	Surgery of the primary site was not performed because it was not part of the planned first course treatment. Diagnosed at autopsy.
2	Surgery of the primary site was not recommended/Performed because it was contraindicated due to patient risk factors (comorbid conditions, advanced age, progression of tumor prior to planned surgery etc.)
5	Surgery of the primary site was not performed because the patient died prior to planned or recommended surgery.
6	Surgery of the primary site was not performed; it was recommended by the patient's physician but was not performed as part of the first course of therapy. No reason was noted in patient record.
7	Surgery of the primary site was not performed; it was recommended by the patient's physician, but this treatment was refused by the patient, the patient's family member, or the patient's guardian. The refusal was noted in patient record.
8	Surgery of the primary site was recommended, but it is unknown if it was performed. Further follow-up is recommended
9	It is unknown whether surgery of the primary site was recommended or performed. Death certificate only.

Examples:

Code	Reason
2	A patient with a primary tumor of the liver is not recommended for surgery due to advanced cirrhosis
8	A patient is referred to another facility for recommended surgical resection of a gastric carcinoma, but further information from the facility to which the patient was referred is not available

Surgical Margins of the Primary Site (RX Summ – Surgical Margins)

This data item records the final status of the surgical margins after resection of the primary tumor. It serves as a quality measure for pathology reports, is used for staging, and may be a prognostic factor in recurrence.

Instructions for Coding

- ◆ Record the margin status as it appears in the pathology report
- ◆ Codes 0–3 are hierarchical; if two codes describe the margin status, use the numerically higher code
- ◆ Code 7 if the pathology report indicates the margins could not be determined. If no surgery of the primary site was performed, code 8
- ◆ Code 9 if the pathology report makes no mention of margins or no tissue was sent to pathology or any case coded to primary site C420, C421, C423, C424, C760-C768, C770-C779, C809
- ◆ Code 8 if no surgery of primary site or tumor was diagnosed at autopsy.
- ◆ Code 9:
 - If path report does not mention margins or no tissue sent to pathology
 - If RxSumm -Surg 2023 is coded to A980 not applicable
 - If case is coded to C420, C421, C424, C760-C768, C770-C779 or C809
 - If diagnosis was by death certificate

Code	Label	Definition
0	No residual tumor	All margins are grossly and microscopically negative
1	Residual tumor, NOS	Involvement is indicated, but not otherwise specified
2	Microscopic residual tumor	Cannot be seen by the naked eye
3	Macroscopic residual tumor	Gross tumor of the primary site which is visible to the naked eye
7	Margins not evaluable	Cannot be assessed (indeterminate)
8	No primary site surgery	No surgical procedure of the primary site. Diagnosed at autopsy
9	Unknown or not applicable	It is unknown whether a surgical procedure to the primary site was performed; death certificate-only; for lymphomas with a lymph node primary site; an unknown or ill-defined primary; or for hematopoietic, reticuloendothelial, immunoproliferative, or myeloproliferative disease

Example:

Code	Reason
3	C18-Colon The pathology report from a colon resection describes the proximal margin as grossly involved with tumor (code 3) and the distal margin as microscopically involved (code 2). Code macroscopic involvement (code 3)

Lymphovascular Invasion

Lymphovascular invasion indicates the presence or absence of tumor cells in lymphatic channels (not lymph nodes) or blood vessels within the primary tumor as noted microscopically by the pathologist.

Instructions for Coding

1. Code from the pathology report.
2. Do not code perineural invasion in this field.

3. If identified, it should be coded as present/identified.
4. Information to code LVI can be taken from the primary tumor specimen or biopsy.
5. Code borderline or benign behavior neoplasm as negative or positive.
6. See page 102-103 of STORE for specific instructions on how to code LVI when neoadjuvant was given prior to resection.
7. Code 0 when the pathology report indicates no lymphovascular invasion.

Synonyms for LVI may include:

- Angiolymphatic invasion
- Blood vessel invasion
- Lymph vascular emboli
- Lymphatic invasion
- Vascular invasion
- Lymphovascular space invasion

Systemic/Surgery Sequence (RX Summ-System/Sur Seq)

Record the sequence of systemic therapy (Chemotherapy, Hormone, BRM and Transplant/Endocrine) and surgical procedures given as part of the first course of treatment. Use the following codes in addition to valid dates. **For the purpose of coding the data item systemic therapy sequence with Surgery, “Surgery” is defined as a Surgical Procedure of Primary Site (codes 10-90) or Scope of Regional Lymph Node Surgery (codes 2-7) or Surgical Procedure of Other Site (codes 1-5).**

Code	Definition
0	No systemic therapy and/or surgical procedures
2	Systemic therapy before surgery
3	Systemic therapy after surgery
4	At least one course of systemic therapy was given before and at least one more after a surgical procedure of primary site; scope of regional LN surgery; surgery to other regional site, distant site(s) or distant LNs was performed
5	Intraoperative systemic therapy
6	Intraoperative systemic therapy with other therapy administered before and/or after surgery
7	Systemic therapy both before and after surgery (administered between two separate surgical procedures)
9	Sequence unknown (both systemic therapy and surgery treatment given)

Note: If multiple first course treatment episodes were given such that both codes 4 and 7 seem to apply, use the code that defines the first sequence that applies.

The following provides clarification of systemic terms:

Chemotherapy –Antineoplastic drugs inhibit the reproduction of cancer cells by interfering with DNA synthesis and mitosis (i.e. gemcitabine, etoposide, capecitabine)

Hormone Therapy – Achieves antitumor effect through changes in hormonal balance (i.e. leuprolide acetate, levothyroxine sodium, anastrozole)

Immunotherapy –Alters the immune system or changes the host's response to tumor cells (i.e. panitumumab, rituximab, ramucirumab)

Endocrine Therapy – Use of radiation or surgical procedures that suppress the naturally occurring hormonal activity of the patient when cancer occurs at another site and alters or affects the long-term control of the cancer's growth. (i.e. oophorectomy, orchectomy when performed for purposes of hormonal suppression).

Hematologic Transplants – Bone marrow or stem cell transplants performed to protect patients from myelosuppression or bone marrow ablation associated with administration of high-dose chemotherapy or radiation therapy (i.e. stem cell harvest, bone marrow autologous transplant, umbilical cord stem transplant)

Scope of Regional Lymph Node Surgery (Rx Summ—Scope Reg LN Surg)

This field identifies the removal, biopsy, or aspiration of regional lymph node(s) at the time of surgery of the primary site or during a separate surgical event. This data item can be used to compare and evaluate the extent of surgical treatment.

Instructions for Coding

- ◆ The scope of regional lymph node surgery is collected for each surgical event even if surgery of the primary site was not performed.
- ◆ Record surgical procedures which aspirate, biopsy, or remove regional lymph nodes in an effort to diagnose or stage disease in this data item. Record the date of this surgical procedure in data item *Date of First Course of Treatment* and/or *Date of First Surgical Procedure* as appropriate.
- ◆ Codes 0–7 are hierarchical. If only one procedure can be recorded, code the procedure that is numerically higher and records the cumulative effect of all procedures.
- ◆ For intracranial and central nervous system primaries (C70.0–C70.9, C71.0–C71.9, C72.0–C72.9, C75.1–C75.3), code 9.
- ◆ For lymphomas (M-9590-9726, 9728-9732, 9734-9740, 9750-9762, 9811-9831, 9940, 9948 and 9971) with a lymph node primary site (C77.0–C77.9), code 9
- ◆ For an unknown or ill-defined primary site (C76.0–C76.8, C80.9) or for hematopoietic, reticuloendothelial, immunoproliferative, myeloproliferative disease or **Plasmacytoma bone** (C42.0, C42.1, C42.3, C42.4 or M-9727, **9731**, 9733, 9741-9742, 9764-9809, 9832, 9840-9931, 9945-9946, 9950-9967, and 9975-9992), code 9
- ◆ For Plasmacytoma, bone 9731/3, code 9.
- ◆ Do not code *distant* lymph nodes removed during surgery to the primary site for this data item. Distant nodes are coded in the data field *Surgical Procedure/Other Site*.
- ◆ Refer to the current *AJCC Cancer Staging System* for site-specific identification of regional lymph nodes.
- ◆ If the procedure coded in this item was provided to prolong a patient's life by controlling symptoms, to alleviate pain, or to make the patient more comfortable, then also record this surgery in the item *Palliative Care*.

Code	MCR status*
0	None
1	Biopsy or aspiration of regional lymph node, NOS
2	Sentinel lymph node biopsy
3	Number of regional nodes removed unknown or not stated; regional lymph nodes removed,
4	1–3 regional lymph nodes removed
5	4 or more regional lymph nodes removed
6	Sentinel node biopsy and code 3, 4, or 5 at same time, or timing not stated
7	Sentinel node biopsy and code 3, 4, or 5 at different times
9	Unknown or not applicable

Note: One important use of registry data is the tracking of treatment patterns over time. In order to compare contemporary treatment with previously published treatment based on former codes, or to data unmodified from pre-1998 definitions, the ability to differentiate surgeries in which four or more regional lymph nodes are removed is desirable. However, it is *very important* to note that the distinction between codes 4 and 5 is made to permit comparison of current surgical procedures with procedures coded in the past when the removal of fewer than 4 lymph nodes was not reflected in surgery codes. *It is not intended to reflect clinical significance when applied to a particular surgical procedure. It is important to avoid inferring, by data presentation or other methods, that one category is preferable to another within the intent of these items.*

Examples

Code	Reason
0	There was an attempt at regional lymph node dissection or sentinel lymph node dissection, but no lymphnodes were found in the pathological specimen
1	(C14.0-Pharynx) Aspiration of regional lymph node to confirm histology of widely metastatic disease
2	(C44.5-Skin of Back) Patient has melanoma of the back. A sentinel lymph node dissection was done with the removal of one lymph node. This node was negative for disease
3	(C61.9-Prostate) Bilateral pelvic lymph node dissection for prostate cancer
6	(C50.3-Breast) Sentinel lymph node biopsy of right axilla, followed by right axillary lymph node dissection during the same surgical event
9	(C34.9-Lung) Patient was admitted for radiation therapy following surgery for lung cancer. There is no documentation on the extent of surgery in patient records.

Surgical Procedure/Other Site (RX Summ – Surg Other Reg/Dis)

Records the surgical removal of *distant lymph nodes* or other tissue(s) or organ(s) removed beyond the primary site. **The removal of non-primary tissue documents the extent of surgical treatment and to evaluate for malignant involvement.**

Instructions for Coding

- ◆ Assign the highest numbered code that describes the surgical resection of other tissue or organs beyond the primary site surgical code when performed to evaluate for malignant involvement.
- ◆ If other tissue or organs are removed during primary site surgery to evaluate for malignant involvement and are not specifically defined by the site-specific *Surgical Procedure of the Primary Site* code, assign the highest numbered code that describes the surgical resection of other tissue or organs beyond the primary site surgical code.
- ◆ Assign the highest numbered code that describes the surgical resection of *distant lymph node(s)*
- ◆ Incidental removal of tissue or organs is not a “Surgical Procedure/Other Site.”
- ◆ *Surgical Procedure/Other Site* is collected for each surgical event even if surgery of the primary site was not performed.
- ◆ Assign code 0 if tumor was diagnosed at autopsy.
- ◆ Assign Code 1 for any case coded to primary site C42.0, C42.1, C42.3, C42.4, C76.0-C76.8,

C77.0- C77.9, C80.9 excluding cases coded to the Cervical Lymph Nodes and Unknown Primary schema 00060.

