


Colon, Rectosigmoid, and Rectum Primary Site & Histology Solid Tumor Rules Effective 2018 dx and forward

Presented by Lori Somers, RN
SHRI Video Training Series | Iowa Cancer Registry
Recorded 1/2023


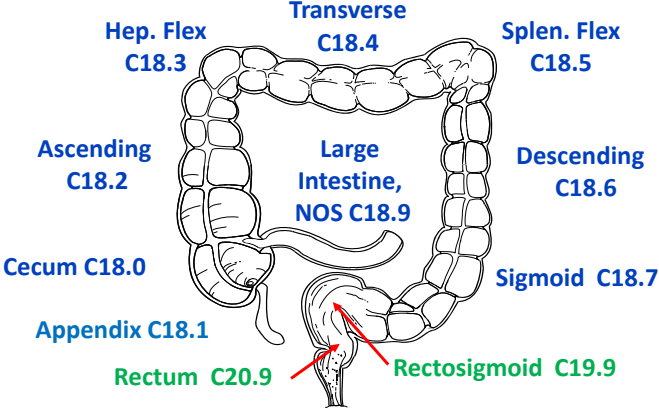


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Colorectal Anatomy

Primary Site ICD-O Codes for Colon and Rectum



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Determining Primary Site

COLON C180-C189

Coding Guidelines [Appendix C of SEER Manual]

- **Priority Order for Coding Primary Site**

Resected cases

- Operative report with surgeon's description
- Pathology report
- Imaging

Polypectomy or excision without resection

- Endoscopy report
- Pathology report

RECTOSIGMOID JUNCTION C199

Coding Guidelines

- Code rectosigmoid when differentiation between rectum and sigmoid not possible
- Tumor classified as rectal
 - Lower margin lies <16 cm from anal verge
 - Any part of tumor located at least partly within supply of superior rectal artery



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Determining Primary Site

Subsites:

- Code the subsite with the most tumor when the tumor overlaps two subsites.
- Code C188 when both subsites are equally involved

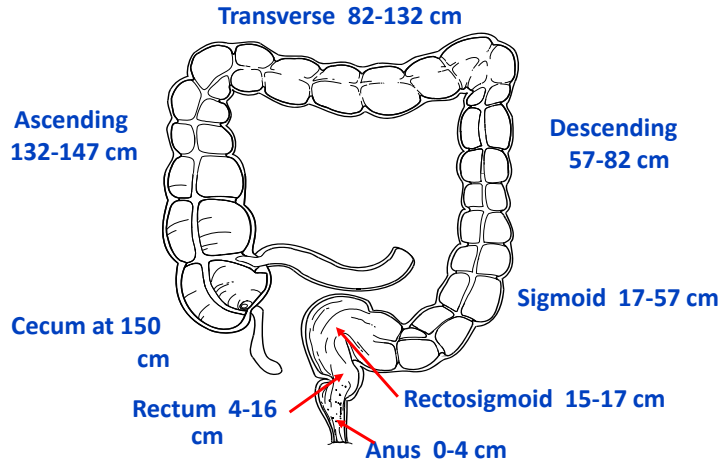
Colonoscopy measurement as indication of tumor location



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Colonoscopy Measurements*



* from anal verge Approximations only.
 Source: AJCC Cancer Staging Manual, fifth edition, page 85, 1997.




USE Solid Tumor Rule Manual

Effective with cases 1/1/2018 and forward
 Updated September 2021

Solid Tumor Rules

Effective with Cases Diagnosed 1/1/2018 and Forward

Updated September 2021



Editors: Lois Dickie, CTR, NCI SEER
 Carol Hahn Johnson, BS, CTR (Retired), Consultant
 Suzanne Adams, BS, CTR (IMS, Inc.)
 Serban Negoita, MD, PhD, CTR, NCI SEER

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Review Manual

Introduction
Changes from 2007 MPH Rules
New for 2022
Equivalent or Equal Terms vs Non-equivalent terms
Table 1: Specific Histologies
Table 2: Histologies(Not reportable)
Illustrations



