



COLLABORATIVE STAGE
DATA COLLECTION SYSTEM

Colon, Rectum, and Appendix

Education & Training Team
Collaborative Stage Data Collection System
Version 2.01

Presentation Outline

- Overview of colon, rectum and appendix
- Summary of changes to colon and rectum schemas
- Appendix schema

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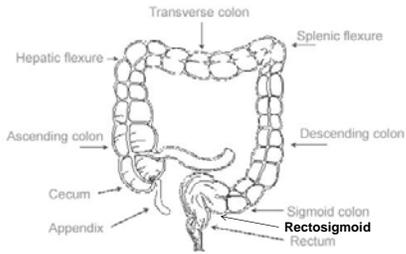




COLLABORATIVE STAGE
DATA COLLECTION SYSTEM

Overview of Colon, Rectum and Appendix

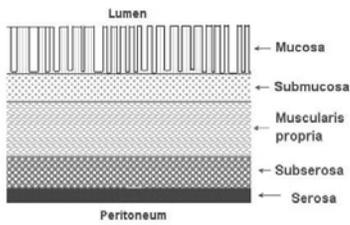
Large Intestine



4 Image source: SEER Training Modules Colorectal Cancer



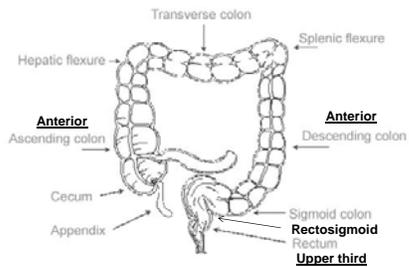
Colorectal Wall



5 Image source: SEER Training Modules Colorectal Cancer



Intraperitoneal Colorectal Subsites



6 Image source: SEER Training Modules Colorectal Cancer



Regional Lymph Nodes

7 Image source: SEER Training Modules Colorectal Cancer

Metastatic Sites

- Large intestine
 - Liver
 - Lung
 - Seeding of other segments of colon, small intestine, or peritoneum
- Mucinous carcinoma of appendix
 - Peritoneal surfaces

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Colorectal Cancer

- 2009 estimates in the United States
 - 146,970 new cases
 - 49,970 deaths
- 2009 estimates in Canada
 - 22,000 new cases
 - 9,100 deaths

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Colorectal Cancer Histology

- 95% - 98% adenocarcinoma
- 2% - 5% other cancers

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 COLLABORATIVE SURVIVAL
DATA COLLECTION SYSTEM

**Summary of Changes for
Colon and Rectum**

Summary of Changes

- Appendix removed from colon schema
- T4 subdivided
- N1 & N2 subdivided
- M1 subdivided

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Summary of Changes

- Satellite peritumoral nodules in pericorectal adipose tissue
 - Code 050 in CS Lymph Nodes
 - Code total number of tumor deposits in SSF4
- Additional SSFs collected

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CS Extension

New and Revised Codes & Definitions

- Code 170
 - Stated T1, NOS
- Code 200
 - Muscularis propria invaded
 - Stated as T2, NOS
- Code 410
 - Stated as T3, NOS

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CS Extension

New and Revised Codes & Definitions

- Code 490
 - Stated as T4, NOS
- Code 500
 - Invasion of/through serosa
 - Stated as 4a, NOS

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**CS Extension
New and Revised Codes & Definitions**

- Code 560: Rectum
 - Stated as T4b, NOS

- Code 690: Colon
 - Stated as T4b, NOS

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**CS Extension
Code Clarification**

- Note 3

- Code 460
 - Tumor is adherent macroscopically only

- Code 570
 - Tumor is adherent microscopically

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**CS Lymph Nodes
New Codes & Definitions**

- Code 050
 - Tumor deposits in subserosa or non-peritonealized pericolic or perirectal tissues without regional nodal metastasis

- Code 410
 - Stated N1a pathologic

- Code 420
 - Stated N1b pathologic

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CS Lymph Nodes New Codes & Definitions

- Code 460
 - Stated N2a pathologic
- Code 470
 - Stated N2b pathologic

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MX Eliminated

- MX has been eliminated from 7th Edition
 - Clinical M0
 - Unless clinical or pathologic evidence of mets
- cM only requires history and physical
- Infer cM0 unless known cM1

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CS Mets at DX - Colon New and Revised Codes & Definitions