- ◆ Assign code 9 if diagnosis was by death certificate only.
- ◆ If the procedure coded in this field was provided to prolong the patient's live by controlling symptoms, alleviating pain or to make the patient more comfortable, then also record this surgery in the Palliative Care at this Facility field.

Date Radiation Started (RX Date - Radiation)

This field records the date on which radiation therapy began at any facility that is part of the first course of treatment. It is important to be able to sequence the use of multiple treatment modalities and to evaluate the time intervals between the treatments. For some diseases, the sequence of radiation and surgical therapy is important when determining the analytic utility of pathologic staging formation.

Instructions for Coding

- ◆ See STORE for detailed instructions on Radiation Primary Treatment Volume, Radiation to Draining Lymph Nodes, External Beam Radiation Planning Technique, Dose per Fraction, Number of Fractions, and Total Dose.
- ◆ If radiation therapy is the first or only treatment administered to the patient, then the date radiation started should be the same as the date entered into the item *Date of First Course of Treatment*.
- ◆ The date when treatment started will typically be found in the radiation oncologist's summary letter for the first course of treatment.
- ◆ Record the date as completely as possible. Leave any unknown portions of the date blank.

Example: The patient came to your facility for chemotherapy in March of 2021 after having had surgery in February of 2021, exact day unknown. CCYY = 2021, MM = 02DD = blank

Location of Radiation

This data item provides information useful to understanding the referral patterns for radiation therapy services and assessing quality and outcome of radiation by delivery site. Code the first course of treatment. Do not include subsequent treatments in the coding of this data item.

Code Label

0	No radiation treatment
1	All radiation treatment at this facility
2	Radiation started at reporting facility, continued elsewhere
3	Radiation started elsewhere, continued at this facility
4	All radiation treatment elsewhere

Phase 1 Radiation Treatment Modality

Historically, the previously named Regional Treatment Modality [1570] utilized codes that were not mutually exclusive. Rather, it included codes describing a mix of modalities, treatment planning techniques, and delivery techniques that are commonly utilized by radiation oncologists. The 2018 implementation of separate phase-specific data items for the recording of radiation modality (Radiation Treatment Modality) and radiation treatment

planning techniques (Radiation External Beam Planning Technique) will clarify this information using mutually exclusive categories.

NOTE: Beginning in 2018, MCR collects only one of the new fields: Phase 1 Radiation Treatment Modality.

Instructions for Coding

Radiation treatment modality will typically be found in the radiation oncologist's summary letter for the first course of treatment. Segregation of treatment components into Phases and determination of the respective treatment modality may require assistance from the radiation oncologist to ensure consistent coding.

- ◆ The first phase may be commonly referred to as an initial plan and a subsequent phase may be referred to as a boost or cone down.
- ◆ A new phase begins when there is a clinically meaningful change in target volume, treatment fraction size (i.e., dose given during a session), modality or treatment technique. Any one of these changes will mean that a new radiation plan will be generated in the treatment planning system. Subsequent phases are not collected by MCR.
- ◆ For purposes of this data item, photons, x-rays and gamma-rays are equivalent.
- ◆ Use code 13 - Radioisotopes, NOS for radioembolization procedures, e.g. intravascular Yttrium-90 for cases diagnosed January 1, 2018, or later. For cases diagnosed prior to January 1, 2018, use code 07 Brachytherapy, NOS.
- ◆ This data item intentionally does not include reference to various MV energies because this is not a clinically important aspect of technique. A change in MV energy (e.g., 6MV to 12MV) is not clinically relevant and does not represent a change in treatment technique. It is rare for change in MV energy to occur during any phase of radiation therapy.
- ◆ Code 00 when tumor is diagnosed at autopsy
- ◆ Code 98 was added to data item Phase I Radiation Treatment Modality for cases where it is known radiation was given but modality is unknown.
- ◆ Code 99 is used when it is unknown if radiation was given or if diagnosis was by death certificate only.
- ◆ Phase I must be coded.
 - Note: Do not confuse a radioiodine scan with treatment. Only treatment is recorded in this item.

Note: Do not confuse a radioiodine scan with treatment. Only treatment is recorded in this item.

Code	Label
00	No radiation treatment
01	External beam, NOS
02	External beam, photons
03	External beam, protons
04	External beam, electrons
05	External beam, neutrons
06	External beam, carbon ions
07	Brachytherapy, NOS - Use for radioembolization procedures for cases prior to 1/1/2018
08	Brachytherapy, intracavitary, LDR
09	Brachytherapy, intracavitary, HDR
10	Brachytherapy, Interstitial, LDR
11	Brachytherapy, Interstitial, HDR
12	Brachytherapy, electronic

- 13 Radioisotopes, NOS – Use for radioembolization procedures for cases 1/1/2018 and later
- 14 Radioisotopes, Radium-223
- 15 Radioisotopes, Strontium-89
- 16 Radioisotopes, Strontium-90
- 98 Radiation treatment administered, modality unknown
- 99 Unknown if radiation treatment administered systemic therapy, **death certificate only**

Reason for No Radiation

This data item records the reason that no regional radiation therapy was administered to the patient. When evaluating the quality of care, it is useful to know the reason various methods of therapy were not used, and whether the failure to provide a given type of therapy was due to the physician's failure to recommend that treatment, or due to the refusal of the patient, a family member, or the patient's guardian.

Instructions for Coding

- ◆ If *Regional Treatment Modality* is coded 00, then record the reason based on documentation in patient record.
- ◆ Code 1 if the treatment plan offered multiple alternative treatment options and the patient selected treatment that did not include radiation therapy.
- ◆ Code 7 if the patient refused recommended radiation therapy, made a blanket refusal of all recommended treatment, or refused all treatment before any was recommended.
- ◆ Code 8 if it is known that a physician recommended radiation treatment, but no further documentation is available yet to confirm its administration.
- ◆ Code 8 to indicate referral to a radiation oncologist was made and the registry can follow to determine whether radiation was administered. If follow-up to the specialist or facility determines the patient was never there and no other documentation can be found, code 1.
- ◆ Cases coded 8 should be followed and updated to a more specific code as appropriate.
- ◆ Code 9 if the treatment plan offered multiple alternative treatment options, but it is unknown which treatment, if any, was provided.

Code Definition

- 0 Radiation therapy was administered
- 1 Radiation therapy was not administered because it was not part of the planned first course treatment. Diagnosed at autopsy.
- 2 Radiation therapy was not recommended/administered because it was contraindicated due to other patient risk factors (comorbid conditions, advanced age, progression of tumor prior to planned radiation, etc.)
- 5 Radiation therapy was not administered because the patient died prior to planned or recommended therapy.
- 6 Radiation therapy was not administered; it was recommended by the patient's physician but was not administered as part of first course treatment. No reason was noted in patient record.
- 7 Radiation therapy was not administered; it was recommended by the patient's physician, but this treatment was refused by the patient, the patient's family member, or the patient's guardian. The refusal was noted inpatient record.
- 8 Radiation therapy was recommended, but it is unknown whether it was administered.
- 9 It is unknown if radiation therapy was recommended or administered. Death certificate only.

Radiation/Surgery Sequence (Rx Summ—Surg/Rad Sequence)

This data item records the sequencing of radiation and surgical procedures given as part of the first course of treatment. The sequence of radiation and surgical procedures cannot always be determined using the date on which each modality was started or performed, so this field can be used to more precisely evaluate the timing of treatment delivery by modality.

Instructions for Coding

- ◆ Surgical procedures include Surgical Procedure of Primary Site (codes 10-90), Scope of Regional Lymph Node Surgery (codes 2-7), Surgical Procedure/Other Site (codes 1-5). If all of these procedures are coded 0, or it is not known whether the patient received both surgery and radiation, then this item should be coded 0
- ◆ If the patient received both radiation therapy and any one or a combination of the following surgical procedures: *Surgical Procedure of Primary Site*, *Regional Lymph Node Surgery*, or *Surgical Procedure/Other Site*, then code this item 2-9, as appropriate
- ◆ If multiple first course treatment episodes were given such that both codes 4 and 7 seem to apply, use the code that defines the first sequence that applies.

Code	Label	Definition
0	No radiation therapy and/or surgical procedures	No radiation therapy given or unknown if radiation therapy given; and/or no surgery of the primary site; no scope of regional lymph node surgery; no surgery to other regional site(s), distant site(s), or distant lymph node(s) or it is unknown whether any surgery given
2	Radiation therapy before surgery	Radiation therapy given before surgery to primary site; scope of regional lymph node surgery, surgery to other regional site(s), distant site(s), or distant lymph node(s)
3	Radiation therapy after surgery	Radiation therapy given after surgery to primary site; scope of regional lymph node surgery, surgery to other regional site(s), distant site(s), or distant lymph node(s)
4	Radiation therapy both before and after surgery	At least one phase of radiation therapy was given before and at least one more phase after a surgical procedure
5	Intraoperative radiation therapy	Intraoperative therapy given during surgery to primary site; scope of regional lymph node surgery, surgery to other regional site(s), distant site(s), or distant lymph node(s)
6	Intraoperative radiation therapy with other radiation administered before or after surgery	Intraoperative radiation therapy given during surgery to primary site; scope of regional lymph node surgery, surgery to other regional site(s), distant site(s), or distant lymph node(s) with other radiation therapy administered before or after surgery to primary site; scope of regional lymph node surgery, surgery to other regional site(s), distant site(s), or distant lymph node(s)
7	Surgery both before and after radiation	Radiation was administered between two separate surgical procedures to the primary site; regional lymph nodes, surgery to other regional site(s), distant site(s) or distant lymph node(s)
9	Sequence unknown	Administration of radiation therapy and surgery to primary site, scope of regional lymph node surgery, surgery to other regional site(s), distant site(s), or distant lymph node(s) were performed and the sequence of the treatment is not stated in the record.

Chemotherapy (Rx Summ—Chemo)

This data item allows for the evaluation of the administration of chemo-therapeutic agents as part of the first course of therapy. Chemotherapy consists of a group of anticancer drugs that inhibit the reproduction of cancer cells by interfering with DNA synthesis and mitosis. Systemic therapy may involve the administration of one or a combination of agents. If chemotherapy was not administered, then this item also records the reason it was not given. When evaluating the quality of care, it is useful to know whether chemotherapy was given and, if not, the reason it was not.

