NAACCR 2009-2010 Webinar **Series**

Collecting Cancer Data: Soft Tissue Sarcoma, **Neuroendocrine Tumors (NET) and Gastrointestinal Stromal Tumors** (GIST)

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- Updates
- Soft Tissue Sarcoma

 - Overview
 CSv2
 MP/H Rules
- Gastrointestinal Stromal Tumor (GIST)
 - OverviewCSv2
- Neuroendocrine Tumors (NET) OverviewCSv2
- Questions from previous webinars

2010 Update

NAACCR	2009-2010	Wehinar	Series
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Access to 2010 Information

- "Everything 2010"
 - NAACCR one stop shop for everything 2010
 - EDITS metafile and EDITS software
 - Links to standard setters requirements and manuals
 - CSv2 software products
 - CSv2 coding instructions
 - Hematopoietic and lymphoid neoplasm project
 - Training links

CSv2

- Pre and post treatment CS data fields
 - Implementation delayed until 2012
 - Will be collected only for selected sites
- Next CSv2 version will be released by the end of April

Soft Tissue Sarcoma

Overview

Soft Tissue Sarcoma

- Estimated new cases and deaths from soft tissue sarcoma in the United States in 2009:
 - New cases: 10,660
 - Deaths: 3,820
- · Risk factors
 - Radiation
 - Workplace chemicals
 - Genetics

Soft Tissue Sarcoma

- Peripheral Nerves and Autonomic Nervous System
 - C47.0-C47.6, C47.8-C47.9
- Connective, Subcutaneous and Other Soft Tissues
 - C49.0-C49.6, C49.8-C49.9
- - Laterality must be coded for C47.1-C47.2 and C49.1-C49.2
- - Soft tissue sarcomas of the heart and mediastinum (C38.0-C38.3 and C38.9) use the Heart, Mediastinum schema

Terminology

- ost(e)-, oste(o)- bone
- chondr(i)o- cartilage, gristle, granule, granular • angi(o)- blood vessel
- lei(o)- smooth
- my(o)- Of or relating to neur(i)-, neur(o)- Of or muscle
- lip(o)- fat
- hema or hemo- blood
- fibr(o) fiber
 - pertaining to nerves and the nervous system

Question

• What is the morphology code of pleomorphic leiomyosarcoma arising from the right thigh?

Answer

- Using Rule F in ICD-O-3 (pg. 20)
 - Change 8893/<u>0</u> (pleomorphic leiomyoma) to 8893/<u>3</u> for pleomorphic leiomyosarcoma (the malignant form of a leiomyoma).

(I & R Team) 46940

ICD-O-3 Coding Guidelines

- Principle Rules
 - Rule J. Compound morphology diagnoses: Change the order of word roots in a compound term if the term is not listed in ICD-O.
 - Example:
 - Myxofibrosarcoma
 - Assign histology code 8811/3 (fibromyxosarcoma)

Multiple Primary Rules

Other

Multiple Primary Rules-Other

Multiple Tumors

- M8
- Tumors on both sides of a paired organ are single primary.
- M10
 - Tumors diagnosed more than 1 year apart are multiple primaries.
- M11
 - Tumors with ICD-O-3 topography codes that are different at the second (Cxxx) and/or third characters (Cxxx) are multiple primaries.

Multiple Primary Rules-Other

Multiple Tumors

- M12
 - Tumors with ICD-O-3 topography codes that differ only at the fourth character (Cxxx) and are in any one of the following primary sites are multiple primaries.
 - Anus and anal canal (C21_)
 - Bones, joints, and articular cartilage (C40_- C41_)
 - Peripheral nerves and autonomic nervous system (C47_)
 - Connective subcutaneous and other soft tissues (C49_)
 - Skin (C44_)

Multiple Primary Rules-Other

Multiple Tumors

- M16
 - Abstract as a single primary when one tumor is Sarcoma, NOS (8800) and another is a specific sarcoma.
- M17
 - Tumors with ICD-O-3 histology codes that are different at the first (xxxx), second (xxxx) or third (xxxx) number are multiple primaries.
- Rule M18
 - Tumors that do not meet any of the above criteria are a single primary.

Single Tumor-Histology

- Rule H11
 - Code the histology when only one histologic type is identified.
- Rule H13
 - Code the most specific histologic term.
 - Sarcoma, NOS (8800) and a more specific sarcoma

Single Tumor-Histology

- Rule H16
 - Code the appropriate combination/mixed code (Table 2) when there are multiple specific histologies or when there is a non-specific histology with multiple specific histologies
 - Any combination of histologies below should be coded to Mixed liposarcoma (8855)
 - Myxoid
 - Round cell
 - Pleomorphic

Single Tumor-Histology

- Rule H17
 - Code the histology with the numerically higher ICD-O-3 code.