- Code 10
 - Obsolete data retained V0200
- Code 15
 - Metastasis to a single distant lymph node chain other than code 08
- Code 20
 - Metastasis to a single distant organ

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**CS Mets at DX - Colon
New and Revised Codes & Definitions**

- Code 22
 - Stated as M1a, NOS
- Code 25
 - Metastasis to more than 1 distant lymph node chain other than code 08
- Code 30
 - Metastases to more than 1 distant organ
 - Stated as M1b, NOS

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**CS Mets at DX - Colon
New and Revised Codes & Definitions**

- Code 35
 - Distant lymph nodes (08 or 15 or 25) + other distant metastases (20 or 30)
- Code 40
 - Obsolete data retained V0200

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**CS Mets at DX - Colon
New and Revised Codes & Definitions**

- Code 50
 - Obsolete data retained V0200
- Code 60
 - Distant metastasis, NOS
 - M1, NOS

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**CS Mets at DX - Rectum
New and Revised Codes & Definitions**

- Code 05
 - Metastasis to a single distant lymph node chain, NOS
- Code 10
 - Obsolete data retained V0200
- Code 11
 - Obsolete data retained V0200

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**CS Mets at DX - Rectum
New and Revised Codes & Definitions**

- Code 12
 - Obsolete data retained V0200
- Code 15
 - Metastasis to a single distant lymph node chain
 - Rectosigmoid: internal iliac (hypogastric); obturator
- Code 20
 - Metastasis to other single distant lymph node chains including external iliac or common iliac

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**CS Mets at DX - Rectum
New and Revised Codes & Definitions**

- Code 25
 - Metastasis to a single distant organ
- Code 27
 - Stated as M1a, NOS
- Code 30
 - Metastasis to more than 1 distant lymph node chain

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CS Mets at DX - Rectum New and Revised Codes & Definitions

- Code 35
 - Distant metastases to more than 1 distant organ
 - Stated as M1b, NOS
- Code 40
 - Obsolete data retained V0200

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CS Mets at DX - Rectum New and Revised Codes & Definitions

- Code 45
 - Distant lymph nodes (05 or 15 or 20) + other distant metastases (25 or 35)
- Code 50
 - Obsolete data retained V0200
- Code 60
 - Distant metastasis, NOS
 - M1, NOS

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Mets at Dx-Metastatic Sites

- 4 new fields
 - Bone excluding marrow
 - Lung excluding pleura and pleural fluid
 - Brain excluding spinal cord and other CNS
 - Liver
- Code 0 when CS Mets at Dx is 00
- Code structure
 - 0 – No
 - 1 – Yes
 - 8 – Not applicable
 - 9 – Unknown

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SSF3 Pre-Operative CEA Lab Value

Code	Description
000	000 value
001	0.1 or less ng/ml
002-979	0.2 - 97.9 ng/ml
980	98.0 or greater ng/ml
988	Obsolete data converted & retained in V0200
997	Test ordered, results not in chart
998	Test not done (test not ordered & not performed)
999	Unknown or no information Not documented in patient record

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SSF4 Tumor Deposits

Code	Description
000	None
001-080	1-80 tumor deposits (code exact number of tumor deposits)
081	Greater than 80 tumor deposits
888	Obsolete data converted V0200 See code 988: Not applicable for this site
988	Obsolete data converted and retained V0200
998	Tumor deposits identified, number unknown
999	Unknown if tumor deposits are present Not documented in patient record

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SSF5 Tumor Regression Grade

Code	Description
000	Tumor regression grade 0 Complete response – no viable cancer cells No residual tumor
010	Tumor regression grade 1 Moderate response – single or small groups of cancer cells
020	Tumor regression grade 2 Minimal response – residual cancer outgrown by fibrosis

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SSF5 Tumor Regression Grade

Code	Description
030	Tumor regression grade 3 Poor response – minimal or no tumor kill; extensive residual cancer
888	Obsolete data converted V0200 See code 988: Not applicable for this site
988	Obsolete data converted and retained V0200
998	No preoperative treatment or no surgery No histologic confirmation
999	Unknown Not documented in patient record

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SSF6 Circumferential Resection Margin

Code	Description
000	Margin is involved with tumor Circumferential resection positive Described as "less than 1 millimeter"
001-009	0.1 – 0.9 mm (code exact size in millimeters)
010-980	1 – 98 mm (code exact size in millimeters)
991	Margins clear, distance from tumor not stated Circumferential resection margin negative