Instructions for Coding

- ◆ Code 00 if chemotherapy was not administered to the patient, and it is known that it is not usually administered for this type and stage of cancer or tumor is diagnosed at autopsy.
- ◆ Code 00 if the treatment plan offered multiple alternative treatment options, and the patient selected treatment that did not include chemotherapy or if the option of 'no treatment' was accepted by the patient.
- ◆ If it is known that chemotherapy is usually administered for this type and stage of cancer, but was not administered to the patient, use code 82, 85, 86, or 87 to record the reason why it was not administered.
- ◆ Code 87 if the patient refused recommended chemotherapy, made a blanket refusal of all recommended treatment, or refused all treatment before any was recommended.
- ◆ Code 88 if it is known that a physician recommended the patient receive chemotherapy, but no further documentation is available yet to confirm its administration.
- ◆ Code 88 to indicate referral was made to a medical oncologist. The registry can follow-up to determine whether it was given. If follow-up with the specified specialist or facility indicates the patient was never there, code 00.
- ◆ Code 99 if it is not known whether chemotherapy is usually administered for this type and stage of cancer and there is no mention in the patient record whether it was recommended or administered.
- ◆ Code chemoembolization as chemotherapy when the embolizing agent(s) is a chemotherapeutic drug(s) or when the term chemoembolization is used with no reference to the agent. Use SEER*Rx Interactive Drug Database to determine whether the drugs are classified as chemotherapeutic agents.
- ◆ Code chemotherapy when the patient has primary or metastatic cancer in the liver and the only information about embolization is a statement that the patient has chemoembolization, tumor embolization or embolization of the tumor in the liver. If alcohol is specified as the embolizing agent, even in the liver, code the treatment as Other Therapy.
- ◆ Code chemoembolization as 01, 02, or 03 depending on the number of chemotherapeutic agents involved.
- ◆ If the managing physician changes one of the agents in a combination regimen, and the replacement agent belongs to a different subcategory (chemotherapeutic agents are grouped as alkylating agents, antimetabolites, natural products or other miscellaneous). First course treatment would not necessarily end due to these changes and does not automatically represent subsequent therapy. Changes in an agent or agents may occur due to reasons other than disease progression.
- ◆ Refer to the *SEER*Rx Interactive Drug Database* (<http://seer.cancer.gov/tools/seerrx/>) for a list of chemotherapeutic agents.
- ◆ If chemotherapy was provided to prolong a patient's life by controlling symptoms, to alleviate pain, or to make the patient more comfortable, then also record the chemotherapy administered

in the item Palliative Care.

Code	Definition
00	None. Chemotherapy was not part of the planned first course of therapy. Diagnosed at autopsy
01	Chemotherapy administered as first course therapy, but the type and number of agents is not documented in patient record
02	Single-agent chemotherapy administered as first course therapy
03	Multi-agent chemotherapy administered as first course therapy
82	Chemotherapy was not recommended/administered because it was contraindicated due to patient risk factors (ie, comorbid conditions, advanced age, progression of tumor prior to administration, etc.)
85	Chemotherapy was not administered because the patient died prior to planned or recommended therapy
86	Chemotherapy was not administered. It was recommended by the patient's physician but was not administered as part of the first course of therapy. No reason was stated in patient record
87	Chemotherapy was not administered. It was recommended by the patient's physician, but this treatment was refused by the patient, a patient's family member, or the patient's guardian. The refusal was noted in patient record
88	Chemotherapy was recommended, but it is unknown if it was administered
99	It is unknown whether a chemotherapeutic agent(s) was recommended or administered because it is not stated in patient record. Death certificate only

Examples

Code	Reason
01	A patient with primary liver cancer is known to have received chemotherapy; however, the name(s) of agent(s) administered is not stated in patient record
02	A patient with Stage III colon cancer is treated with a combination of fluorouracil and levamisole. Code the administration of fluorouracil as single agent chemotherapy, and levamisole as an immunotherapeutic agent
02	A patient with non-Hodgkin lymphoma is treated with fludarabine
03	A patient with early-stage breast cancer receives chemotherapy. The patient chart indicates that a regimen containing doxorubicin is to be administered
86	After surgical resection of an ovarian mass the following physician recommends chemotherapy. The patient record states that chemotherapy was not subsequently administered to the patient, but the reason why chemotherapy was not administered is not given

Date Chemotherapy Started (Rx Date—Chemo)

This field records the date of initiation of chemotherapy that is part of the first course of treatment. Collecting dates for each treatment modality allows the sequencing of multiple treatments and aids in the evaluation of time intervals from diagnosis to treatment and from treatment to recurrence.

Instructions for Coding

- ◆ Record the first or earliest date on which chemotherapy was administered by any facility. This date corresponds to administration of the agents coded in *Chemotherapy*.
- ◆ Record the date as completely as possible. Leave any unknown portions of the date blank.

Example: The patient came to your facility for surgery in March of 2021 after having had chemotherapy in February of 2021, exact day unknown. CCYY = 2021, MM = 02, DD = blank

Hormone (Hormone/Steroid) Therapy (Rx Summary-Hormone)

This data item records the type of hormone therapy administered as first course treatment, or the reason it was not given. Hormone therapy consists of a group of drugs that may affect the long-term control of a cancer's growth. It is not usually used as a curative measure. When evaluating quality of care, this data item allows for the evaluation of the administration of hormonal agents as part of the first course of therapy. In addition, it is sometimes useful to know the reason hormone therapy was not administered.

Instructions for 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 to the patient, and it is known that it is not usually administered for this type and stage of cancer.
- ◆ Code 00 if the treatment plan offered multiple alternative treatment options, and the patient selected treatment that did not include hormone therapy or if the option of 'no treatment' was accepted by the patient.
- ◆ Code 01 for thyroid replacement therapy which inhibits TSH (thyroid-stimulating hormone). TSH is a product of the pituitary gland that can stimulate tumor growth.
- ◆ If it is known that hormone therapy is usually administered for this type and stage of cancer, but was not administered to the patient, use code 82, 85, 86, or 87 to record the reason why it was not administered.
- ◆ Code 87 if the patient refused recommended hormone therapy, made a blanket refusal of all recommended treatment, or refused all treatment before any was recommended.
- ◆ Code 88 if it is known that a physician recommended hormone therapy, but no further documentation is available yet to confirm its administration.
- ◆ Code 88 to indicate the patient was referred to a medical oncologist. The registry can follow the case for hormone therapy. If follow-up with the specified specialist or facility indicates the patient was never there, code 00.
- ◆ Code 99 if it is not known whether hormone therapy is usually administered for this type and stage of cancer, and there is no mention in the patient record whether it was recommended or administered.
- ◆ Refer to the *SEER*Rx Interactive Drug Database* (<http://seer.cancer.gov/tools/seerrx/>) for a list of hormonal agents. Drugs listed as hormonal agents should be coded as Hormone Therapy

regardless of primary sites listed in SEER*RX for that agent.

- ◆ If hormone therapy was provided to prolong a patient's life by controlling symptoms, to alleviate pain, or to make the patient more comfortable, then also record the hormone therapy administered in the item *Palliative Care*

Code	Definition
00	None. Hormone therapy was not part of the planned first course of therapy. Diagnosed at autopsy
01	Hormone therapy administered as first course therapy
82	Hormone therapy was not recommended/administered because it was contraindicated due to patient risk factors (i.e., comorbid conditions, advanced age, progression of tumor prior to administration, etc.)
85	Hormone therapy was not administered because patient died prior to planned or recommended therapy
86	Hormone therapy was not administered. It was recommended by the patient's physician but was not administered as part of the first course of therapy. No reason was stated in patient record
87	Hormone therapy was not administered. It was recommended by the patient's physician, but this treatment was refused by the patient, a patient's family member, or the patient's guardian. The refusal was noted in patient record
88	Hormone therapy was recommended, but it is unknown if it was administered
99	It is unknown whether a hormonal agent(s) was recommended or administered because it is not stated in patient record. Death certificate only

Examples

Code	Reason
00	A patient has advanced lung cancer with multiple metastases to the brain. The physician orders Decadron to reduce the edema in the brain and relieve the neurological symptoms. Decadron is not coded as hormonal therapy
00	A patient with breast cancer may be treated with aminoglutethimide (Cytadren, Elipten), which suppresses the production of glucocorticoids and mineralocorticoids. This patient must take glucocorticoid (hydrocortisone) and may also need a mineralocorticoid (Florinef) as a replacement therapy
00	A patient with advanced disease is given prednisone to stimulate the appetite and improve nutritional status. Prednisone is not coded as hormone therapy in this example
01	A patient with metastatic prostate cancer is administered flutamide (an antiestrogen)
87	A patient with metastatic prostate cancer declines the administration of Megace (a progestational agent) and the refusal is noted in the patient record

Date Hormone Therapy Started (RX Date—Hormone)

This field records the date of initiation of hormone therapy that is part of the first course of treatment. Collecting dates for each treatment modality allows the sequencing of multiple treatments and aids in the evaluation of time intervals from diagnosis to treatment and from treatment to recurrence.

Instructions for Coding

- ◆ Record the first or earliest date on which hormone therapy was administered by any facility. This date corresponds to administration of the agents coded in *Hormone*.
- ◆ If a change is made from Tamoxifen to Arimidex, this is still all first course treatment.
- ◆ Record the date as completely as possible. Leave any unknown portions of the date blank.

Example: The patient came to your facility for prostatectomy in March of 2021 after having begun Lupron in February of 2021, exact day unknown. CCYY = 2021, MM= 02, DD = blank

Immunotherapy (BRM) (Rx Summ—BRM)

Records the type of immunotherapy administered as first course treatment, or the reason it was not given. Immunotherapy consists of biological or chemical agents that alter the immune system or change the host's response to tumor cells. This data item allows for the evaluation of immunotherapeutic agents as part of the first course of therapy. In addition, when evaluating the quality of care, it is useful to know the reason immunotherapy was not administered.

Instructions for Coding

- ◆ Code 00 if immunotherapy was not administered to the patient, and it is known that it is not usually administered for this type and stage of cancer.
- ◆ Code 00 if the treatment plan offered multiple alternative treatment options, and the patient selected treatment that did not include immunotherapy or if the option of 'no treatment' was accepted by the patient **or the tumor was diagnosed at autopsy**.
- ◆ If it is known that immunotherapy is usually administered for this type and stage of cancer, but was not administered to the patient, use code 82, 85, 86, or 87 to record the reason why it was not administered.
- ◆ Code 87 if the patient refused recommended immunotherapy, made a blanket refusal of all recommended treatment, or refused all treatment before any was recommended.
- ◆ Code 88 if a physician recommended immunotherapy, but no further documentation is available yet to confirm its administration.
- ◆ Code 88 to indicate a referral was made to a medical oncologist about immunotherapy. The registry can follow the case to determine whether it was given or why not. If follow-up to the specialist or facility determines the patient was never there, code 00
- ◆ Code 99 if it is not known whether immunotherapy is usually administered for this type and stage of cancer, and there is no mention in the patient record whether it was recommended or administered.
- ◆ Refer to the *SEER*Rx Interactive Drug Database* (<http://seer.cancer.gov/tools/seerrx/>) for a list of immunotherapeutic agents. Drugs listed as immunotherapeutic agents should be coded as Immunotherapy regardless of primary sites listed in SEER*RX for that agent.

- ◆ If immunotherapy was provided to prolong a patient's life by controlling symptoms, to alleviate pain, or to make the patient more comfortable, then also record the immunotherapy administered in the item *Palliative Care*.