Treatment

- Low grade early stage (I)
 - Surgery alone
- High grade later stage (II-III)
 - Should consider preoperative chemo or chemoradiation
- Stage IV
 - Chemotherapy/radiation
 - Clinical trial

CSv2

Soft Tissue Sarcoma

CS Tumor Size: SoftTissue

- Code 995
 - Less than 5 cm, or greater than 4 cm, or "between 4 cm and 5 cm"
 - Stated as T1a or T1b
- Code 996
 - Greater than 5 cm
 - Stated as T2a or T2b

CS Extension: SoftTissue

- Note 1
 - Defines connective tissue and peripheral nerves and the autonomic nervous system for the soft tissue schema
- Note 2
 - Superficial lesion
 - Located entirely in subcutaneous tissues
- Note 3
 - Deep lesion
 - Located partly or completely within 1 or more muscle groups within the extremity

CS Extension: SoftTissue

- Note 4
- Vessels with a name are considered a structure (code 600)
- Note 5
 - Tumors of extremities and trunk ONLY
 - Superficial lesion
 - $-\operatorname{\mathsf{Does}}\nolimits\,\underline{\mathsf{not}}$ involve superficial muscular fascia
 - Deep lesion
 - Involves or is beneath superficial fascia

CS Extension: SoftTissue

- Note 6
 - All intraperitoneal visceral lesions, retroperitoneal lesions, intrathoracic lesions, and majority of head and neck tumors are deep
 - Assign CS Extension codes 120, 312, 315, 320, 420, 620, 800, 950, or 990 for these sites (C47.0, C47.3-5, C49.0, C49.3-5)

CS Extension: SoftTissue

- Note 7
 - Adjacent connective tissue (code 400)
 - Unnamed tissue immediately surrounding an organ or structure containing the primary cancer

CS Extension: SoftTissue

- Tumor confined to site/tissue of origin
 - Code 100: Invasive tumor, NOS
 - Code 110: Superficial invasive tumor
 - Code 120: Deep invasive tumor

CS Extension: SoftTi	ssue			
Localized Tumor — Code 300: NOS — Code 302: Stated as T1a	Localized Tumor — Code 315: Stated as T2b — Code 320: Deep			
Code 305: Stated as T2aCode 310: Superficial	[NOS]			
- Code 312: Stated as T1b	Code 325: Stated as T2 [NOS]			
CS Extension: SoftTiss	sue			
Adjacent connective tiss				
Code 400: NOSCode 410: Superficial turCode 420: Deep tumor	mor			
code 420. Beep tullion				
		_		
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CS Extension: SoftTiss				
Adjacent organs/structu				
Code 600: NOSCode 610: Superficial tur	mor			
– Code 620: Deep tumor				

CS Lymph Nodes: SoftTissue

- Note 1
 - Regional nodes are in vicinity of primary tumor
- Note 2
 - Regional node involvement is rare
 - Assume nodes are negative (code 000) when there is no mention of lymph node involvement clinically
- Note 3
 - Regional lymph nodes include bilateral or contralateral nodes for head, neck, and trunk primaries ONLY

CS Lymph Nodes: SoftTissue

- Code 100
 - Regional lymph nodes by primary site
- Code 120
 - Submental nodes for neck primary only
- Code 150
 - Neck primary only: code 100 + code 120

CS Mets at DX: SoftTissue

Code	Description
00	No; none
10	Distant lymph node(s)
40	Distant metastases except distant lymph nodes (10)
50	(10) + (40)
60	Distant metastasis, NOS Stated as M1, NOS
99	Unknown

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SSF1: SoftTissue Grade for Sarcomas

- Three grade sarcoma grading systems
 - National Cancer Institute (NCI) system
 - French Federation of Cancer Centers Sarcoma Group (FNCLCC)
 - AJCC 7th Edition preferred sarcoma grading system

SSF1: SoftTissue Grade for Sarcomas

Code	Description	Mapping of Grade
010	Grade 1 of 3	1
020	Grade 2 of 3	2
030	Grade 3 of 3	3
100	Low grade [NOS]	1
200	High grade [NOS]	3
888	Obsolete data converted V0200	9
988	Not applicable	9
998	No histologic examination of primary site	9
999	Unknown	9