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Introduction

- 98% colon cancers are adenocarcinoma and adenoca subtypes
- Mixed histologies rare
- Terms: NET, NEC, GIST
 - NET (Neuroendocrine tumor) replacing the term carcinoid; some path still uses carcinoid
 - NEC (Neuroendocrine carcinoma) includes small cell, large cell and PD neuroendocrine carcinoma
 - GIST (gastrointestinal stromal tumor) 60% stomach; 30% small intestine
 - About 25% are malig; often difficult to determine behavior



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Changes from 2007 MPH Rules

Effective 1/1/2018 dx and later:

- Code **most specific histology** from biopsy or resection.
 - If discrepancy, code from most representative specimen (greater amt of tumor)
- New multiple primary rules to address anastomotic recurrence
- NET (formerly carcinoid) arising in appendix are reportable 1/1/2015 and forward.
- Rule Clarification: Pseudomyxoma peritonei now has two-tiered classification
 - High grade is malig /3
 - Low grade is NOT malig /1
- Dysplasias /2 behavior but not reportable in U.S.
 - Pathologists often use dysplasia in place of carcinoma in situ. Code CIS only if path states CIS.
- Disregard polyps



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New for 2022

Timing Changes

- Rule M7 and M8
- Anastomosis recurrences has changed from 24 to 36 months. Effective 2022 dx forward
- LAMN or Low grade appendiceal neoplasm reportable effective 1/1/2022
 - LAMN in situ 8480/2
 - LAMN invasive or malignant 8480/3 based on physician statement of behavior
 - LAMN diagnosed prior to 1/1/2022 are not reportable



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Terminology

• Equivalent Terms

- Tumor; mass; tumor mass; lesion; neoplasm
 - The terms tumor, mass, tumor mass, lesion, and neoplasm 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

• Not Equivalent or Equal

- Phenotype is not equivalent to subtype/type/variant



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Table 1

Specific Histologies, NOS and Subtypes/Variants

Note 1: Rare histologies may not be listed in table

Note 2: Submit a question to Ask a SEER Registrar when histology code is not found in Table 1, ICD-0 or all updates.

Note 3: Behavior codes are listed when term has only one possible behavior (either /2 or /3)

- If not specified can be /2 or /3

• Columns & Rows



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Colon, Rectosigmoid, and Rectum Equivalent Terms and Definitions
C180-C189, C199, C209
 (Excludes lymphoma and leukemia M9590 – M9992 and Kaposi sarcoma M9140)

James **Jim or Jimmy** **Sons of James: Ian, Dan**

Specific and NOS Term and Code	Synonyms for Specific or NOS Term	Subtypes/Variants
1 Gastrointestinal stromal tumor 8936/3 <i>Note:</i> See standard setter reportability guidelines.	Gastrointestinal stromal tumor GIST, NOS GIST, malignant Gastrointestinal stromal sarcoma	
2 Mixed adenoneuroendocrine carcinoma 8244	Adenocarcinoma ex-goblet cell Adenocarcinoma mixed with high-grade large cell neuroendocrine carcinoma Adenocarcinoma mixed with high-grade small cell neuroendocrine carcinoma MANEC	Goblet cell adenocarcinoma/Goblet cell carcinoid 8243
3 Neuroendocrine carcinoma 8246	NEC	Large cell NEC 8013 Small cell NEC 8041
4 Neuroendocrine tumor Grade 1 (G1) 8240 <i>Note:</i> When the diagnosis is exactly "carcinoid" it may be a Grade 1 or Grade 2 NET. Default is coding NET Grade 1 8240.	Carcinoid NOS Low-grade neuroendocrine tumor NET Grade 1 (G1) Well differentiated neuroendocrine tumor	EC cell serotonin-producing NET/enterochromaffin cell carcinoid 8241 Neuroendocrine tumor (NET) Grade 2 (G2) 8249 Somatostatin-producing NET 8156
5 Sarcoma NOS 8800/3		Angiosarcoma/hemangiosarcoma 9120/3 Leiomyosarcoma 8890/3
6 Spindle cell carcinoma 8032		
7 Squamous cell carcinoma 8070	Epidermoid carcinoma NOS Squamous cell carcinoma NOS Squamous cell epithelioma	

*These new codes were approved by the IARC/WHO Committee for ICD-O.

