Solid Tumor Rules

Effective with Cases Diagnosed 1/1/2018 and Forward

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In Appreciation
NCI SEER gratefully acknowledges the dedicated work of Dr. Charles Platz who has been with the project since the inception of the 2007 Multiple Primary and Histology Coding Rules. We appreciate the support he continues to provide for the Solid Tumor Rules. The quality of the Solid Tumor Rules directly relates to his commitment.

NCI SEER would also like to acknowledge the Solid Tumor Work Group who provided input on the manual. Their contributions are greatly appreciated.

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The 2007 Multiple Primary and Histology (MPH) Coding Rules have been revised and are now referred to as 2018 Solid Tumor Rules. The 2007 Multiple Primary and Histology Coding Rules were developed to promote consistent and standardized coding by cancer registrars and the 2018 Solid Tumor Rules continue to provide coding instructions to ensure accurate data collection. It is important to note that eight site specific coding modules have been updated for 2018. These site groups are: Benign Brain, Malignant CNS, Breast, Colon, Lung, Head & Neck, Kidney, and Urinary. The remaining two site specific coding modules have not been updated for 2018. These site groups are: Cutaneous Melanoma and Other sites.

The primary reference for both the 2007 MPH rules and 2018 Solid Tumor Rules are the WHO Classification of Tumors books (blue books). Since 2007, WHO has continued publishing updates to the WHO Classification of Tumors series. As part of each new edition, subject matter experts review current literature and make recommendations regarding current practices in histology terminology and diagnosis. The College of American Pathologists (CAP) has adopted the new histologic terminology and diagnosis criteria into the site-specific 2018 CAP Protocols. The 2018 Solid Tumors Rules have been revised to reflect current CAP and WHO practices.

As part of the revisions to the 2007 MPH rules, the editors and Solid Tumor Committee reviewed issues and questions NCI SEER received since the implementation of the MPH rules. These questions provided valuable information as to what clarifications were needed in the form of additional rules, tables, examples, and notes.

The Solid Tumor Committee has members who represent all the standard setters including NCI SEER, American College of Surgeons (ACoS), Commission on Cancer (CoC), American Joint Commission on Cancer (AJCC), the Centers for Disease Control and Prevention (CDC), National Program of Cancer Registries (NPCR), North American Association of Central Cancer Registries (NAACCR), the Canadian Cancer Registry (CCR), and central and hospital cancer registries.

Physician guidance by specialty pathologists and clinicians was integral to the review and revision process. Regular consultation with the editors of the WHO Classification of Tumors series and AJCC physicians ensured that the new rules accurately reflect the editors’ intent and purpose.
Solid Tumor Rules 2018
General Instructions
(Excludes lymphoma and leukemia M9590 – M9992)

What You Need to Know About the 2018 Solid Tumor Rules

There are specific instructions preceding each set of histology rules that define terms which may be used to code histology as well as terms which may not be used to code histology. These changes are in accordance with current WHO and CAP guidelines.

Eight site groups have been revised for 2018. The 2018 General Instructions apply ONLY to the revised sites listed below:
- Head & Neck
- Colon (includes rectosigmoid and rectum for cases diagnosed 1/1/2018 forward)
- Lung
- Breast
- Kidney
- Urinary sites
- Non-malignant CNS
- Malignant CNS and Peripheral Nerves

The 2007 Multiple Primary & Histology rules and the 2007 General Instructions are to be used for cases diagnosed 1/1/2007 to 12/31/2020 for the following site groups:
- Cutaneous melanoma
  - Cutaneous melanoma site rules will be revised for 2021 implementation to incorporate information from the new WHO 4th Ed Tumors of Skin scheduled to be released in 2018
- Other Sites
  - Primary sites excluded are:
    - Rectosigmoid and rectum which are included in 2018 Colon rules
    - Peripheral nerves which are included in 2018 Malignant Brain rules
  - Other Sites rules will be revised for 2021 implementation. The Solid Tumor Task Force has identified the need to expand the rules to include GYN, soft tissue, thyroid as well as other site-specific solid tumors
SUBMITTING QUESTIONS
Submit technical questions and suggestions related to this manual to Ask a SEER Registrar on the SEER website. SEER regions may also submit technical questions to NCI SEER inquiry system using the web-based SINQ system. When submitting questions, make sure you select the correct category (2007 MPH rules or 2018 Solid Tumor Rules) AND always include primary site and diagnosis year.