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SSF6 Circumferential Resection Margin

Code	Description
992	Described as "less than 2 mm" or "greater than 1 mm" or "between 1 mm and 2 mm"
993	Described as "less than 3 mm" or "greater than 2 mm" or "between 2 mm and 3 mm"
994	Described as "less than 4 mm" or "greater than 3 mm" or "between 3 mm and 4 mm"
995	Described as "less than 5 mm" or "greater than 4 mm" or "between 4 mm and 5 mm"
996	Described as "greater than 5 mm"

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SSF6 Circumferential Resection Margin

Code	Description
997	No residual tumor identified on specimen
988	Obsolete data converted and retained V0200
998	Patient did not have surgery No histologic confirmation
999	Unknown CRM not mentioned Not documented in patient record

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SSF7 Microsatellite Instability

Code	Description
020	MSI stable; no microsatellite instability
040	MSI unstable low; positive, low
050	MSI unstable high; positive, high
060	MSI unstable, NOS; positive, NOS
997	Test ordered, but results not in chart
998	Test not done (test not ordered & not performed)
999	Unknown or no information Not documented in patient record

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SSF8 Perineural Invasion

Code	Description
000	None; no perineural invasion present
010	Perineural invasion present
998	No histologic examination of primary site
999	Unknown Not documented in patient record

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SSF9 KRAS

Code	Description
010	Abnormal (mutated)
020	Normal (wild type)
997	Test ordered, results not in chart
998	Test not done (test not ordered & not performed)
999	Unknown Not documented in patient record

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SSF10 18q Loss of Heterozygosity

Code	Description
010	Test positive for loss of heterozygosity
020	Test negative for loss of heterozygosity
997	Test ordered, results not in chart
998	Test not done (test not ordered & not performed)
999	Unknown or no information Not documented in patient record

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COLLABORATIVE STAGE
DATA COLLECTION SYSTEM

Appendix

Appendix - Two Schemas

- Carcinoma of appendix
 - Separated into mucinous and non-mucinous types
- Carcinoid tumor of appendix
 - Not reportable
 - Not discussed in this lecture

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Summary of Changes

- Appendix removed from colon schema
- T4 subdivided
- M1 subdivided

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Summary of Changes

- Satellite peritumoral nodules in pericolorectal adipose tissue
 - Code 050 in CS Lymph Nodes
 - Code total number of tumor deposits in SSF4
- Additional SSFs collected

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Extension or Mets at DX

- Intraoperative metastasis
 - Coded in CS Extension when peritoneal involvement limited to right lower quadrant
 - Coded in CS Mets at DX when peritoneal involvement is beyond right lower quadrant
- Distant metastasis outside of the peritoneum
 - Coded in CS Mets at DX

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CS Extension New and Revised Codes & Definitions

- Code 170
 - Stated T1, NOS
- Code 200
 - Muscularis propria invaded
 - Stated as T2, NOS
- Code 410
 - Stated as T3, NOS

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CS Extension New and Revised Codes & Definitions

- Code 490
 - Stated as T4, NOS
- Code 510
 - Mucinous tumors only; peritoneal involvement confined within right lower quadrant
- Code 511
 - Mucinous tumors only; peritoneal involvement confined within right lower quadrant (510) + local extension categorized as T1 (130-170) or (300)

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CS Extension
New and Revised Codes & Definitions

- Code 512
 - Mucinous tumors only: peritoneal involvement confined within right lower quadrant (510) + invasion of muscularis propria or other local extension categorized as T2 (200)
- Code 513
 - Mucinous tumors only: peritoneal involvement confined within right lower quadrant (510)+ local extension categorized as T3 (400-460)

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CS Extension
New and Revised Codes & Definitions

- Code 520
 - Stated as T4a, NOS
- Code 560
 - Stated as T4b, NOS
- Code 670
 - (570-650) + (510)

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CS Extension
New and Revised Codes & Definitions

- Code 675
 - (570-650) + (511)
- Code 680
 - (570-650) + (512)
- Code 690
 - (570-650) + (513)

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CS Extension Code Clarification

- Note 3
- Code 460
 - Tumor is adherent macroscopically only
- Code 570
 - Tumor is adherent microscopically

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CS Lymph Nodes New Codes & Definitions

- Code 050
 - Tumor deposits in subserosa or non-peritonealized pericolic or perirectal tissues without regional nodal metastasis
- Code 200
 - Prececal
 - Retrocecal