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Colon, Rectosigmoid, and Rectum Equivalent Terms and Definitions
C180-C189, C199, C209
 (Excludes lymphoma and leukemia M9590 – M9992 and Kaposi sarcoma M9140)

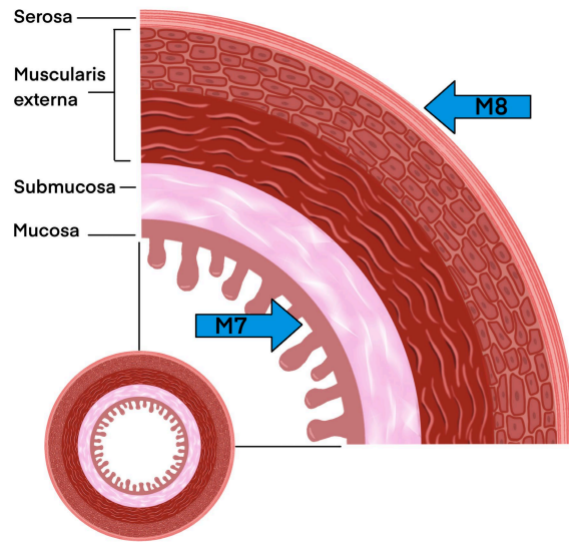
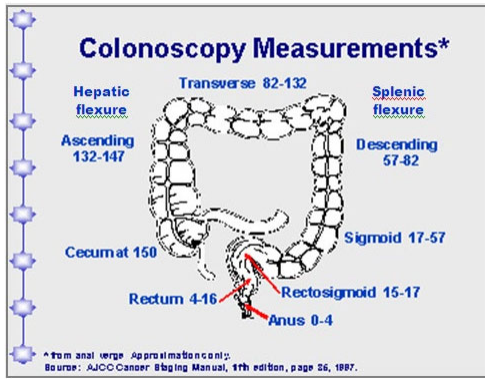
Table 2: Histologies Not Reportable for Colon, Rectosigmoid and Rectum

Column 1 lists the **non-reportable** histology term and code for NOS or specific
Column 2 lists the **synonym(s)** for the term
Column 3 lists the **subtype/variant** of the NOS term with the histology code
Column 4 lists the **reason** these histologies are **not reportable**

Specific or NOS Term and Code	Synonyms	Subtype/Variant of NOS with Histology Code	Reason not reportable
Adenoma 8140/0 <i>Note:</i> No malignancy in polyps	Adenoma NOS	Tubular adenoma 8211/0 Tubulovillous adenoma 8263/0 Villous adenoma 8261/0	Non-malignant
Cowden-associated polyp No code <i>Note:</i> No malignancy in polyps	Cowden disease Cowden syndrome Multiple hamartoma syndrome		Non-malignant /no code
Dysplasia, high grade 8148/2 <i>Note:</i> Colorectal primaries only (C180-C189, C199 and C209)	High-grade dysplasia Intraepithelial neoplasia, high grade		CURRENTLY NOT REPORTABLE
Dysplasia, low grade 8148/0* <i>Note:</i> Colorectal primaries only (C180-C189, C199 and C209)	Intraepithelial neoplasia, low grade		Non-malignant

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Illustrations



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Multiple Primary Rules

Unknown if single or multiple M1

- Single tumor if unable to determine

Single Tumor M2

- Single tumor is always a single primary

Multiple Tumors M3-M15

- May be a single primary or multiple primaries

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Example Multiple Primary Sites

Example 1: 3/17/2020 Malignant mass found in **transverse colon C18.4**, and another malignant mass found in **descending colon C18.6**.

