

Appendix 1. Current Procedural Terminology Codes

Appendectomy Codes					
44955	Appendectomy at time of other procedure				
44970	Laparoscopic appendectomy				

Included Codes					
44180	Laparoscopic removal of intestinal adhesions	58550	Laparoscopic-assisted vaginal hysterectomy, <250g	58670	Laparoscopic fulguration of fallopian tube
49321	Diagnostic laparoscopy with biopsies	58552	Laparoscopic-assisted vaginal hysterectomy with BSO, <250g	58671	Laparoscopic occlusion of fallopian tubes
49322	Diagnostic laparoscopy with drainage of cyst	58553	Laparoscopic-assisted vaginal hysterectomy, >250g	58672	Laparoscopic fimbrioplasty
49329	Diagnostic laparoscopy, unspecified	58554	Laparoscopic-assisted vaginal hysterectomy with BSO, >250g	58673	Laparoscopic fimbrioplasty with salpingostomy
58350	Laparoscopic chromopertubation	58570	Total laparoscopic hysterectomy, <250g	58674	Laparoscopic ablation of uterine fibroids
58541	Laparoscopic supracervical hysterectomy	58571	Total laparoscopic hysterectomy with BS +/-O, <250g	58679	Laparoscopic fallopian tube or ovarian procedure, unspecified
58542	Laparoscopic supracervical hysterectomy with BSO	58572	Total laparoscopic hysterectomy, >250g	59150	Laparoscopic salpingostomy for ectopic pregnancy
58543	Laparoscopic supracervical hysterectomy, >250g	58573	Total laparoscopic hysterectomy with BS +/-O, >250g	59151	Laparoscopic salpingectomy for ectopic pregnancy
58544	Laparoscopic supracervical hysterectomy, with BSO >250g	58578	Laparoscopic procedure uterus, unspecified		
58545	Laparoscopic myomectomy, 1-4, <250g	58660	Laparoscopic removal adnexal adhesions		
58546	Laparoscopic myomectomy, 5+, >250g	58661	Laparoscopic removal of fallopian tube or ovary		
44970	Laparoscopic appendectomy	58662	Laparoscopic removal of ovarian or pelvic mass or cyst		

Excluded Codes					
57280	Laparoscopic vaginal suspensory procedure	58953	Total abdominal hysterectomy, BSO, resection of tumor, omentectomy, pelvic LN, or malignancy	44145	Abdominal colectomy with low anastomosis
57288	Vaginal sling for stress incontinence	58954	Total abdominal hysterectomy, BSO, omentectomy, pelvic LN for malignancy	44160	Abdominal colectomy with ileostomy
58140	Abdominal myomectomy, 1-4, <250g	58956	Total abdominal hysterectomy, BSO, omentectomy, pelvic LN for malignancy	44202	Laparoscopic resection of small intestines
58146	Abdominal myomectomy, 5+, >250g	58957	Abdominal BSO and omentectomy for malignancy, pelvic LN	44205	Laparoscopic colectomy with ileostomy
58150	Total abdominal hysterectomy, +/- BSO	38570	Laparoscopic removal of LN for staging	44206	Laparoscopic colectomy with colostomy
58180	Total abdominal hysterectomy, +/- BSO	38572	Laparoscopic removal of pelvic and para-aortic LN	44207	Laparoscopic colectomy with low anastomosis
58200	Total abdominal hysterectomy, BSO, pelvic LN	38573	Laparoscopic removal of pelvic and para-aortic LN, omentectomy	44208	Laparoscopic colectomy with colostomy
58210	Radical abdominal hysterectomy, BSO, pelvic LN	59514	Cesarean delivery	49000	Exploratory laparotomy
58240	Pelvic exenteration	59515	Cesarean delivery, postpartum	49020	Abdominal drainage of peritoneal abscess
58548	Total laparoscopic hysterectomy, BSO, Pelvic LN	59510	Cesarean delivery, antepartum and postpartum	49203	Abdominal removal/destruction intra-abdominal masses/tumors

