

Supplemental Digital Content 1. Table with the codes used in defining cohort and variables.

Description	Code source	Codes
<i>Cancer codes</i>		
Colon cancer	PEDSF file	15-22
Adenocarcinoma	ICD-O-3	8140, 8210, 8480, 8481
<i>Sentinel symptoms</i>		
Anemia	ICD-9	280, 280.0, 280.9, 281.9, 285.1, 285.2, 285.22, 285.29, 285.9
Gastrointestinal symptoms		
Abdominal distention		787.3
Change in bowel habit		787.99
Constipation		564.0 , 564.00, 564.01, 564.02, 564.09
Irritable bowel syndrome		564.1
Diarrhea		564.5, 787.91
Large bowel obstruction		560, 560.8, 560.9, 560.89
Abnormal weight loss		783.2, 783.21, 783.0
Asthenia		780.79, 799.3
<i>Staging tests</i>		
Colonoscopy	HCPCS ICD-9	45378, 45380, 45381, 45383 , 45384, 45385, G0105, G0121 45.23, 45.25
Abdominal CT scan	HCPCS ICD-9	74150, 74160, 74170 88.01, 88.02
Pelvic CT scan	HCPCS ICD-9	72192, 72193, 72194 N/A
<i>Treatments</i>		
Colon surgery	HCPCS ICD-9 Betos	44140, 44141, 44143, 44144, 44145, 44146, 44147, 44150, 44151, 44152, 44153, 44155, 44156, 44157, 44158, 44160, 44204, 44205, 44206, 44207, 44208, 44210, 44211, 44212 45.72, 45.73, 45.74, 45.75, 45.76, 45.8, 17.3, 17.31, 17.32, 17.33, 17.34, 17.35, 17.36, 17.37, 17.38, 17.39 P1B

Supplemental Digital Content 1 (continued). Table with the codes used in defining cohort and variables.

Description	Code source	Codes
Radiotherapy	HCPCS	77401-77499, 77750-77799, 77371-77373, G0174, G0251, G0339, G0340.
	ICD-9	92.2, 92.20, 92.21, 92.22, 92.23, 92.24, 92.25, 92.26, 92.27, 92.29, 92.3, 92.30, 92.31, 92.32, 92.33, 92.34, 92.35, 92.36, 92.37, 92.38, 92.39, 92.4, 92.41, V580, V661, V671
	Revenue center	0330, 0333, 0339
Chemotherapy ¹	Betos	P7A
	HCPCS	J9000-J9999**, Q0083-Q0085, J8520, J8521, J8530, J8540, J8560, J8597, J8610, J8999
	ICD-9	9925, V581, V662, V672
	Revenue center	0331, 0332, 0335
<i>Covariates</i>		
Low complexity visits	HCPCS	99201, 99202, 99211, 99212, 99213, 99387, 99397, 99401, 99402, 99403, 99404.
Visits to the emergency department	HCPCS	99281, 99282, 99283, 99284, 99285, 99291, 99292
Clinical evaluation ³	HCPCS	99201, 99202, 99203, 99204, 99205, 99211, 99212, 99213, 99214, 99215, 99217, 99218, 99219, 99220, 99221, 99222, 99223, 99231, 99232, 99233, 99234, 99235, 99236, 99241, 99242, 99243, 99244, 99245, 99251, 99252, 99253, 99254, 99255, 99261, 99262, 99263, 99271, 99272, 99273, 99274, 99275, 99301, 99302, 99303, 99311, 99312, 99313, 99361, 99362
Provider type	Hospital file	<i>Non-profit:</i> variable prov2885, values 01, 02, 03; variable f25, values 1, 2. <i>Proprietary:</i> variable prov2885, value 04; variable f25, values 3-6. <i>Government:</i> variable prov2885, values 05, 06, 07, 08; variable f25, values 7-13

¹ To identify oral capecitabine in the DME file we used the following National Drug Codes: 00004110020, 00004110150, 00004110116, 00004110051, 00004110013, 00004110022, 00004110113, 00004110151.

² Excluding the following codes from this sequence: J9003, J9165, J9175, J9202, J9209, J9212- J9226, J9240, J9295, J9381, J9395.

³ Clinical evaluation consists on any of the following: new outpatient, established outpatient, hospital observation services, new inpatient, established inpatient, observation/inpatient care services, outpatient consultation, inpatient consultation, follow-up inpatient consultation, confirmatory consultation, nursing facility services and team conference.