General Equivalent or Equal Terms

These terms can be used interchangeably:

- And; with
  
  Note: “And” and “with” are used as synonyms when describing multiple histologies within a single tumor.
- Adenocarcinoma; glandular carcinoma; carcinoma
- De novo; new tumor; frank (obsolete term)
- Majority; major; predominantly; greater than 50%
- Multicentric; multifocal
- Simultaneous; synchronous; at the same time; prior to first course treatment
- Topography; site code
- Tumor; mass; tumor mass; lesion; neoplasm; nodule
  - The terms tumor, mass, tumor mass, lesion, neoplasm and nodule are not used in a standard manner in clinical diagnoses, scans, or consults. Disregard the terms unless there is a physician’s statement that the term is malignant/cancer
  - These terms are used ONLY to determine multiple primaries
  - Do not use these terms for casefinding or determining reportability
- Type; subtype; variant
The PDFs must be opened in Adobe Reader for complete functionality of content controls. If the PDF document opens in your browser by default, contact your IT department to change the settings for your browser.

The following functions will help you maneuver within site groups.

1. **Navigating between hyperlinks:** When you use a hyperlink to go to another place in the rules, use the PREVIOUS VIEW button to return to your starting point. For example, a hyperlink in the Equivalent Terms and Definitions sends you to the *Histology Rules*. When you are finished with the histology rules, click the PREVIOUS VIEW button to return to the location of the hyperlink in the Equivalent Terms and Definitions.
   
   **Note 1:** To enable this button, right click on the toolbar, select Page Navigation and click Previous View. A left-pointing arrow will appear on the toolbar.

   **Note 2:** If you scroll through multiple pages after using a hyperlink, the Previous View button returns to the most recently viewed page. This means that you must click the Previous View button **multiple times** to return to your starting point.

2. **Bookmarks:** In the left panel, use the bookmarks to quickly jump between sections and subsections.
   
   A. Click the [+] to expand a bookmark level, showing all of the sub-levels.
   B. Click the [-] to collapse a bookmark level, showing a main level.

3. **Footer links:** Alternatively, there are links in the footer of every page that go to the first page of other sections within a site group.

4. **The Search Function:** Pressing CTRL + F will display a search box. Enter the desired term in the search box and press ENTER or NEXT. When there are multiple occurrences of the term:
   
   A. Use the NEXT button to view consecutive occurrences of the term.
   B. Use the PREVIOUS button go back to the most recently viewed term.

5. **Adobe Reader/Acrobat Updates:** Be sure to keep your version of Adobe up to date. The above functions may not work on outdated versions. You may need to consult your IT department to obtain the latest versions.

6. For full performance on mobile operating systems, it is recommended that you download the free Adobe Reader app from the Apple App Store or Google Play Store.
Solid Tumor Rules 2018
General Instructions
(Excludes lymphoma and leukemia M9590 – M9992)

How to Use the Solid Tumor Rules

Note: The rules do not apply to hematopoietic primaries (lymphoma and leukemia) of any site. Use the Hematopoietic & Lymphoid Neoplasm Coding Manual and Database for histologies M9590-M9992.

1. The purpose of these rules is to determine multiple primaries and to code histology ONLY. The Solid Tumor Rules are not used to determine case reportability, casefinding, stage, or tumor grade. For instructions on coding grade, stage, SSDIs, and treatment, please refer to the appropriate manuals.
2. Staging systems are not used to determine the number of primaries or histology.
3. Use the following site-specific rules for tumors diagnosed 1/1/2018 and forward:
   - Malignant CNS and Peripheral Nerves
   - Non-Malignant CNS
   - Breast
   - Colon
   - Head and neck
   - Kidney
   - Lung
   - Urinary sites
4. Use the following site-specific rules for tumors diagnosed 1/1/2007 through 12/31/2020:
   - Cutaneous Melanoma (not updated for 2018)
   - Other Sites (not updated for 2018) for solid tumors which occur in primary sites not covered by the site-specific rules.
5. 2007 MPH Rules and 2018 Solid Tumor Rules are used based on date of diagnosis.
   - Tumors diagnosed 01/01/2007 through 12/31/2017: Use 2007 MPH Rules
   - Tumors diagnosed 01/01/2018 and later: Use 2018 Solid Tumor Rules (with exceptions in #4)
   - An original tumor diagnosed before 1/1/2018 and a subsequent tumor diagnosed 1/1/2018 or later in the same primary site: Use the 2018 Solid Tumor Rules
6. Use the Solid Tumor Rules in the following order:
   A. For multiple tumors, you must decide whether they are a single or multiple primaries:
      i. Use the Histology Rules to assign a “working” histology for each tumor.
      ii. Use Multiple Primary Rules to determine whether the tumors are a single primary or multiple primaries.
      iii. If a single primary, follow the priority order in #6B.
      iv. If multiple primaries, follow the priority order in #6B for EACH of the separate tumors/primaries.
   B. For a single tumor or multiple tumors determined to be a single primary:
      i. General Instructions
      ii. Equivalent Terms and Definitions
iii. Multiple Primary Rules
iv. Histology Rules

7. The Solid Tumor Rules are available in text format.
8. Notes and examples are included with some of the rules to highlight key points or to add clarity to the rules.
9. Rules are in hierarchical order within each module. Use the first rule that applies and