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CS Mets at DX New Codes & Definitions

- Code 05
 - Mucinous tumors only: Intraperitoneal metastasis beyond RLQ, including pseudomyxoma peritonei
- Code 07
 - Non-mucinous tumors: Any intraperitoneal spread
- Code 08
 - Superior mesenteric lymph nodes

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**CS Mets at DX
New Codes & Definitions**

- Code 10
 - Distant lymph nodes
- Code 20
 - Mucinous tumors only: Distant lymph nodes (08 or 10) + intraperitoneal metastasis beyond RLQ, including pseudomyxoma peritonei (05)

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**CS Mets at DX
New Codes & Definitions**

- Code 25
 - Non-mucinous tumors only: Distant lymph nodes (08 or 10) + intraperitoneal spread (07)
- Code 40
 - Obsolete data retained V0200
- Code 45
 - Distant metastases except distant lymph nodes (10) or peritoneal spread
 - Carcinomatosis

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**CS Mets at DX
New Codes & Definitions**

- Code 50
 - Distant lymph nodes (10) + other distant metastases (45)
- Code 60
 - Distant metastasis, NOS
 - M1, NOS

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SSF1 Pre-Operative CEA

Code	Description
000	Test not done
010	Positive/elevated
020	Negative/normal; within normal limits
030	Borderline; undetermined whether positive or negative
998	Test ordered, results not in chart
999	Unknown or no information Not documented in patient record

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SSF2 Clinical Assessment Regional Nodes

Code	Description
000	Nodes not clinically evident
100	Clinically N1
200	Clinically N2
400	Clinically positive regional nodes, NOS
999	Unknown if nodes are clinically evident

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SSF3 Pre-Operative CEA Lab Value

Code	Description
000	000 value
001	0.1 or less ng/ml
002-979	0.2 - 97.9 ng/ml
980	98.0 or greater ng/ml
988	Obsolete data converted & retained in V0200
997	Test ordered, results not in chart
998	Test not done (test not ordered & not performed)
999	Unknown or no information Not documented in patient record

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SSF4 Tumor Deposits

Code	Description
000	None
001-080	1-80 tumor deposits (code exact number of tumor deposits)
081	Greater than 80 tumor deposits
888	Obsolete data converted V0200 See code 988: Not applicable for this site
988	Obsolete data converted and retained V0200
998	Tumor deposits identified, number unknown
999	Unknown if tumor deposits are present Not documented in patient record

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SSF7 Microsatellite Instability

Code	Description
020	MSI stable; no microsatellite instability
040	MSI unstable low; positive, low
050	MSI unstable high; positive, high
060	MSI unstable, NOS; positive, NOS
997	MSI test ordered, but results not in chart
998	MSI test not done (test not ordered & not performed)
999	Unknown or no information Not documented in patient record

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SSF10 18q Loss of Heterozygosity

Code	Description
010	Test positive for loss of heterozygosity
020	Test negative for loss of heterozygosity
997	Test ordered, results not in chart
998	Test not done (test not ordered & not performed)
999	Unknown or no information Not documented in patient record

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SSF11 Histopathological Grading

Code	Description
001	For mucinous tumors: low grade For all carcinomas: well differentiated
002	For mucinous tumors: high grade For all carcinomas: moderately differentiated
003	Poorly differentiated
004	Undifferentiated

•Mucinous tumors with codes 8480, 8481, and 8490

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SSF11 Histopathological Grading

Code	Description
998	Patient did not have surgery No histologic confirmation
999	Unknown grade Unknown or no information Not documented in patient record

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SSF12 Pre-operative CA 19-9 Lab Value

Code	Description
000	000 value
001	0.1 or less ng/ml
002-979	0.2 - 97.9 ng/ml
980	98.0 or greater ng/ml
997	Test ordered, results not in chart
998	Test not done (test not ordered & not performed)
999	Unknown or no information Not documented in patient record

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Conclusion

- CSv2 includes an individual schema for carcinoma of appendix
- Major changes to colon and rectum schemas are additional site-specific factors

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Inquiry & Response System

- Submit questions to Inquiry & Response System
 - Allows tracking for educational purposes
 - Provides information for all
- <http://web.facs.org/coc/default.htm>



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Do you have any questions about the information presented?



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Collaborative Stage Data Collection System Web Site

www.cancerstaging.org/cstage

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