SSF2: SoftTissue

Neurovascular Invasion

Code	Definition
000	Neurovascular invasion not present/not identified
010	Neurovascular invasion present/identified
888	Obsolete data converted V0200
988	Not applicable
998	No histologic examination of primary site
999	Unknown

	SoftTissue
	nvasion
Code	Definition
000	Bone invasion not present/not identified
010	Bone invasion present/identified
888	Obsolete data converted V0200
988	Not applicable
998	No imaging done for bone invasion
999	Unknown
SSF4: 5	SoftTissue
	ogic M1: Source of Pathologic Metastati
Code 000	Description No pathological mets at diagnosis identified
	Liver mets present/identified
020	Lung mets present/identified
030	Brain mets present/identified
040	Bone mets present/identified
050	Other mets present/identified
060	Combination of code 100-500
888	Obsolete data converted V0200
988	Not applicable
998 999	No microscopic examination of metastatic Unknown
333	Olivio di la constanti di la c
	Quiz
	Quiz

Gastrointestinal Stromal	Tumors
(GIST)	

Overview

Gastrointestinal Stromal Tumors (GIST)

- What is the difference between GIST, NOS and a malignant GIST?
 - GIST, NOS 8936/1– Malignant GIST 8936/3

Question

 Path report states: Gastrointestinal stromal tumor, intermediate malignant potential, gastric fundic polyp. What is the behavior code?

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 As you can see in the ICD-O-3 book, GIST behavior can range from /0, /1 or /3. Question the pathologist as to which description best fits this diagnosis; if that is not possible, we must use GIST, NOS and code 8936/1.

(I & R Team) 46868

GIST Histology

- Stromal sarcoma, NOS 8935/3
- Gastrointestinal stromal sarcoma 8936/3
 - $\ {\sf Gastrointestinal\ stromal\ tumor,\ malignant}$
 - GIST Malignant

Question

 Gastrointestinal stromal tumor, epithelioid cell type with myxoid pattern...what is the morphology code?

Answer

- GIST, epithelioid and myxoid may be a specific subtype, but currently, there is no ICD-O-3 code to differentiate this subtype.
 - Follow Other Rule H11 and code the only type found (8936).
 - Review with the pathologist to determine if the tumor is malignant to determine the 5th digit.

Curator (I & R Team) I&R 28619

Multiple Primary and Histology Rules

• Use the site where the tumor originated to determine MPH chapter to use.

GIST Multiple Primary Rules

Stomach Other
 Small intestine Other
 Esophagus Other
 Large intestine Colon
 Rectum Other
 Other (very rare) Other

Peritoneum, mesentery, omentum, liver, pancreas, ovaries, uterus, prostate

Staging

AJCC 7th Edition TNM Stage

- Two staging forms
 - Gastric GIST
 - Small Intestine GIST
 - Esophagus
 - Colorectal
 - Peritoneum

Question

- Pathologists have used tumor size and mitotic activity to determine whether GISTS were benign or malignant.
- The 7th Edition AJCC Manual uses criteria for Stage 1 GIST which would otherwise be considered benign.
- Could you clarify if we are to go by staging criteria to determine if a GIST is reportable?

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 ...Staging does NOT determine reportability or the histology behavior codes. (I & R Team)
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AJCC 7th Edition TNM Stage

- Same T,N and M values for both forms
 - T1 Tumor 2cm or less
 - T2 Tumor more than 2cm but not more than 5cm
 - T3 $\,$ Tumor more than 5cm but not more than 10cm $\,$
 - T4 Tumor more than 10cm in greatest dimension

Appendix, Colon, and Rectum GIST SSF's

- SSF 1
 - OBSOLETE (Pre-Operative Carcinoembryonic Antigen (CEA))
- SSF 2
 - OBSOLETE (Clinical Assessment of Regional Lymph Nodes)

Appendix, Colon, and Rectum GIST SSF's

*Required by CoC and SEER

- SSF 11*
 - Mitotic Count
- SSF 12*
 - KIT Gene Immunohistochemistry (IHC)

Appendix, Colon, and Rectum GIST SSF's

Not required by CoC and SEER

- SSF 13
 - KIT Gene Mutations
- SSF 14
 - PDGFRA Gene Mutation
- SSF 15
 - Tumor Multiplicity

Esophagus, Stomach and Small Intestine GIST

Required by CoC and SEER

- SSF 6
 - Mitotic Count
- SSF 7
 - KIT Gene Immunohistochemistry (IHC)