STOP

How to Use the Equivalent Terms and Definitions

The Equivalent Terms and Definitions contain the following:
- Changes from the 2007 Multiple Primary and Histology Rules
- Equivalent and equal terms
- Terms that are not equivalent or equal
- Tables for coding
  - Primary site codes
  - Combination histologies
  - Reportable histologies and subtypes/variants
  - Not reportable histologies
  - Paired sites
- Illustrations

Multiple Primary Rules Do NOT Apply to Tumors Described as Metastases

Each Multiple Primary Rule section begins with a note that reads, “These rules are NOT used for tumor(s) described as metastases.”
This means that a tumor in a metastatic site is not counted when deciding which module to use in the Multiple Primary Rules (Unknown if Single or Multiple Tumors, Single Tumor or Multiple Tumors).
How to Use the Multiple Primary Rules

1. To choose the appropriate module (Unknown if Single or Multiple Tumors, Single Tumor, Multiple Tumors), determine the number of tumors.
   A. Do not count metastatic lesions when determining which module to use.
   B. When the number of tumors is unknown/not documented, use the “Unknown if Single or Multiple Tumors” module.
      i. When there is a tumor or tumors with separate microscopic foci, ignore the microscopic foci.
   C. When the patient has a single tumor, use the “Single Tumor” module.
   D. When the patient has multiple tumors, use the “Multiple Tumors” module.
2. When the rules return a single primary, prepare one abstract.
3. When the rules return multiple primaries, prepare two or more abstracts.
4. For those sites/histologies which have recognized biomarkers, the biomarkers frequently identify the histologic type. Currently, there are clinical trials being conducted to determine whether these biomarkers can be used to identify multiple primaries. Follow the Multiple Primary Rules; do not code multiple primaries based on biomarkers.

Timing Rules

Each Solid Tumor site group includes timing rules in the Multiple Primary Rules. It is important to remember that timing rules differ by site. Examples of timing rules include:

- Abstract multiple primaries when the patient has a subsequent tumor after being clinically disease-free for greater than X years after the original diagnosis or last recurrence.
- Abstract a single primary (the invasive) when an invasive tumor is diagnosed less than or equal to 60 days after an in-situ tumor

One year = 365 days
Example: A tumor diagnosed 1/1/2018 and second tumor diagnosed 1/1/2019 occur exactly one year apart.

Less than one year = Less than 365 days
More than one year = 366 days or more
Example: A tumor diagnosed 1/1/2018 and second tumor diagnosed 1/2/2019 occur more than one year apart.

- **Clinically disease-free** means that there was **no evidence** of recurrence on follow-up.
- When there is a recurrence less than or equal to X years of diagnosis, the **clock** starts over. The time interval is calculated from the **date of last recurrence**. In other words, the patient must have been disease-free for greater than X years from the date of the last recurrence.
- When it is **unknown/not documented** whether the patient had a recurrence, default to **date of diagnosis** to compute the time interval.
- Use the Multiple Primary Rules as written to determine whether a subsequent tumor is a new primary or a recurrence. The **ONLY exception** is when a **pathologist compares slides** from the subsequent tumor to the “original” tumor and documents the subsequent tumor is a recurrence of the previous primary. Never code multiple primaries based only on a physician’s statement of “recurrence” or “recurrent”.

### Histologic Type ICD-O-3

**Item Length:** 4  
**NAACCR Item #:** 522  
**NAACCR Name:** Histologic Type ICD-O-3

The data item Histologic Type ICD-O-3 describes the microscopic composition of cells and/or tissue for a specific primary. The tumor type or histology is a basis for staging and determination of treatment options. Histology affects treatment decisions, prognosis and course of the disease.

The North American Association of Central Registries (NAACCR) has released Guidelines for ICD-O-3 Histology Code and Behavior Update effective for cases diagnosed 1/1/2018 forward. The update includes:

- New ICD-O codes
- Changes in behaviors for existing ICD-O codes
- New preferred terminology

Since a release date for either ICD-O-3.2 or ICD-O-5 is unknown, the Solid Tumor Editors recommend coding histology using:

- The 2018 Solid Tumor Rules
- Updated ICD-O histology codes and terms which can be found at: https://seer.cancer.gov/icd-o-3/
- The ICD-O

When a histology code cannot be identified using the above recommendations, submit a question to Ask a SEER Registrar.