- **Biopsy showed adenocarcinoma (8140) of both lesions.**
- How many primaries?



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Multiple Primary Rules | Multiple Tumors Header

Note 2: Collision tumors

M3 polyposis, FAP

M4 Abstract mult pri when there are separate non-contiguous tumors in sites with ICDO site codes that differ at the second, **CXxx** and or third, **CxXx** character

C18.4 and C18.6. Do not stop. **YET.**



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Multiple Primary Rules | Multiple Tumors Header

- **M5** histology subtypes in Table 1, Column 3
- **M6** different rows Table 1
- **M7** anastomotic site (mucosa)
- **M8** anastomotic site (serosa)
- **M9** Abstract Multiple primaries when separate non-continuous tumors in ICDO site that differ at 4th character C18X.
C18.4 and C18.6



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Example Multiple cancers

Example 2:

- Patient with Colon cancer in 2000 and on your database with Site: C18.2 **Ascending** colon PD invasive adenocarcinoma. 8140/3 on hemicolectomy.
- In 2022 found **to have recurrence at the anastomotic site dx exactly as mucinous adenocarcinoma (8480).**



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Anastomotic Rule

Rule M7 Abstract **multiple primariesⁱⁱ** when a subsequent tumor arises at the **anastomotic site AND:**

- One tumor is a **NOS** and the other is a **subtype/variant** of that NOS **OR**
- The subsequent tumor occurs **greater than 36 months** after original tumor resection **OR**
- The **subsequent** tumor arises in the **mucosa** (see [illustration](#))

Note: Bullet three does not apply to GIST. GISTs only start in the wall; never in the mucosa.

Example: (For bullet 1: NOS and subtype/variant) The original tumor was adenocarcinoma NOS **8140**. The patient had a hemicolectomy. There was a recurrence at the **anastomotic site** diagnosed exactly as **mucinous adenocarcinoma 8480**. Mucinous adenocarcinoma is a subtype/variant of the NOS adenocarcinoma, but they are two different histologies. **Code two primaries**, one for the original adenocarcinoma NOS and another for the subsequent anastomotic site mucinous adenocarcinoma.

Note 1: There may or may not be **physician documentation** of anastomotic recurrence. Follow the rules.

Primary site of Tumor 02 coded to C18.9

Rationale: Two segments of colon had previously been resected and sewn together, so usually unable to tell origin of anastomotic tumor.

Resource: AJCC Staging Manual, pg 262: If the tumor recurs at the site of surgery, it is anatomically assigned to the proximal segment of the anastomosis (unless that segment is the small intestine, in which case the colonic or rectal segment should be designated as appropriate) and restaged by the TNM Classification.

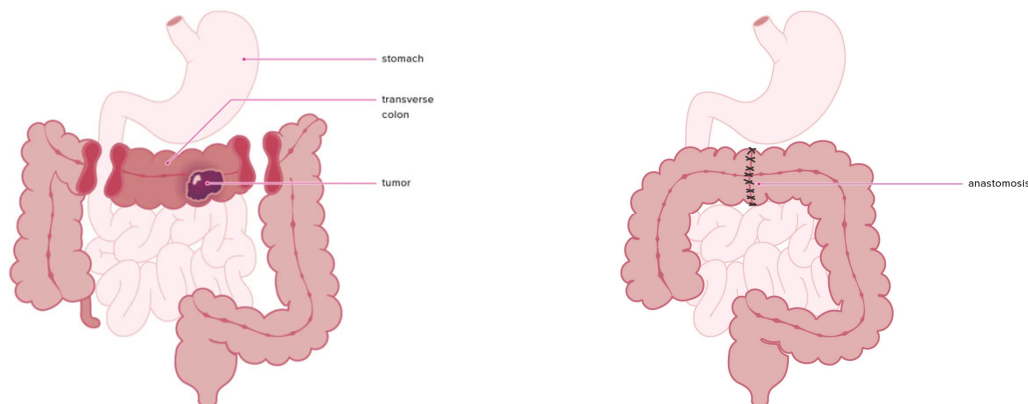
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Anastomosis