Esophagus, Stomach and Small Intestine GIST

Not required by CoC and SEER

- SSF 8
 - KIT Gene Mutations
- SSF 9
 - PDGFRA Gene Mutation
- SSF 10
 - Tumor Multiplicity

Peritoneum GIST

Required by CoC and SEER

- SSF 5
 - Mitotic Count
- SSF 6
 - KIT Gene Immunohistochemistry (IHC)
- SSF 10
 - Location of Primary Tumor

Peritoneum GIST

Not required by CoC and SEER

- SSF 7
 - KIT Gene Mutations
- SSF 8
 - PDGFRA Gene Mutation
- SSF 9
 - Tumor Multiplicity

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CSv2 GIST	
C3V2 G131	
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Quiz	
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Neuroendocrine Tumor (NET)	
Overview	

Multiple Primary and Histology Rules

- Colon
- Other
- Lung

Colon MP/H

 Neuroendocrine carcinoma (8246): Neuroendocrine carcinoma is a group of carcinomas that include typical carcinoid tumor (8240), atypical carcinoid tumor (8249).

Colon MP/H

- Rule H8
 - Code 8240 (carcinoid tumor, NOS) when the diagnosis is neuroendocrine carcinoma (8246) and carcinoid tumor (8240).
- Rule H9
 - Code 8244 (composite carcinoid) when the diagnosis is adenocarcinoma and carcinoid tumor.
- Rule H10
 - Code 8245 (adenocarcinoid) when the diagnosis is exactly "adenocarcinoid."

Question

 How is histology coded for an appendix primary when the final pathology report states "mucinous adenocarcinoma arising in goblet cell carcinoid"?

Answer

• We follow the Colon Rules until Rule H9 adenocarcinoma and carcinoid, code 8244.

Curator (I & R Team) 27032

Other MP/H

- Stomach
- small intestine
- Pancreas
- Thyroid gland
- Adrenal gland
- Thymus

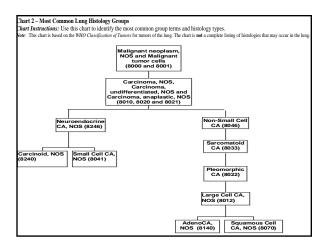
- Heart
- Other sites that develop carcinoids and small cell carcinomas
- Skin

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Lung MP/H

Equivalent terms

- Low grade neuroendocrine carcinoma, carcinoid Definitions
- Neuroendocrine carcinoma (8246): Neuroendocrine carcinoma is a group of carcinomas that include typical carcinoid tumor and small cell carcinoma. Code the specific histology when given. Code neuroendocrine carcinoma, NOS (8246) when no specific histology is documented.



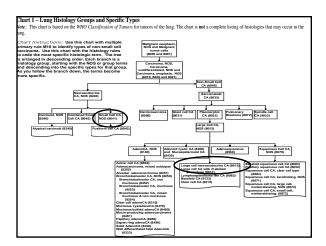
Question

 What is the histology for large cell neuroendocrine carcinoma with areas of small cell carcinoma of right upper lobe lung and why?

Answer

- Large cell neuroendocrine carcinoma (8013/3) and small cell carcinoma, NOS (8041/3) are on different branches of the histology tree.
- Large cell neuroendocrine is on the non-small cell branch and small cell is on the small cell branch.
- Go to rule H7 and code the higher numeric histology (small cell carcinoma 8041/3).

Curator (I & R Team), 24947



Required SSF's

Ampulla NET

Required by the CoC and SEER Not Required by the CoC and SEER

- Serum Chromogranin A (CgA)
- SSF 6
 - Urinary 5-HIAA Lab Value Level
- SSF 4
 - Mitotic Count

Colon & Rectum NET

Required by CoC and SEER

- SSF 2
 - Clinical Assessment of Regional Lymph Nodes
- SSF 16
 - Serum Chromogranin A (CgA) Lab Value
- - Urinary 5-HIAA Lab Value Level

Not Required by CoC and SEER

- SSF 11
 - Mitotic Count

Small Intestine & Stomach NET

Required by CoC and SEER

- SSF 1 (Stomach only)
 - Clinical Assessment of Regional Lymph Nodes
- - Serum Chromogranin A (CgA) Lab Value
- - Urinary 5-HIAA Lab Value Level

Not Required by CoC and SEER

- SSF 6
 - Mitotic Count

CSv2	
CSVZ	
Questions?	
Quiz	

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• Answers to questions from previous webinars

Thank You!

- Using Geographic Information System Mapping for Spatial Analysis
 - Presented by the NAACCR GIS committee
 - May 6, 2010