Code	Definition
00	None, immunotherapy was not part of the planned first course of therapy. Diagnosed at autopsy.
01	Immunotherapy administered as first course of therapy
82	Immunotherapy was not recommended/administered because it was contraindicated due to patient risk factors (i.e., comorbid conditions, advanced age, progression of tumor prior to administration, etc.)
85	Immunotherapy was not administered because the patient died prior to planned or recommended therapy
86	Immunotherapy was not administered. It was recommended by the patient's physician but was not administered as part of the first course of therapy. No reason was stated in patient record
87	Immunotherapy was not administered. It was recommended by the patient's physician, but this treatment was refused by the patient, patient's family member or the patient's guardian. The refusal was noted in patient record
88	Immunotherapy was recommended, but it is unknown if it was administered
99	It is unknown whether an immunotherapeutic agent(s) was recommended or administered because it is not stated in patient record. Death certificate only

Examples

Code	Reason
01	A patient with malignant melanoma is treated with interferon
85	Before recommended immunotherapy could be administered, the patient died from cancer

Date Immunotherapy Started (Rx Date—BRM)

This field records the date of initiation of immunotherapy or a biologic response modifier (BRM) that is part of the first course of treatment. Collecting dates for each treatment modality allows the sequencing of multiple treatments and aids in the evaluation of time intervals from diagnosis to treatment and from treatment to recurrence.

Instructions for Coding

- ◆ Record the first or earliest date on which immunotherapy or a biologic response modifier was administered by any facility.
- ◆ Record the date as completely as possible. Leave any unknown portions of the date blank

Example: The patient came to your facility for cystectomy in March of 2021 after having undergone a series of BCG treatments beginning in January of 2021, exact day unknown. CCYY = 2021, MM = 01 DD = blank

Hematologic Transplant and Endocrine Procedures (Rx Summ—Transplnt/Endocrine)

This data item identifies systemic therapeutic *procedures* administered as part of the first course of treatment, or the reason none of the procedures was performed. Procedures coded in this field include bone marrow transplants, stem cell harvests with rescue (stem cell transplants), and endocrine surgery and/or radiation performed for hormonal effect when cancer originates at another site. Evaluation of this data item allows analysis of patterns of care involving alteration of the immune system or changes to the patient's tumor response that does not involve administration of antineoplastic agents. In addition, when evaluating quality of care, it is useful to know the reason these *procedures* were not performed. **Enter text information for Hematologic Transplant and Endocrine Procedures in the BRM text box as NAACCR does not have a text box in the metafile for this information.**

Instructions for 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 transplant or endocrine procedure was not administered to the patient, and it is known that these procedures are not usually administered for this type and stage of cancer.
- ◆ Code 00 if the treatment plan offered multiple alternative treatment options, and the patient selected treatment that did not include a transplant or endocrine procedure or if the option of 'no treatment' was accepted by the patient.

- ◆ As first course therapy, hematologic procedures will rarely be administered in conjunction with endocrine radiation or surgery. The use of code 40 in response to this data item should be reviewed and confirmed with the managing physician.
- ◆ If it is known that a transplant or endocrine procedure is usually administered for this type and stage of cancer, but was not administered to the patient, use code 82, 85, 86, or 87 to record the reason why it was not administered.
- ◆ Code 87 if the patient refused a recommended transplant or endocrine procedure, made a blanket refusal of all recommended treatment, or refused all treatment before any was recommended.
- ◆ Code 88 if it is known that a physician recommended a hematologic transplant or endocrine procedure, but no further documentation is available yet to confirm its administration.
- ◆ Code 88 to indicate referral to a specialist for hematologic transplant or endocrine procedures. The registry can follow the case. If follow-up to the specified specialist or facility determines the patient was never there, code 00.
- ◆ Use code 88 if a bone marrow or stem cell harvest was undertaken but was not followed by a rescue or re-infusion as part of first course treatment.
- ◆ Code 99 if it is not known whether a transplant or endocrine procedure is usually administered for this type and stage of cancer, and there is no mention in the patient record whether it was recommended or administered.
- ◆ If the hematologic transplant or endocrine procedure coded in this item was provided to prolong a patient's life by controlling symptoms, to alleviate pain, or to make the patient more comfortable, then also record the hematologic transplant or endocrine procedure provided in the items *Palliative Care*, as appropriate.

Code	Definition
00	No transplant procedure or endocrine therapy was administered as part of first course therapy. Diagnosed at autopsy
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)
82	Hematologic transplant and/or endocrine surgery/radiation was not recommended/administered because it was contraindicated due to patient risk factors (i.e., comorbid conditions, advanced age, progression of disease prior to administration, etc.)
85	Hematologic transplant and/or endocrine surgery/radiation was not administered because the patient died prior to planned or recommended therapy
86	Hematologic transplant and/or endocrine surgery/radiation was not administered. It was recommended by the patient's physician but was not administered as part of the first course of therapy. No reason was stated in patient record

00 No transplant procedure or endocrine therapy was administered as part of first course therapy. Diagnosed at autopsy

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)

82 Hematologic transplant and/or endocrine surgery/radiation was not recommended/administered because it was contraindicated due to patient risk factors (i.e., comorbid conditions, advanced age, progression of disease prior to administration, etc.)

85 Hematologic transplant and/or endocrine surgery/radiation was not administered because the patient died prior to planned or recommended therapy

86 Hematologic transplant and/or endocrine surgery/radiation was not administered. It was recommended by the patient's physician but was not administered as part of the first course of therapy. No reason was stated in patient record

- 87 Hematologic transplant and/or endocrine surgery/radiation was not administered. It was recommended by the patient's physician, but this treatment was refused by the patient, a patient's family member, or the patient's guardian. The refusal was noted in patient record
- 88 Hematologic transplant and/or endocrine surgery/radiation was recommended, but it is unknown if it was administered
- 99 It is unknown whether hematologic transplant and/or endocrine surgery/radiation was recommended or administered because it is not stated in patient record. Death certificate only

Other Treatment (RxSumm—Other)

This field identifies other treatments that cannot be defined as surgery, radiation, or systemic therapy according to the defined data items in this manual. Information on other therapies are used to describe and evaluate the quality of care and treatment practices. **First course treatment does not necessarily end due to the managing physician changing an agent or agents in a regimen to an agent of a different group (chemotherapeutic agents are grouped as alkylating agent, antimetabolites, natural products or other miscellaneous). Changes in an agent(s) may occur due to reason other than disease progression. A change to the regimen does not automatically represent subsequent therapy.**

Instructions for 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. 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 certain **hematopoietic diseases ONLY**. Consult the most recent version of the Hematopoietic Manual and database for instructions to code other treatments for a specific disease.
- ◆ Embolization refers to the intentional blocking of an artery or vein. Chemoembolization blocks the blood supply to the tumor surgically or mechanically and anticancer drugs are administered directly into the tumor. Radioembolization is combined with an injection of small radioactive beads or coils into an organ or tumor.
- ◆ **Do not code presurgical embolization** of hypervascular tumors with particles, coils or alcohol.
- ◆ Code 1 for PUVA (psoralen and long-wave ultraviolet radiation.)
- ◆ A complete description of the treatment plan should be recorded in the text field for “Other Treatment” on the abstract.
- ◆ If other treatment was provided to prolong a patient’s life by controlling symptoms, to alleviate pain, or to make the patient more comfortable, then also record the other treatment administered in the item *Palliative Care*.
- ◆ Code 8 if it is known that a physician recommended treatment coded as Other Treatment, and no further documentation is available yet to confirm its administration.
- ◆ Code 8 to indicate referral to a specialist for Other Treatment. The registry can follow. If follow-up with the specialist or facility determines the patient was never there, code 0.

Code	Label	Definition
0	None	All cancer treatment was coded in other treatment fields (surgery, radiation, systemic therapy). Patients received no cancer treatment. Diagnosed at autopsy
1	Other	Cancer treatment that cannot be appropriately assigned to specified treatment data items (surgery, radiation, systemic therapy)
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
7	Refusal	Other treatment was not administered. It was recommended by the patient's physician, but this treatment (which would have been coded 1, 2, or 3) was refused by the patient, a patient's family member, or the patient's guardian. The refusal was noted in the patient record
8	Recommended; unknown if administered	Other treatment was recommended, but it is unknown whether it was administered
9	Unknown	It is unknown whether other treatment was recommended or administered, and there is no information in the medical record to confirm the recommendation or administration of other treatment. Death certificate only

Date Other Treatment Started (Rx Date—Other)

Records the start dates for other treatments which cannot be coded as surgery, radiation, or systemic therapy according to the defined data items in this manual. Collecting dates for each treatment modality allows for the sequencing of multiple treatments and aids in the evaluation of time intervals from diagnosis to treatment and from treatment to recurrence.

Instructions for Coding

- ◆ Record the date on which the care coded as *Other Treatment* was initiated
- ◆ If other treatment is the first or only treatment administered to the patient, then the *Date Other Treatment Started* should be the same as the *Date of First Course of Treatment*.

Chapter 10

OUTCOME INFORMATION

Date of Last Contact or Death (Date of Last Contact)

This field records the date of last contact with the patient or the date of death. This information is used for patient follow-up and outcome studies.

Instructions for Coding

- ◆ Record the last date on which the patient was known to be alive or the date of death.
- ◆ If a patient has multiple primaries, all records should have the same date of last contact.
- ◆ Date of Last Contact or Death does not allow blanks STORE 2025 page 273
- ◆ The traditional format for Date of Last Contact is MMDDCCYY, with 99 identifying unknown month or day, and 99999999 representing an entirely unknown date.

Vital Status

Record the patient's vital status at the date of the last contact.

If a patient has multiple primaries, all records should have the same vital status code.

- 0 - Dead
- 1 - Alive

Cancer Status

Records the presence or absence of clinical evidence of the reported primary at the date the patient was last known to be alive, or at the date of death.

Instructions for Coding

- ◆ Cancer status is based on information from the patient's physician or other official source such as a death certificate.
- ◆ The patient's cancer status should be changed only if new information is received from the patient's physician or other official source. If information is obtained from the patient, a family member, or other non-physician, then cancer status is not updated.
- ◆ Cancer status changes if the patient has a recurrence or relapse.
- ◆ If a patient has multiple primaries, each primary could have a different cancer status.

- 1 No evidence of this cancer
- 2 Evidence of this cancer
- 9 Unknown, indeterminate whether this cancer is present: not stated in patient record

Example

Code	Reason
1	Patient with hematopoietic disease who is in remission
1	A patient is seen by the physician on February 2, 2020, with no evidence of this tumor. The patient did not return to the physician. The patient was then called by the registry on March 12, 2021. The <i>Date of Last Contact or Death</i> is updated, but the cancer status is not
2	A patient with prostate cancer is diagnosed with bone metastasis in April 2020. The registrar finds an obituary documenting the patient's death in a nursing home in June 2020.

Underlying Cause of Death (Cause of Death)

Underlying cause of death may be found on the death certificate or in the medical record. If the *Date of Last Contact/Death* is on or after **1/1/2000**, the Cause of Death must be coded in the abstract using the ICD-10-CM. If the death certificate/death information is not available or the field is not applicable use the following codes:

0000 - Patient alive at last contact

7777 - State death certificate or listing not available

7797 - State death certificate or listing available, underlying cause of death not coded

Note: Death certificates from the Missouri Bureau of Vital Statistics are coded using ICD-10-CM. A complete listing of ICD-10-CM codes may also be found on the MCR website at <https://cancerregistry.missouri.edu/>

ICD Revision Number

Enter the ICD-Edition that applies for the date of death:

Code	Definition
0	Patient alive at last contact
1	ICD-10 (date of death on or after 1/1/2000)
9	ICD-9 (date of death before 1/1/2000)

Place of Death, State and Country

Code the appropriate codes for the state and country (not county) of death separately according to codes in your software (STORE [2024 Appendix C](#)).