- <https://www.healthline.com/health/anastomosis>



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Multiple Primary Rules

- **M10** NED rule for >1 year.
- **M11** Abstract single primary, synchronous tumors, same row Table 1
- **M12** Abstract single primary in situ after invasive
- **M13** Abstract single primary invasive within 60 days of in situ
- **M14** Abstract multiple primary invasive more than 60 days after in situ
- **M15** Abstract single primary when tumor do not meet criteria above

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Coding
Histology

Priority Order for Using
Documentation to identify Histology

Coding Histology

H Rules

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Priority Order for Using Documentation

1. Code histology prior to neoadjuvant treatment
 - a. Therapy may change histology
 - b. Any tumor-related treatment given prior to surgical removal of malignancy

***Exception:** If initial dx based on histology from FNA, smears, cytology, or from regional or metastatic site and neoadjuvant therapy given followed by resection of primary site which identifies different or specific histology, code histology from the primary site.*

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Priority Order for Using Documentation

2. Code histology using the following priority list (for single primaries) and Histology Rules. Code **most specific** path/tissue from either resection or biopsy

Note 1: Most specific usually subtype/variant

Note 2: Code invasive if in situ and invasive components in single tumor

Note 3: Discrepancy between biopsy and resection (2 distinct different histologies/different rows) code histology from most represented specimen (greater amt of tumor)

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List of hierarchical source documents

1. Tissue or path report from primary site (includes addendums, final, synoptic, CAP)
2. Tissue/path from metastatic site
3. Scan in priority order:
 - a. CT
 - b. PET
 - c. MRI
4. Histology documented by physician when none of above available
 - a. Treatment plan
 - b. Tumor board
 - c. Medical record documents referring to original path, cytology, scans
 - d. Cytology (seldom used for colon, rectosigmoid and rectum)

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Coding Histology

Note 1: Priority is to code most specific histology. DO NOT USE BREAST HISTOLOGY CODING RULES FOR THIS SITE.

Note 2: Only use this section for one or more histologies in a single tumor.

Note 3: Do not use this section in place of Histology Rules

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Coding Histology

1. **Code most specific histology or subtype/variant, regardless if described as:**
 - A. Majority or predominant part of tumor
 - B. Minority of tumor
 - C. A component
2. **Code histology described as differentiation or features/features of **ONLY** when specific code**
3. **Histology described by ambiguous terms ONLY when A or B is true:**
 - A. **The only dx available is one histology described by ambiguous term**
 - B. **There is an NOS and a more specific (subtype/variant) described by ambig term**
 - Term is clinically confirmed by attending OR
 - Treatment based on specific histology described by ambig term
4. **DO NOT CODE:** Architecture; foci; focus; focal or pattern.

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Ambig Terms

If the specific histology does not meet the criteria in #3B, then code the NOS histology.

List of Ambiguous Terminology

Apparently	Most likely
Appears	Presumed
Comparable with	Probable
Compatible with	Suspect(ed)
Consistent with	Suspicious (for)
Favor(s)	Typical (of)
Malignant appearing	

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Histology Rules | Single Tumor

- H1 Exactly adenocarcinoma with neuroendocrine differentiation
- H2 Polyps rule (ignore)
- H3 Combined small cell rule
- H4 Mixed mucinous and signet ring cell
- H5 LAMN & HAMN /2
- H6 Exactly mucinous or 2 histologies and mucinous >50%
- H7 Exactly signet ring cell or 2 histologies and signet ring >50%



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Histology Rules | Single Tumor

- H8 Adenocarcinoma NOS; 2 histologies % unknown or < 50%
- H9 One histology present, use Table 1
- H10 Code invasive when in situ and invasive present in same tumor
- H11 Code subtype/variant when NOS and single subtype/variant



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Histology Rules | Multiple Tumors abstracted as single tumor

- H12 FAP
- H13 FAP not mentioned but at least 2 polyps or <100 polyps identified
- H14 Code invasive when /2 and /3 tumors
- H15 Code the histology when only one histology is present in all tumors.
- H16 code the subtype/variant if NOS and single s/v of that NOS



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- **Example 1:** 5/5/2022 Hemicolectomy Path: A 4.0 cm size MD adenocarcinoma and signet ring cell carcinoma in 45% of tissue of the transverse colon.