How to Use the Histology Rules

**Note 1**: Do not use these rules to determine case reportability.

**Note 2**: Refer to the How to Use the Solid Tumor Rules for instructions on the order in which to use the rules.

1. Rules are divided into two sections: Single Tumor and Multiple Tumors Abstracted as a Single Primary
   A. Each section is a complete set of rules.
   B. Within each section, the rules are hierarchical. Use the first rule that applies and **STOP**. Do not continue through the rules.
2. Code the histology diagnosis prior to neoadjuvant therapy. Neoadjuvant therapy can change the histological profile of the tumor.
3. Code the histology assigned by the physician. Do not change histology in order to make the case applicable for staging.
4. A list of terms which can be used and terms which cannot be used to code histology precede each set of histology rules.
5. Code a histology when described by ambiguous terminology **ONLY** when:
   - Histology is clinically confirmed by a physician (attending, pathologist, oncologist, etc.)
   - Patient is treated for the histology described by an ambiguous term
• Case is accessioned (added to your database) based on a single histology described by ambiguous terminology and no other histology information is available/documented

*Note:* If the histology described by ambiguous terminology does not meet any of the criteria in bullets 1, 2, or 3, **DO NOT CODE** the histology.

<table>
<thead>
<tr>
<th>Ambiguous Terminology</th>
<th>Most likely</th>
</tr>
</thead>
<tbody>
<tr>
<td>Apparently</td>
<td>Most likely</td>
</tr>
<tr>
<td>Appears</td>
<td>Presumed</td>
</tr>
<tr>
<td>Comparable with</td>
<td>Probable</td>
</tr>
<tr>
<td>Compatible with</td>
<td>Suspect(ed)</td>
</tr>
<tr>
<td>Consistent with</td>
<td>Suspicious (for)</td>
</tr>
<tr>
<td>Favor(s)</td>
<td>Typical (of)</td>
</tr>
<tr>
<td>Malignant appearing</td>
<td></td>
</tr>
</tbody>
</table>

Ambiguous terminology from the SEER Manual and CoC Manual is used to determine reportability, not to determine histology.

**Priority Order for Using Documentation to Code Histology**

For each site, priorities include tissue/histology, cytology, radiography/scans, and physician diagnoses, and biomarkers. **You must use the priority order that precedes the histology rules for each site.**

• Priority order will differ by site. Tissue pathology (and/or biomarkers, if applicable) always takes precedence.
• The specific types of radiography/scans also differ by site.
Note: Use these terms and definitions for all reportable tumors except lymphoma and leukemia primaries (M9590-9992).

Bilateral: Relating to the right and left sides of the body or of a body structure; bilaterality is not an indication of single or multiple primaries.

Clinical Diagnosis: A diagnosis that is not microscopically confirmed. It may be based on information from the clinician’s expertise.

Contiguous tumor: A single tumor that involves, invades, or bridges adjacent or connecting sites or subsites.

De novo: For colon cancer, de novo (formerly called frank) carcinoma originates in the mucosa of the colon rather than in a polyp.

Focal: An adjective meaning limited to one specific area. A focal cancer is limited to one specific area or organ. The area may be microscopic or macroscopic.

Foci: Plural of focus.

Focus: A term used by pathologists to describe a group of cells that can be seen only by a microscope. The cells are noticeably different from the surrounding tissue either by their appearance, chemical stain, or other testing.

Laterality: Indication of which side of a paired organ/site a tumor is located. (See Paired organ/site)

Multiple primaries: More than one reportable case.

NED: Acronym for “no evidence of disease”; disease free

Non-contiguous: Not touching along the boundary; not being in actual contact

Overlapping tumor: A single tumor which has spread from the primary site to adjacent organs or tissue. Adjacent organs/tissue are next to each other.
Paired organ/site: There are two organs, one on the left side of the body and one on the right side of the body. (See Laterality)

Recurrence: This term has two meanings:
- The reappearance of disease that was thought to be cured or inactive (in remission). Recurrent cancer starts from cancer cells that were not removed or destroyed by the original therapy.
- A new occurrence of cancer in the same primary site such as a previous adenocarcinoma of the right lung and a subsequent squamous cell carcinoma of the left lung called a “recurrence” of lung cancer (the patient had lung cancer before, now has another lung cancer). This type of recurrence arises from cells that have nothing to do with the earlier (first) cancer. A new or another occurrence, incidence, episode, or report of the same disease (cancer) in a general sense – a new occurrence of cancer.

Simultaneous: This term is used in the Solid Tumor Rules to describe malignant tumors diagnosed at the same time or during initial workup (prior to first course of therapy).

Single primary: One reportable case. The Multiple Primary Rules say “abstract a single primary” when multiple tumors are:
- Simultaneous and abstracted as a single primary OR
- Subsequent tumor(s) which are a recurrence rather than a multiple primary

Synchronous: See “Simultaneous”.

Unilateral: Relating to one side of the body or one side of a body structure

WHO/IARC: The International Agency for Research on Cancer (IARC) is a specialized cancer agency at the World Health Organization (WHO). WHO’s primary role is to direct international health within the United Nations system and to lead partners in global health responses. IARC is responsible for the WHO Classification of Tumours, also known as the Blue Books.