

Appendix Table 1: Billing codes for colonoscopy claims in SEER Medicare, 2002-2011

Code	Code Type	Definition
G0105	HCPCS	Colorectal cancer screening; colonoscopy on individual at high risk
G0121	HCPCS	Colorectal cancer screening; colonoscopy on individual not meeting criteria for high risk
44388	CPT	Colonoscopy through stoma; diagnostic, with or without collection of specimen(s) by brushing or washing (separate procedure)
44389	CPT	Colonoscopy through stoma; with biopsy, single or multiple
44390	CPT	Colonoscopy through stoma; with removal of foreign body
44391	CPT	Colonoscopy through stoma; with control of bleeding (e.g., injection, bipolar cautery, unipolar cautery, laser, heater probe, stapler, plasma coagulator)
44392	CPT	Colonoscopy through stoma; with removal of tumor(s), polyp(s) or other lesion(s) by hot biopsy forceps or bipolar cautery
44397	CPT	Colonoscopy through stoma; with transendoscopic stent placement (includes pre-dilation)
45355	CPT	Colonoscopy, rigid or flexible, transabdominal via colostomy, single or multiple
45378	CPT	Colonoscopy, flexible, proximal to splenic flexure; diagnostic, with or without collection of specimen(s) by brushing or washing, with or without colon decompression (separate procedure)
45379	CPT	Colonoscopy, flexible, proximal to splenic flexure, with removal of foreign body
45380	CPT	Colonoscopy, flexible, proximal to splenic flexure, with biopsy, single or multiple
45381	CPT	Colonoscopy, flexible, proximal to splenic flexure, with directed submucosal injection(s), any substance
45382	CPT	Colonoscopy, flexible, proximal to splenic flexure; with control of bleeding (e.g., injection, bipolar cautery, unipolar cautery, laser, heater probe, stapler, plasma coagulator)
45383	CPT	Colonoscopy, flexible, proximal to splenic flexure; with ablation of tumor(s), polyp(s) or other lesion(s) not amenable to removal by hot biopsy forceps, bipolar cautery or snare technique
45385	CPT	Colonoscopy, flexible, proximal to splenic flexure, with removal of tumor(s), polyp(s) or other lesion(s) by snare technique
45386	CPT	Colonoscopy, flexible, proximal to splenic flexure; with dilation by balloon, 1 or more strictures
45387	CPT	Colonoscopy, flexible, proximal to splenic flexure; with transendoscopic stent placement (includes pre-dilation)
45391	CPT	Colonoscopy, flexible, proximal to splenic flexure; with endoscopic ultrasound examination
45392	CPT	Colonoscopy, flexible, proximal to splenic flexure; with transendoscopic ultrasound guided intramural or transmural fine needle aspiration/biopsy(s)
45.22	ICD-9	Endoscopy of large intestine through artificial stoma
45.23	ICD-9	Colonoscopy
45.25	ICD-9	Closed [endoscopic] biopsy of large intestine
45.42	ICD-9	Endoscopic polypectomy of large intestine
45.43	ICD-9	Endoscopic destruction of other lesion or tissue of large intestine

Appendix Table 2: Characteristics of patients who were diagnosed as stage I-III colon cancer between 2002 and 2011 and registered in SEER Medicare who underwent colon resection and survived 3 years from surgery without recurrence

Characteristics	N (%)
Total	28732 (100%)
Age at diagnosis (year)	
65-74	11000 (38%)
75-84	13109 (46%)
85+	4623 (16%)
Gender	
Female	16744 (58%)
Male	11988 (42%)
Year of diagnosis	
2002-2004	10755 (37%)
2005-2007	9816 (34%)
2008-2011	8161 (28%)
Race/ethnicity	
Non-Hispanic white	23951 (83%)
Non-Hispanic black	2150 (7%)
Hispanic	1211 (4%)
Others §	1420 (5%)
Region	
Eastern	6294 (22%)
Midwest	12204 (42%)
Western	10234 (36%)
Neighborhood	
Large metropolitan	14737 (51%)
Metropolitan	8637 (30%)
Non-metro urban/rural	5358 (19%)
Marital	
Single/divorced/widow	12749 (44%)
Married/domestic partner	14953 (52%)
Unknown	1030 (4%)
SES rank	
1	5113 (18%)
2	6134 (21%)
3	4470 (16%)
4	7380 (26%)
5	5633 (20%)
Tumor location	
Right-sided colon†	19410 (68%)
Left-sided colon‡	9332 (32%)
Chemotherapy used	
No	24251 (84%)
Yes	4478 (16%)
Stage	
I	9996 (35%)
II	12337 (43%)
III	6399 (22%)
Comorbidity	
0	15531 (54%)
1	8016 (28%)
2+	5185 (18%)
Number of colonoscopies within 3 year follow-up without recurrence after surgery for colon cancer	
0	7967 (28%)
1	13170 (46%)
2	6287 (22%)
3+	1308 (5%)

§ Others races include Asian/Pacific Islander, American Indian/Alaskan Native, others unspecified.

† Right-sided colon includes cecum, appendix, ascending colon, hepatic flexure, transverse colon, large Intestine.

‡ Left-sided colon includes splenic flexure, descending colon, sigmoid colon. rectosigmoid colon