M2 Single primary when there is a single tumor

H8 Applies to this case.

Two histologies:

Adenoca and signet ring cell carcinoma

Percentage of signet ring cell documented less than/equal to 50% of tumor

Code 8140 Adenocarcinoma, NOS

Site code C18.4 Transverse Colon



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NET (Carcinoid) cancer

Look for schemas starting with NET

All NET tumors are considered malig, /3.

Effective 2015, carcinoid tumor, NOS of appendix (C18.1) is reportable, 8240/3.

Keep it simple: Code all to /3 unless designated benign.



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SEER*RSA

EOD Data v2.1 NAACCR 2022 SCHEMA LIST MANUALS STAGING

EOD Home > Schema List

Cancer Schema List

Standard Search Site/History Search

Search Term(s) >

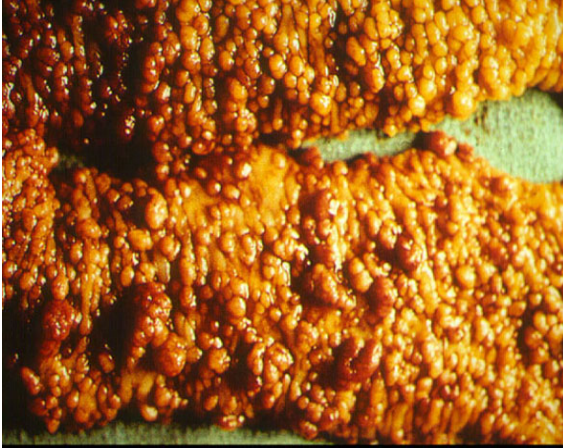
Adnexa Uterine Other	Esophagus (including GE junction)	Maxillary Sinus
Adrenal Gland	Squamous	Melanoma Choroid and Ciliary Body
Ampulla of Vater	Eye Other	Melanoma Conjunctiva
Anus	Fallopian Tube	Melanoma Head and Neck
Appendix	Floor of Mouth	Melanoma Iris
Bile Duct Distal	Gallbladder	Melanoma Skin
Bile Ducts Intrahepatic	Genital Female Other	Merkel Cell Skin
Bile Ducts Perihilar	Genital Male Other	Middle Ear
Biliary Other	GIST	Mouth Other
Bladder	Gum	Mycosis Fungoides
Bone Appendicular Skeleton	Heart, Mediastinum and Pleura	Nasal Cavity and Ethmoid Sinus
Bone Pelvis	HemeRetic	Nasopharynx
Bone Spine	Hypopharynx	NET Adrenal Gland
Brain	ILL-Defined Other	NET Ampulla of Vater
Breast	Intracranial Gland	NET Appendix
Buccal Mucosa	Kaposi Sarcoma	

- NET Adrenal Gland
- NET Ampulla of Vater
- NET Appendix
- NET Colon and Rectum
- NET Duodenum
- NET Jejunum and Ileum
- NET Pancreas
- NET Stomach



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FAP (8220)



- Familial adenomatous polyposis (FAP)
 - also known as familial polyposis coli
 - subtype: Gardner syndrome (with other neoplasms)
 - genetic defect
 - patients have >100 colon polyps (usually thousands); most are tubular adenomas
 - 100% progress to colon carcinoma
 - prophylactic colectomy by age 20-25

Reportable only when cancer in a polyp

Rule M3 single primary

Rule H11 8220



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Anus Histology

- **Squamous cell carcinoma (8070/3)**
 - Arises in the anus
- **Cloacogenic transitional cell carcinoma (8124/3)**
 - Arises at anorectal junction