Follow-up Source

Use the code corresponding to the source from which your date of last contact was obtained, if available.

Information Release Data Items

No Patient Contact Flag and Reporting Facility Restriction Flag are two new central registry data items to capture when patient information is allowed to be released for research or other purposes. This data item is assigned at the patient level.

Citations

SEER Program Coding and Staging Manuals 2025+2026

<https://seer.cancer.gov/tools/codingmanuals/>

Cancer PathChart <https://seer.cancer.gov/cancerpathchart/search/>

Commission on Cancer. Standards for Oncology Registry Entry STORE 2025 Available at:

<https://www.facs.org/media/iiajly3g/store-manual-2026.pdf>

2026 NAACCR Implementation Guidelines and Recommendations

<https://www.naaccr.org/implementation-guidelines/>

NAACCR Version 24, 25, 26 Data Standards and Data Dictionary

<https://www.naaccr.org/>

NAACCR Guidelines for 2026 ICD-O-3.2 Histology Code and Behavior Update 2024 ICD O 3.2 Table 1 Numeric <https://www.naaccr.org/icdo3/>

Amin M., et al (eds): *AJCC Cancer Staging Manual, 8th ed.* American Joint Committee on Cancer, Chicago IL. Springer: 2018. Info and errata at: <https://www.facs.org/quality-programs/cancer-programs/american-joint-committee-on-cancer/>

Hematopoietic and Lymphoid Neoplasm Case Reportability and Coding Manual and the Hematopoietic and Lymphoid Neoplasms Database (Hematopoietic DB). Available at <https://seer.cancer.gov/tools/heme/> (Note: these coding procedures require use of a small number of histology codes not published in ICD-O-3 above).

Johnson CH, Peace S, Adamo P, et al. *The 2007 Multiple Primary and Histology Coding Rules.* National Cancer Institute, Surveillance, Epidemiology and End Results Program. Bethesda, MD: 2007. Available for download at <http://seer.cancer.gov/tools/mphrules/download.html>

Dickie L., Johnson, CH., Adams, S., Negoita, S. (2025). *Solid Tumor Rules.* National Cancer Institute, Rockville, MD 20850. <https://seer.cancer.gov/tools/solidtumor/>

*SEER*Rx – Interactive Drug Database.* National Cancer Institute, Surveillance, Epidemiology and End Results Program, Bethesda MD. <https://seer.cancer.gov/seertools/seerrx/>

Ruhl JL, Callaghan C, Hurlbut, A, Ries LAG, Adamo P, Dickie L, Schussler N (eds.) *Summary Stage 2018 V3.0: Codes and Coding Instructions.* National Cancer Institute, Bethesda, MD, 2018 <https://seer.cancer.gov/tools/ssm/>

Ruhl J, Ward E, Hofferkamp J, et al. (June 2025). *Site-Specific Data Item (SSDI) Manual.* NAACCR, Springfield, IL 62704-4194 <https://apps.naaccr.org/ssdi/list/>

Ruhl J, Ward E, Hofferkamp J, et al. (October 2023). *Grade Manual.* NAACCR, Springfield, IL 62704-4194 https://www.naaccr.org/wp-content/uploads/2023/10/Grade-Coding-Instructions-and-Tables-v3_printed.pdf?v=1718169321

Appendix A

SUPPLEMENTAL INSTRUCTIONS FOR CASES DIAGNOSED PRIOR TO 2018

Grade or Differentiation

These are coding instructions for cases diagnosed 1/1/2014 and forward.

A. Hematopoietic and Lymphoid Neoplasms Cell Indicator (Codes 5, 6, 7, 8, 9)

Cell Indicator (Codes 5, 6, 7, 8) describes the lineage or phenotype of the cell. Codes 5, 6, 7, and 8 are used only for hematopoietic and lymphoid neoplasms. Code 9 indicates cell type not determined, not stated, or not applicable.

Coding Grade for Hematopoietic and Lymphoid Neoplasms

1. Determine the histology based on the current Hematopoietic and Lymphoid Neoplasm Manual
<https://seer.cancer.gov/tools/heme/>
2. Determine the Cell Indicator by applying the “Grade of Tumor Rules” within the current Hematopoietic and Lymphoid Neoplasm Manual
<https://seer.cancer.gov/tools/heme/> to code the grade.

Grade codes for hematopoietic and lymphoid neoplasms

Terminology	Grade Code
T-cell; T-precursor	5
B-cell; Pre-B; B-precursor	6
Null cell; Non T-non B	7
NK cell(natural killer cell)	8
Grade unknown, not stated, or not applicable	9

B. Solid tumors

Grade, Differentiation (Codes 1, 2, 3, 4, 9)

Pathologic examination determines the grade, or degree of differentiation, of the tumor. For these cancers, the grade is a measurement of how closely the tumor cells resemble the parent tissue (organ of origin). Well-differentiated tumor cells closely resemble the tissue from the organ of origin. Poorly differentiated and undifferentiated tumor cells are disorganized and abnormal looking; they bear little (poorly differentiated) or no (undifferentiated) resemblance to the tissue from the organ of origin. These similarities/ differences may be based on pattern (architecture), cytology, nuclear (or nucleolar) features, or a combination of these elements, depending upon the grading system that is used. Some grading systems use only pattern, for example Gleason grading in prostate. Others use only a nuclear grade (usually size, amount of chromatin, degree of irregularity, and mitotic activity). Fuhrman's grade for kidney is based only on nuclear features. Most systems use a combination of patterns and cytologic and nuclear features; for example, Nottingham's for breast combines numbers for pattern, nuclear size and shape, and mitotic activity. The information from this data item is useful for determining prognosis and treatment.

Pathologists describe the tumor grade using three systems or formats:

1. Two levels of similarity; also called a two-grade system
2. Three levels of similarity; also called a three-grade system (code according to "Coding for solid tumors.")
 - a. Grade I, well
 - b. Grade II, moderately
 - c. Grade III, poorly (undifferentiated carcinoma is usually separated from this system, since "poorly" bears some, albeit little, similarity to the host tissue, while "undifferentiated" has none, e.g., Undifferentiated carcinoma).
3. Four levels of similarity; also called a four-grade system. The four-grade system describes the tumor as
 - a. Grade I; also called well-differentiated
 - b. Grade II; also called moderately differentiated
 - c. Grade III; also called poorly differentiated
 - d. Grade IV; also called undifferentiated or anaplastic

Breast and prostate grades may convert differently than other sites. These exceptions are noted in "Coding for Solid Tumors," #7-8 below.

Coding for Solid Tumors

1. Systemic treatment and radiation can alter a tumor's grade. Therefore, it is important to code grade based on information prior to neoadjuvant therapy even if grade is unknown.
2. Code the grade from the primary tumor only.
 - a. Do NOT code grade based on metastatic tumor or recurrence. In the rare instance that tumor tissue extends contiguously to an adjacent site and tissue from the primary site is not available, code grade from the contiguous site.
 - b. If primary site is unknown, code grade to 9.
3. Code the grade shown below (6th digit) for specific histologic terms that imply a grade.

Carcinoma, undifferentiated (8020/34)

Carcinoma, anaplastic (8021/34)

Follicular adenocarcinoma, well differentiated (8331/31)

Thymic carcinoma, well differentiated (8585/31)

Sertoli-Leydig cell tumor, poorly differentiated (8631/33)

Sertoli-Leydig cell tumor, poorly differentiated with heterologous elements

(8634/33)
 Undifferentiated sarcoma (8805/34)
 Liposarcoma, well differentiated (8851/31)
 Seminoma, anaplastic (9062/34)
 Malignant teratoma, undifferentiated (9082/34)
 Malignant teratoma, intermediate type (9083/32)
 Intraosseous osteosarcoma, well differentiated (9187/31)
 Astrocytoma, anaplastic (9401/34)
 Oligodendrolioma, anaplastic (9451/34)
 Retinoblastoma, differentiate (9511/31)
 Retinoblastoma, undifferentiated (9512/34)

4. In situ and/or combined in situ/invasive components:
 - a. If a grade is given for an in-situ tumor, code it. Do NOT code grade for dysplasia such as high-grade dysplasia.
 - b. If there are both in situ and invasive components, code only the grade for the invasive portion even if its grade is unknown.
5. If there is more than one grade, code the highest grade within the applicable system. Code the highest grade even if it is only a focus. Code grade in the following priority order using the first applicable system:
 - a. special grade systems for the sites listed in Coding for Solid Tumors #6
 - b. differentiation: use Coding for Solid Tumors #7: 2-, 3-, or 4- grade system
 - c. nuclear grade: use Coding for Solid Tumors #7: 2-, 3-, or 4- grade system
 - d. If it isn't clear whether it is a differentiation or nuclear grade and a 2-, 3-, or 4- grade system was used, code it.
 - e. Terminology (use Coding for Solid Tumors #8)
6. Use the information from the special grade systems first. If no special grade can be coded, continue with Coding for Solid Tumors #7-9.

Special grade systems for solid tumors

Grade information based on CS Site-specific factors for breast, prostate, heart, mediastinum, peritoneum, retroperitoneum, soft tissue, and kidney parenchyma is used to code grade. See Special Grade System Rules section below for details on how to use this information to code grade. Do not use these tables to code grade for any other groups including WHO (CNS tumors), WHO/ISUP (bladder, renal pelvis), or FIGO (female gynecologic sites) grades

CS Schema	Special grade system
Breast	Nottingham or Bloom-Richardson (BR) Score/Grade
Prostate	Gleason's Score on Needle Core Biopsy/Transurethral Resection of (TURP) (SSF 8)
Prostate	Gleason's Score on Prostatectomy/Autopsy (SSF 10)
Heart, mediastinum	Grade for Sarcomas
Peritoneum	Grade for Sarcomas (SSF 1)
Retroperitoneum	Grade for Sarcomas (SSF 1)
SoftTissue	Grade for Sarcomas (SSF 1)
Kidney Parenchyma	Fuhrman Nuclear Grade

7. Use the Two-, Three- or Four-grade system information.

- Two-grade system

Term	Description	Grade Code	Exception for Breast and Prostate Grade Code
1/2, I/II	Low grade	2	1
2/2, II/II	High grade	4	3

In transitional cell carcinoma for bladder, the terminology high grade TCC and low grade TCC are coded in the two-grade system.

- Three-grade system

Term	Description	Grade Code	Exception for Breast and Prostate Grade Code
1/3	Low grade	2	1
2/3	Intermediate grade	3	2
3/3	High grade	4	3

- Four-grade system: Any four-grade system including Edmonson and Steinergrade for liver.

Term	Description	Grade Code Exception for Breast and Prostate Grade Code
1/4	Grade I; Well differentiated	1
2/4	Grade II; Moderately differentiated	2
3/4	Grade III; Poorly differentiated	3
4/4	Grade IV; Undifferentiated	4

8. Terminology: use the 'Description' column or the 'Grade' column to code grade. Breast & Prostate use the same grade code with a few noted exceptions.

Description	Grade	Assign Grade code	Exception for Breast and Prostate Grade Code
Differentiated, NOS	I	1	
Well differentiated	I	1	
Only stated as "Grade 1"	I	1	
Fairly well differentiated	II	2	
Intermediate differentiation	II	2	
Low grade	I-II	2	1
Mid differentiated	II	2	
Moderately Differentiated	II	2	
Moderately Well Differentiated	II	2	
Partially Differentiated	II	2	
Partially Well Differentiated	I-II	2	1
Relatively or Generally Well Differentiated	II	2	
Only Stated as "Grade II"	II	2	
Medium Grade, Intermediate Grade	II-III	3	2
Moderately Poorly Differentiated	III	3	
Moderately Undifferentiated	III	3	
Poorly Undifferentiated	III	3	
Relatively Poorly Differentiated	III	3	
Relatively Undifferentiated	III	3	
Slightly Differentiated	III	3	
Dedifferentiated	III	3	
Only Stated as "Grade III"	III	3	
High Grade	III-IV	4	3
Undifferentiated, Anaplastic, Not differentiated	III-IV	4	
Only Stated as "Grade IV"	IV	4	
Non-High Grade		9	

9. If no description fits or grade is unknown prior to neoadjuvant therapy, code as a 9(unknown).

C. Special Grade Systems Rules

Breast (site: breast excluding lymphomas)

Use Bloom Richardson (BR) or Nottingham score/grade to code grade. Use the description in the table below to determine grade.

BR could also be referred to as: Bloom-Richardson, modified Bloom-Richardson, BR, BR grading, Scarff-Bloom-Richardson, SBR grading, Elston-Ellis modification of Bloom-Richardson score, Nottingham modification of Bloom-Richardson score, Nottingham modification of Scarff-Bloom-Richardson, Nottingham-Tenovus grade, or Nottingham grade.

Code the tumor grade using the following priority order

- BR scores 3-9
- BR grade (low, intermediate, high)

BR score may be expressed as a range, 3-9. The score is based on three morphologic features: degree of tubule formation/histologic grade, mitotic activity, nuclear pleomorphism/nuclear grade of tumor cells. If a report uses words such as low, intermediate, or high rather than numbers, use the table below to code grade.

If only a grade of 1 through 4 is given with no information on the score and it is unclear if it is a Nottingham or BR Grade, do not use the table below. Continue with the next priority according to “Coding for Solid Tumors” #7 above.

Code the highest score if multiple scores are reported (exclude scores from tests after neo-adjuvant therapy began). Examples: different scores may be reported on multiple pathology reports for the same primary cancer; different scores may be reported for multiple tumors assigned to the same primary cancer.

CS Site-Specific Factor 7
Nottingham or Bloom-Richardson (BR) Score/Grade

Description	CS code	Grade Code
Score of 3	030	1
Score of 4	040	1
Score of 5	050	1
Score of 6	060	2
Score of 7	070	2
Score of 8	080	3
Score of 9	090	3
Low grade, Bloom-Richardson (BR) grade 1, score not given	110	1
Medium grade, Bloom-Richardson (BR) grade 2, score not given	120	2
High grade, Bloom-Richardson (BR) grade 3, score not given	130	3

Kidney Parenchyma (Site: kidney parenchyma excluding lymphomas; CS schema: Kidney Parenchyma): Fuhrman Nuclear Grade

The Fuhrman Nuclear Grade should be used to code grade for kidney parenchyma only. Do not use for kidney renal pelvis. Use the description in the table to determine grade. Fuhrman nuclear grade is a four-grade system based on nuclear diameter and shape, the prominence of nucleoli, and the presence of chromatin clumping in the highest grade.

Description	CS code	Grade Code
Grade 1	010	1
Grade 2	020	2
Grade 3	030	3
Grade 4	040	4

Soft Tissue (sites excluding lymphomas: soft tissue, heart, mediastinum, peritoneum, and retroperitoneum; for CS users: Soft Tissue, Heart Mediastinum, Peritoneum, Retroperitoneum schemas): Grade for Sarcomas

The Grade for Sarcomas should be used to code grade based on CSv2 SSF 1 as stated below. If your registry does not collect this SSF, use the description in the table to determine grade. If you collect this SSF, the information could be automatically converted into the grade field if it is coded 010-200. The grading system of the French Federation of Cancer Centers Sarcoma Group (FNCLCC) is the preferred system.

Record the grade from any three-grade sarcoma grading system the pathologist uses. For terms such as "well differentiated" or "poorly differentiated," go to Coding for Solid Tumors #8.

In some cases, especially for needle biopsies, grade may be specified only as "low grade" or "high grade." The numeric grade takes precedence over "low grade" or "high grade."

Description	CS code	Grade Code
Specified as Grade 1 [of 3]	010	2
Specified as Grade 2 [of 3]	020	3
Specified as Grade 3 [of 3]	030	4
Grade stated as low grade, NOS	100	2
Grade stated as high grade, NOS	200	4

Prostate (site: prostate excluding lymphomas; CS schema: prostate)

Use the highest Gleason score from the biopsy/TURP or prostatectomy/autopsy. Use a known value over an unknown value. Exclude results from tests performed after neoadjuvant therapy began. This information is collected in CSv2 SSF 8 (Gleason score from biopsy/TURP) and SSF 10 (Gleason score from prostatectomy/autopsy) as stated below. Use the table below to determine grade even if your registry does not collect these SSFs. If you collect these SSFs, the information could be converted into the grade field automatically.

Usually, prostate cancers are graded using Gleason score or pattern. Gleason grading for prostate primaries is based on a 5-component system (5 histologic patterns). Prostatic cancer generally shows two main histologic patterns. The primary pattern, the pattern occupying greater than 50% of the cancer, is usually indicated by the first number of the Gleason grade, and the secondary pattern is usually indicated by the second number. These two numbers are added together to create a pattern score, ranging from 2 to 10. If there are two numbers, assume that they refer to two patterns (the first number being the primary pattern and the second number the secondary pattern), and sum them to obtain the score. If only one number is given on a particular test and it is less than or equal to 5 and not specified as a score, do not use the information because it could refer to either a score or a grade. If only one number is given and it is greater than 5, assume that it is a score and use it. If the pathology report specifies a specific number out of a total of 10, the first number given is the score. Example: The pathology report says Gleason 3/10. The Gleason score would be 3.

Historic Perspective

Gleason Score	CS code	Grade Code	AJCC 7th	SEER 2003-2013	ACC 6th	SEER prior 2003
2	002	1	G1	G1	G1	G1
3	003	1	G1	G1	G1	G1
4	004	1	G1	G1	G1	G1
5	005	1	G1	G2	G2	G2
6	006	1	G1	G2	G2	G2
7	007	2	G2	G3	G3	G2
8	008	3	G3	G3	G3	G3
9	009	3	G3	G3	G3	G3
10	010	3	G3	G3	G3	G3

Historical perspective on long term trends in prostate grade: The relationship of Gleason score to grade changed for 1/1/2014+ diagnoses in order to have the grade field in sync with AJCC 7th ed. Analysis of prostate grade before 2014 based solely on the grade field is not recommended. In Collaborative Stage (CS), Gleason score was originally coded in CSv1 in one field (SSF 6) and then it was split into two fields in CSv2 based on the tissue

used for the test: needle biopsy/TURP (SSF 8) and prostatectomy/autopsy (SSF 10). For trends using data back to 2004, if one collected the various CS Gleason scores, one could design a recode to have the same criteria as the data collected 2014+. The original grade field would NOT be changed, but for analyses this recode could be based on the CS SSFs and the original grade code.

Computer algorithm to derive grade for prostate based on SSF 8 and SSF 10: if SSF 8 or SSF 10 has known values for Gleason's, the information could be used to automatically derive the grade field. *Grade cannot be automatically calculated based on SSF * and SSF 10; Proceed to Step 7.

SSF 8 Code	SSF 10 002	SSF 10 003	SSF 10 004	SSF 10 005	SSF 10 006	SSF 10 007	SSF 10 008	SSF 10 009	SSF 10 010	SSF 10 988	SSF 10 998	SSF 10 999
002	1	1	1	1	1	2	3	3	3	*	1	1
003	1	1	1	1	1	2	3	3	3	*	1	1
004	1	1	1	1	1	2	3	3	3	*	1	1
005	1	1	1	1	1	2	3	3	3	*	1	1
006	1	1	1	1	1	2	3	3	3	*	1	1
007	2	2	2	2	2	2	3	3	3	*	2	2
008	3	3	3	3	3	3	3	3	3	*	3	3
009	3	3	3	3	3	3	3	3	3	*	3	3
010	3	3	3	3	3	3	3	3	3	*	3	3
988	*	*	*	*	*	*	*	*	*	*	*	*
998	1	1	1	1	1	2	3	3	3	*	*	*
999	1	1	1	1	1	2	3	3	3	*	*	*

Collaborative Stage

The Collaborative Stage (CS) data collection system is a set of data items that describe how far a cancer has spread from its primary site at the time of diagnosis and how the extent of disease was evaluated. The data items were selected by a task force convened to address the issue of discrepancies in staging guidelines among the three major staging systems used in the U.S. Cancer registries have traditionally collected most of the data items incorporated into the CS system, the use of which should provide a higher degree of compatibility among staging schemes that will expand data-sharing opportunities. Site-specific Factors (SSFs) are incorporated into the staging algorithms when additional information is necessary to derive the SEER Summary Stage, TNM Stage Group, or where the SSF is considered to be of clinical or prognostic importance. Information formerly coded as Tumor Markers and certain supplemental data required for obtaining the derived AJCC stage are coded in SSF fields. (For more complete details, refer to the introduction of the *Collaborative Stage Data Collection System Coding Instructions*, Part I, Section 1: General Instructions.

The Collaborative Stage Data Collection System Version 02.05 (CSv2) is required for use with cases diagnosed January 1, 2014, to December 31, 2015. It also applies to older cases entered after conversion to NAACCR version 14.

The CS Version 01 series applies to cases diagnosed January 1, 2004, through December 31, 2009 and abstracted before NAACCR version 12 was implemented. Complete directions are in the *Collaborative Stage Manual and Coding Instructions, Version 01.04.01*. Collaborative stage fields are not to be used for cases diagnosed before January 1, 2004, or after December 31, 2015, except as listed below).

CS Version Original (Formerly CS Version Input Original)

This item indicates the number of the version initially used to code Collaborative Stage (CS) fields. The CS version number is returned as part of the output of the CS algorithm. Over time, the input codes and instructions for CS items may change. This item identifies the correct interpretation of input CS items. This item is auto coded by the software provider.

Codes

CS Version Input Original is a 6-digit code. The first two digits represent the major version number; the second two digits represent minor version changes; and the last two digits represent even less significant changes, such as corrections of typographical errors that do not affect coding or derivation of results (e.g.,010100).

CS Version Derived (Formerly CS Version Latest)

This data item is auto coded by the software provider for cases diagnosed 2004 through 2015.

Codes

CS Version Derived is a 6-digit code. The first two digits represent the major version number; the second two digits represent minor version changes; and the last two digits represent

even less significant changes, such as corrections of typographical errors that do not affect coding or derivation of results (e.g., 010100).