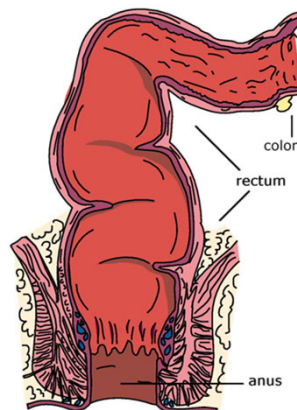
Primary Site :

C21.0 Anus NOS

C21.1 Anal Canal

C21.2 Cloacogenic zone

C21.8 Overlap rectum & anus



EOD Data v2.1 NAACCR 2022
SEER*RSA

EOD Home > Schema List

Cancer Schema List

Standard Search Site/Hist Search

Search Term(s)

Adnexa Uterine Other	Esophagus
Adrenal Gland	Squamous Cell
Ampulla of Vater	Eye
Anus	Fallopian Tube
	Bladder



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Histology Example #1

Pathology: 3-1-22 Left colon resection: **Final DX** = Mass in the splenic flexure MD mucinous adenocarcinoma. Tumor invades through bowel wall. 1 out of 13 mesenteric LNs pos. Stage pT3pN1cM0.

Primary Site C18.5

Histology/behavior: 8480/3



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Primary Site and Morphology Exercises

STOP
for
EXERCISES



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Case #1

Final Pathology: 3-1-22 Sigmoid resection: Tumor in sigmoid colon, Infiltrating PD adenocarcinoma with mucinous features. Tumor invades through bowel wall. 1 out of 13 mesenteric LNs pos.

Primary Site

Histology/Behavior

- Code the histology described as **differentiation** or **features/features of ONLY** when there is a specific ICD-O code for the “NOS with ___ features” or “NOS with ___ differentiation”.

Note: Do not code differentiation or features when there is no specific ICD-O code.

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Case #2

FINAL Pathology: 3-1-22 L colon resection: Tumor in left colon, Infiltrating well diff adenocarcinoma and signet ring cell carcinoma (>75%). Tumor invades through bowel wall. 1 out of 13 mesenteric LNs pos.

Primary Site

Histology/Behavior

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Case #3

Scope: 7/4/2022 Colonoscopy shows tumor 10cm from dentate line.

FINAL Pathology: 3-1-20 Rectosigmoid resection: **Gross=** A 1.5 cm rectal mass showing dysplasia, high grade, intraepithelial neoplasia.

Primary Site

Histology/Behavior

Dysplasia, high grade 8148/2 <i>Note:</i> Colorectal primaries only (C180-C189, C199 and C209)	High-grade dysplasia Intraepithelial neoplasia, high grade		CURRENTLY NOT REPORTABLE
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Case #4

Surgery: 10-10-22 R Hemicolectomy: Adenoma in Hepatic flexure

FINAL Pathology: 10-10-22 Tubulovillous adenoma at the hepatic flexure with infiltrating mucinous adenocarcinoma, invasion into submucosa. All 10 pericolic LNs negative. Margins free.

Primary Site

Histology/Behavior

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Case #5

Surgery: 10-30-22 Right hemicolectomy: liver palpated WNL.

FINAL Pathology: 10-30-22 Right colon, terminal ileum and appendix. DX= Two separate lesions are both mod diff adenoCA; Largest tumor in ascending colon is 3.7cm, infiltrates the muscularis propria and pericolonic fat. Margins negative. 5/14 LNs positive. Second tumor in hepatic flexure is 0.9 cm polyp which invades submucosa.

How many abstracts? _____

Primary Site

Histology/Behavior



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Homework

SEER Solid Tumor Rules on SEER*Edu

- <https://educate.fredhutch.org/LandingPage.aspx>
- Training | Coding CEs (formerly Practical Application)
 - Select DX 2018-2022 Solid Tumor Rules
 - Colon 2018-2022 Cases 1-5



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Questions

Contact Info
Lori Somers, RN
Training & Quality Improvement
State Health Registry of Iowa
lori-somers@uiowa.edu