CS Version Input Current (Formerly CS Version 1st)

This item indicates the version of CS input fields after they have been updated or recoded. This data item is recorded the first time the CS input fields are entered and should be updated each time the CS input fields are modified. Over time, the input codes and instructions for CS items may change. This item identifies the correct interpretation of input CS items. This item is auto coded by the software provider.

Codes

CS Version Input Current is a 6-digit code. The first two digits represent the major version number; the second two digits represent minor version changes; and the last two digits represent even less significant changes, such as corrections of typographical errors that do not affect coding or derivation of results (e.g., 010100).

CS Site-Specific Factors

Identifies additional information needed to generate stage or prognostic factors that have an effect on stage or survival. See Collaborative Stage Manual and Coding Instructions for more information. Refer to MCR Required Data Elements List <https://cancerregistry.missouri.edu/reporting/cancer-reporting-hospital/> for the particular primary sites and factors that are to be sent to MCR. Note that since 2011 there is an additional tab on the spreadsheet that lists factors which are required “as available.” An additional tab in pink has been added for 2016 showing the reduced number of required factors.

AJCC TNM Stage

MCR requires that AJCC TNM staging be assigned for all cases diagnosed in 2016 and forward. AJCC developed its staging system for evaluating trends in the treatment and control of cancer. This staging is used by physicians to estimate prognosis, to plan treatment, to evaluate new types of therapy, to analyze outcome, to design follow-up strategies, and to assess early detection results. The fields below are required and should be coded as documented by the physician. If the managing physician has not recorded this information, registrars will code this item based on the best available information.

See the *AJCC Cancer Staging System*, current edition for site-specific categories for the TNM elements and stage groups.

See the *2016 FORDS* manual for specific instructions for coding. <https://www.facs.org/~/media/files/quality%20programs/cancer/ncdb/fords%202016.ashx>

Beginning in 2016, the prefixes of ‘c’ and ‘p’ have been added to existing valid clinical and

pathologic T, N, and M categories respectively. The new categories enable registrars to comply with AJCC clinical and pathologic staging/classification timeframe rules while abstracting. The new categories will be used for cases of all diagnosis years abstracted using NAACCR version 16-compliant (and later) software. Please note that not all possible categories were added in 2016, only those addressing prominent issues. Additional T, N, and M categories are added, and use of existing categories will be expanded with the implementation of the AJCC Cancer Staging System.

TNM Clin T

Detailed site-specific codes for the clinical tumor (T) as defined by AJCC. It identifies the tumor size and/or extension known prior to the start of any therapy.

Codes (in addition to those published in the AJCC Cancer Staging System)

88 Not applicable, no code assigned for this case in the current AJCC Staging System

This field is left blank if no information at all is available to code this item.

TNM Clin N

Detailed site-specific codes for the clinical nodes (N) as defined by AJCC. It identifies the absence/presence and extent of regional lymph node metastasis of the tumor known prior to the start of any therapy.

Codes (in addition to those published in the AJCC Cancer Staging System)

88 Not applicable, no code assigned for this case in the current AJCC Staging System

This field is left blank if no information at all is available to code this item.

TNM Clin M

Detailed site-specific codes for the clinical metastases (M) as defined by AJCC. It identifies the absence or presence of distant metastasis of the tumor known prior to the start of any therapy.

Codes (in addition to those published in the AJCC Cancer Staging System)

88 Not applicable, no code assigned for this case in the current AJCC Staging System

This field is left blank if no information at all is available to code this item.

TNM Clin Stage Group

Detailed site-specific codes for the clinical stage group as defined by AJCC based on the T, N, and M data items known prior to the start of any therapy.

Codes (in addition to those published in the *AJCC Cancer Staging System*)

88	Not applicable, no code assigned for this case in the current AJCC Staging System
99	Unknown, unstaged

TNM Clin Descriptor

Identifies the AJCC clinical stage (prefix/suffix) descriptor of the tumor prior to the start of any therapy. AJCC stage descriptors identify special cases that need separate data analysis. The descriptors are adjuncts to and do not change the stage group.

0	None
1	E (Extranodal, lymphomas only)
2	S (Spleen, lymphomas only)
3	M (Multiple primary tumors in a single site)
5	E & S (Extranodal and spleen, lymphomas only)
9	Unknown, not stated in patient record

TNM Path T

Detailed site-specific codes for the pathologic tumor (T) as defined by AJCC. It identifies the tumor size and/or extension following the completion of surgical therapy.

Codes (in addition to those published in the *AJCC Cancer Staging System*)

88	Not applicable, no code assigned for this case in the current AJCC Staging System
----	---

This field is left blank if no information at all is available to code this item.

TNM Path N

Detailed site-specific codes for the pathologic nodes (N) as defined by AJCC. It identifies the absence/presence and extent of regional lymph node metastasis of the tumor following the completion of surgical therapy.

Codes (in addition to those published in the *AJCC Cancer Staging System*)

88	Not applicable, no code assigned for this case in the current AJCC Staging System
----	---

This field is left blank if no information at all is available to code this item.

TNM Path M

Detailed site-specific codes for the pathologic metastases (M) as defined by AJCC. It identifies the absence or presence of distant metastasis of the tumor following the completion of surgical therapy.

Codes (in addition to those published in the *AJCC Cancer Staging System*)

88 Not applicable, no code assigned for this case in the current AJCC Staging System

This field is left blank if no information at all is available to code this item.

TNM Path Stage Group

Detailed site-specific codes for the pathological stage group as defined by AJCC based on the T, N, and M items known following the completion of surgical therapy.

Codes (in addition to those published in the *AJCC Cancer Staging System*)

88 Not applicable, no code assigned for this case in the current AJCC Staging System

99 Unknown, unstaged

TNM Path Descriptor

Identifies the AJCC pathologic stage (prefix/suffix) descriptor known following the completion of surgical therapy. AJCC stage descriptors identify special cases that need separate data analysis. The descriptors are adjuncts to and do not change the stage group.

Codes

- 0 None
- 1 E (Extra nodal, lymphomas only)
- 2 S (Spleen, lymphomas only)
- 3 M (Multiple primary tumors in a single site)
- 4 Y (Classification during or after initial multimodality therapy) - pathological staging only
- 5 E & S (Extra nodal and spleen, lymphomas only)
- 6 M & Y (Multiple primary tumors and initial multimodality therapy)
- 9 Unknown, not stated in patient record

TNM Edition Number

A code that indicates the edition of the AJCC manual used to stage the case. This applies to the manually coded AJCC fields. It does not apply to the Derived AJCC T, N, M and AJCC Stage Group fields [2940, 2960, 2980, and 3000].

Codes

- 00 Not staged (cases that have AJCC staging scheme and staging was not done)
- 01 First Edition
- 02 Second Edition (published 1983)
- 03 Third Edition (published 1988)
- 04 Fourth Edition (published 1992), recommended for use for cases diagnosed 1993-1997
05 Fifth Edition (published 1997), recommended for use for cases diagnosed 1998-2002
06 Sixth Edition (published 2002), recommended for use for cases diagnosed 2003-2009
07 Seventh Edition (published 2009), recommended for use with cases diagnosed 2010+
- 88 Not applicable (cases that do not have an AJCC staging schema)
- 99 Edition Unknown

SUPPLEMENTAL INSTRUCTIONS FOR CASES DIAGNOSED PRIOR TO 2010

Primary Site for Solid Tumors Diagnosed Prior to 2007

These rules were replaced by the Multiple Primary and Histology Coding Rules which were implemented for cases diagnosed January 1, 2007, and after. Enter the case into the database as a single or multiple primaries **as documented by the physician**. If physician documentation is unavailable, then use the following guidelines: Primary Site, Laterality, Morphology, and Timing are each considered.

- ◆ Use the instructions below under “**Site Differences**” and “**Laterality Differences**” to decide whether the tumor(s) is one site or multiple sites
- ◆ Follow the instructions below under “**Morphology Differences**” to decide whether tumors (other than lymphomas or leukemias) represent a single histology or mixed/ multiple histologies
- ◆ Follow the instructions below under “**Timing Differences**” to decide if one or more primaries are involved

Site Differences

Primary Site and Laterality are used together to determine whether two lesions are considered one or two tumors based on anatomic location. The ICD-O-2 and ICD-O-3 topography codes each have four characters: the letter C followed by three digits (e.g., C61.9). The fourth character represents a subcategory. In general, the first three characters represent an individual organ and the fourth character is a subsite or a portion of that organ. However, in some instances two or more three-character ICD-O-3 topography codes apply to a single organ. The rules for distinguishing single from multiple sites address (1) whether organs or subsites of organs represent unique tumors, (2) whether a unique organ is represented

by one three-character ICD-O-3 topography code or more, and (3) whether a paired site is involved.

Note: Site organs are represented by a single three-character ICD-O-3 code. A difference in the **third** character of the ICD-O-3 topography code designates a separate site for all primary sites other than those listed below

Subsites that Represent Unique Primaries

A difference in the fourth or final character of the ICD-O-3 topography code designates a separate site for the following site groups **only**, with the exception of NOS (C_._9) if there is a specific four-digit site code within the same category.

- ◆ Colon (C18.0–C18.9) except polyps involving multiple segments (see “Colon and Rectum Polyps” following)
- ◆ Anus/anal canal (C21.0–C21.8)
- ◆ Pleura (visceral, parietal, NOS) (C38.4)
- ◆ Bone (C40.0–C41.9)
- ◆ Melanoma of the skin (C44.0–C44.9)
- ◆ Peripheral nerves/autonomic nervous system (C47.0–C47.9)
- ◆ Connective tissue (C49.0–C49.9)
- ◆ **Non-malignant** meninges (C70.0–C70.9 with Behavior Code /0 or /1)
- ◆ **Non-malignant** brain (C71.0–C71.8 with Behavior Code /0 or /1)
- ◆ **Non-malignant** spinal cord, cranial nerves, and other parts of central nervous system (C72.0–C72.8 with Behavior Code /0 or /1)

Colon and Rectum Polyps

- ◆ Simultaneous lesions and polyps in the same segment of the colon are a single primary. Polyps may be present in more than one segment of the colon. If the diagnosis reads “adenocarcinoma in multiple polyps,” it is one primary, Colon, NOS (C18.9)
- ◆ Familial polyposis is a genetic disease characterized by polyps that increase in numbers and may cover the mucosal surface of the colon. The benign disease usually develops into adenocarcinoma in adenomatous polyposis coli or adenocarcinoma in multiple adenomatous polyps
- ◆ Patients with the histologies “adenocarcinoma in adenomatous polyposis coli” (8220/3) and “adenocarcinoma in multiple adenomatous polyps” (8221/3) have a different disease process than those patients with typical adenocarcinomas of the colon or colon polyps. If multiple segments of the colon, or the colon and rectosigmoid, or the colon, rectosigmoid and rectum are involved with adenocarcinoma in adenomatous polyposis coli or adenocarcinoma in multiple adenomatous polyps, it is a single primary. Code the primary site to Colon, NOS (C18.9)

Note: Site organs may be represented by more than one three-character ICD-O-3 topography code

Primary Based on Grouped Sites

The following groups of three-character ICD-O-3 topography codes refer to single organs. Lesions within any combination of each group are considered to be the same primary.

- ◆ C01 Base of tongue; C02 Other and unspecified parts of tongue
- ◆ C05 Palate; C06 Other and unspecified parts of mouth
- ◆ C07 Parotid gland; C08 Other and unspecified major salivary glands
- ◆ C09 Tonsil; C10 Oropharynx
- ◆ C12 Pyriform sinus; C13 Hypopharynx
- ◆ C23 Gallbladder; C24 Other and unspecified parts of biliary tract
- ◆ C30 Nasal cavity and middle ear; C31 Accessory sinuses
- ◆ C33 Trachea; C34 Bronchus and lung
- ◆ C37 Thymus; C38.0 Heart; C38.1–3 Mediastinum; C38.8 Overlapping lesion of heart, mediastinum, and pleura
- ◆ C51 Vulva; C52 Vagina; C57.7 Other specified female genital organs; C57.8–9 Unspecified female genital organs
- ◆ C56 Ovary; C57.0 Fallopian tube; C57.1 Broad ligament; C57.2 Round ligament; C57.3 Parametrium; C57.4 Uterine adnexa
- ◆ C60 Penis; C63 Other and unspecified male genital organs
- ◆ C64 Kidney; C65 Renal pelvis; C66 Ureter; C68 Other and unspecified urinary organs
- ◆ C74 Adrenal gland; C75 Other endocrine glands and related structures

Laterality Differences

- ◆ Each side of a paired organ is a **separate** site **unless** a physician determines one side is metastatic from the other

Exception: The following are always single primaries—

- Simultaneous bilateral involvement of the ovaries with a single histology
- Simultaneous bilateral retinoblastomas

Exception: Disregard laterality for determination of single or multiple primaries for **malignant** (behavior of /2 or /3) tumors of the meninges (C70._), brain (C71._), spinal cord, cranial nerves, and other parts of central nervous system (C72._)

- ◆ Both sides of a paired organ may be simultaneously involved with tumors. If the tumors are of the same histology, the patient may have one or two primaries. Consult the managing physician or the registry advisor
- ◆ If there are two primaries, complete two abstracts. Code each primary to the appropriate laterality and stage
- ◆ If there is one primary, prepare one abstract and code laterality to the side of origin
- ◆ If there is a single primary and the side of origin cannot be identified, prepare a single abstract and code laterality as 4 - bilateral involvement, side of origin unknown; stated to be a single primary

Histology Differences

The first four characters are sometimes referred to as the “histology code.” Multiple terms may describe a single histology. Refer to the ICD-O-3 histology code to determine whether two or more lesions represent the same tumor histologically.

- ◆ If the first three digits of the ICD-O-3 histology codes are identical, then the histology is the **same**
- ◆ A single lesion with mixed histologic types is **one** primary
- ◆ A difference in the first three digits of the ICD-O-3 histology code indicates a **different** histologic type

Exception: If one malignancy is stated to be carcinoma, NOS, adenocarcinoma, NOS, or sarcoma, NOS, and the second lesion is a more specific term, such as large cell carcinoma, mucinous adenocarcinoma, or spindle cell sarcoma, consider this to be a **single** histology

Exception: For lymphatic and hematopoietic disease, use Appendix A in *FORDS* or ‘Definitions of Single and Subsequent Primaries for Hematologic Malignancies’ which can be found on the MCR Website under Abstracting Resources to determine which histologies represent single or multiple primaries. **NOTE: The ‘Definitions of Single and Subsequent Primaries for Hematologic Malignancies’ is only a guide. A physician diagnosis supersedes the guide**

Exception: Consider the following as a **single** histology, even though the first three digits of the ICD-O-3 morphology codes differ. Code its histology according to the rules for mixed histologies.

Transitional cell or papillary carcinoma (8120–8131) of the bladder (C67._)

Ductal (8500) and lobular (8520) adenocarcinoma of the breast (C50._)

Use the following for the determination of single or multiple primaries of nonmalignant (behavior /0 or /1) primary intracranial and central nervous system tumors (C70.0, C72.9, C75.1-C75.3).

- ◆ Two histologies appearing in the same grouping in the following table are the **same**; code the more specific histology
- ◆ Histology in the table and histology not in the table that has the same first three digits are the **same**; code its histology according to the rules for mixed histologies
- ◆ Two histologies not appearing in the table but having the same first three digits are the **same**; code its histology according to the rules for mixed histologies
- ◆ Multiple lesions with the **same** histology occurring in different sites are **separate** primaries **unless** a physician says they are metastatic
- ◆ Multiple lesions with **different** histologies occurring in different sites are **separate** primaries **unless** a physician states otherwise

Timing Differences

Lesions occurring within two months of each other are “simultaneous.”

- ◆ Two malignancies of the same histology (following the rules under “Histology Differences”) which occur in the same site (following the rules under “Site Differences”, including those for laterality for paired sites) simultaneously (i.e., within two months of each other), is a **single primary**
- ◆ **Exception:** Each occurrence of melanoma of the skin is a new or separate primary unless a physician states otherwise
- ◆ Multiple lesions with different histologies in a single site are **separate primaries**, whether they occur simultaneously or at different times
- ◆ If two malignancies of the same histology (following the rules under “Histology Differences”) and in the same site (following the rules under “Site Differences,” including rules for laterality for paired sites) are identified **more** than two months apart, then there are **two primaries**. Complete a separate abstract for each one
- ◆ If the tumor was originally diagnosed as *in situ* and recurs as invasive or metastatic tumor, the “recurrence” must be reported as a new case

Exception: The following are recurrences of the original disease without time limits-

Exception: Non-malignant (behavior = /0 or /1) primary intracranial and central nervous system tumors (C70.0–C72.9, C75.1–C75.3) within a single site (following the rules under “Site Differences”, including rules for laterality for paired sites) having the same histology (following the rules under “Histology Differences”)

Exception: Bladder primaries with morphology codes 8120–8130

Exception: Invasive adenocarcinoma of the prostate, site code C61.9

Exception: Kaposi sarcoma (9140) of any site

Note: Consider Kaposi sarcoma as one primary site. Refer to “Primary Site” for coding rules

Primary Site for Lymphomas Diagnosed Prior to 2010

Use the following guidelines to determine the topography codes for lymphomas.

- ◆ Lymphomas originating in the lymph nodes are coded C77._
- ◆ If a lymphoma originates in a single organ, code the primary site to that organ
- ◆ **Example:** Patient diagnosed with lymphoma of the ileum. Primary site code would be **ileum (C17.2)**

- ◆ If disease is prevalent in a single organ and the lymph nodes, but the physician states the cancer originated in the extra-nodal site, code the primary site to the **organ**
- ◆ If there is disease in a single organ and nodes, but the physician does not state extra-nodal site, **code to the site of lymph nodes involved**
- ◆ When there are multiple lymph node sites involved, **code C77.8**
- ◆ If no site is specified, use **code C77.9**, lymph nodes NOS
- ◆ If origin of a lymphoma is unknown but is suggested by the histology code in ICD-O-3, code to the suggested site. Example: 9689/3 Splenic marginal zone B-cell lymphoma (**C42.2**)
- ◆ If an extra nodal site is suspected but is unknown, code to **C80.9**
- ◆ Do not code the site of the biopsy when multiple sites are involved
- ◆ When coding a disseminated lymphoma and the originating site is unknown, code to unknown primary site - C80.9

Example: Malignant pleural effusion positive for malignant lymphoma and no tissue masses identified

- ◆ Code C77.9 when a mass is identified as “retroperitoneal,” “inguinal,” “mediastinal,” or “mesentery” and there is no definitive information to indicate tissue(s) involved

ICD-O-3 Rule D provides additional information on coding the primary site for lymphomas.

Histologic Type

Tumors Diagnosed Prior to 2007

- ◆ ICD-O-3 identifies the morphology codes with an “M” preceding the code number. Do not record the “M”
- ◆ Record histology using the ICD-O-3 codes in the Numeric Lists/Morphology section (ICD-O-3, pp. 69–104) and in the Alphabetic Index (ICD-O-3, pp. 105–218)
- ◆ Follow the coding rules outlined on pages 20 through 40 of ICD-O-3
- ◆ Review all pathology reports related to the case
- ◆ Code the **final** pathologic diagnosis for solid tumors

Exception: If the final diagnosis is “Not Otherwise Specified” (carcinoma, NOS; melanoma, NOS; sarcoma, NOS; lymphoma, NOS; or malignant tumor, NOS), then code the histology from the microscopic description or comment if it identifies a more specific histologic type (higher ICD-O-3 code) such as adenocarcinoma, amelanotic melanoma, spindle cell sarcoma

- ◆ The codes for cancer, NOS (8000) and carcinoma, NOS (8010) are **not** interchangeable. If the physician says that the patient has carcinoma, then code carcinoma, NOS (8010)
- ◆ Lymphomas may be classified by the Rappaport classification or the Working Formulation. If both systems are used to classify the disease, then the term used to describe the lymphoma may differ. The Working Formulation term should take precedence (ICD-O-3, pp. 13–18)

Examples:

Code	Label	Definition
8140	Adenocarcinoma	Final pathologic diagnosis is carcinoma, NOS (8010) of the prostate. Microscopic diagnosis specifies adenocarcinoma (8140) of the prostate
9680	Diffuse large B-cell lymphoma	Diffuse large B-cell lymphoma, per the WHO Classification of Hematopoietic and Lymphoid Neoplasms

SEER Summary Stage 2000

For cases diagnosed January 1, 2001, through December 31, 2003, use Summary Staging Manual 2000.

Stage	Description
0	In-situ; non-invasive; intraepithelial; non-infiltrating; limited to the epithelium; intraepidermal (skin). Other parts CNS
1	Localized; tumor confined to organ of origin; microinvasion; no evidence of metastasis (Stage I – lymphoma). Localized brain, cerebral meninges, CNS
2	Regional by direct extension; tumor extends directly beyond the primary site into surrounding (regional) organs or tissues
3	Regional to lymph nodes; tumor extends beyond the organ of origin (primary site) into the regional lymph nodes
4	Regional to both 2 & 3 ; tumor extends beyond primary site by direct extension into regional lymph nodes AND adjacent tissues
5	Regional, NOS; tumor documented as regional and no other information is available (Stage II—lymphoma) Regional brain, CM, CNS
7	Distant metastasis; widely disseminated; systemic disease; tumor has spread from primary site to remote areas of the body, through the blood stream or lymph system (Stage III or IV –lymphoma). Brain, CM, CNS
9	Unstaged; unknown, unspecified—use for unknown primaries and those cases where adequate staging information is NOT available

Note: Pay particular attention to the site-specific schemes for primaries with subsites and the notes on the last page of many schemes. Do not rely on memory

Note: A comparison of cases diagnosed before January 1, 2001 and cases diagnosed on or after January 1, 2001, may not be possible due to changes in staging guidelines

Example: For lung, a separate tumor nodule in a different lobe is considered **1-Localized** in the SEER Staging Guide, 1986 Reprint, and **7-Distant** in the SEER Summary Staging Manual 2000

SEER Summary Stage 1977

For cases diagnosed prior to January 1, 2001, use the *Summary Staging Guide*, 1986 reprint. Please refer to it for specific coding instructions for ALL sites.