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58700	Abdominal removal of tubes and/or ovaries	59618	Cesarean delivery, failed TOLAC, antepartum and postpartum	49204	Abdominal removal/destruction intra-abdominal masses/tumors
58720	Abdominal removal of tubes and/or ovaries	44320	Abdominal colectomy with colostomy	49205	Abdominal removal or destruction intra-abdominal masses
58740	Abdominal removal of adnexal adhesions	44140	Abdominal colectomy with anastomosis	49255	Omentectomy
58805	Abdominal ovarian cyst drainage	44143	Abdominal colectomy with colostomy	11004	Debridement for skin infection
58920	Abdominal partial oophorectomy	44144	Abdominal colectomy with colostomy	11005	Debridement for skin infection
58925	Abdominal ovarian cystectomy	57423	Laparoscopic vaginal suspensory procedure	11006	Debridement for skin infection
58940	Abdominal oophorectomy	57425	Laparoscopic paravaginal defect repair	11008	Removal of mesh for abdominal wall infection
58943	Abdominal BSO for malignancy, pelvic LN	57426	Laparoscopic revision vaginal of vaginal graft	44900	Drainage of appendiceal abscess
58950	Abdominal BSO and omentectomy for malignancy, pelvic LN	51992	Laparoscopic sling operation for stress incontinence	44950	Abdominal appendectomy
58951	Total abdominal hysterectomy, BSO, omentectomy, pelvic LN for malignancy	38562	Staging lymphadenectomy	44960	Appendectomy for ruptured appendix or with appendiceal abscess
58952	Abdominal resection of peritoneal tumors, BSO and omentectomy for malignancy, pelvic LN				

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Appendix 2. Demographic Characteristics in First Propensity-Matched Sensitivity Sample With a Variable

Including Whether or Not Patients Had a Hysterectomy CPT Code

Variable	Propensity matched sample (with Hysterectomy variable)				
	Appendectomy		Without Appendectomy		SMD
	1,760	50%	1,760	50%	
Age (Mean)	36.6	(8.4)	36.1	(8.5)	0.05
Race					
Asian	74	4%	79	4%	-0.01
Black	215	12%	186	11%	0.05
Hispanic	132	8%	125	7%	0.02
White	1118	63%	1170	66%	-0.06
None of the above	221	13%	220	11%	0.04
BMI					
Underweight	37	2%	38	2%	-0.00
Normal	607	35%	645	37%	-0.04
Overweight	462	27%	463	27%	-0.00
Obesity	490	29%	474	28%	0.02
Severe obesity	115	7%	101	6%	0.03
Missing	49		39		0.04
Diabetes	71	4%	54	3%	0.05
Smoker	299	17%	285	16%	0.02
Chronic lung disease	6	<1%	5	<1%	0.01
Hypertension	190	11%	152	9%	0.07
ASA Class					
1	332	19%	334	19%	-0.00
2	1,196	68%	1,226	70%	-0.04
3	222	13%	194	11%	0.05
4	7	<1%	4	<1%	0.03
5	0	0%	0	0%	-
Missing	3		2		0.01
Emergency Surgery	59	3%	48	3%	0.04
Hysterectomy	858	49%	833	47%	0.03

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Appendix 3. Postoperative Outcomes Within 30 Days After Surgery in First Propensity-Matched Sensitivity Sample With a Variable Including Whether or Not Patients Had at Least One Hysterectomy CPT Code

Variable	Propensity matched sample (with Hysterectomy variable)				
	Appendectomy		Without Appendectomy		p-value
	1,760	50%	1,760	50%	
All complication	140	8.0%	98	5.6%	0.005
Surgical site infection	50	2.8%	38	2.2%	0.195
Superficial	28	1.6%	21	1.2%	0.314
Deep	2	0.1%	3	0.2%	>.99
Organ space	20	1.1%	14	0.8%	0.389
Sepsis	11	0.6%	7	0.4%	0.480
Wound disruption	6	0.3%	5	0.3%	>.99
DVT	2	0.1%	2	0.1%	>.99
PE	2	0.1%	1	0.1%	>.99
Stroke	1	0.1%	0	0%	1.000
Blood transfusion	21	1.2%	24	1.4%	0.653
Re-operation	38	2.2%	29	1.6%	0.267
Re-admission	73	4.3%	35	2.1%	<0.001
Missing	70		74		
Operative time (Median: IQR)	115	79-170	113	69-165	0.001
Hospital stay					<0.001
0 days	831	47.2%	908	51.6%	
1 days	708	40.2%	699	39.7%	
2 days	133	7.6%	100	5.7%	
3-7 days	78	4.4%	46	2.6%	
8+ days	10	0.6%	7	0.4%	
Wound Classification					<0.001
Clean	69	3.9%	164	9.3%	
Clean-contaminated	1588	90.2%	1564	88.9%	
Contaminated	103	5.9%	32	1.8%	

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Appendix 4. Demographic Characteristics in Second Propensity Matched Sensitivity Sample

Variable	Propensity matched sample (based on caliper of 0.1)				SMD
	Appendectomy		Without Appendectomy		
	1,729	50%	1,729	50%	
Age (Mean)	36.7	(8.4)	36.4	(8.3)	0.03
Race					
Asian	74	4%	75	4%	-0.00
Black	211	12%	180	10%	0.06
Hispanic	132	8%	126	7%	0.01
White	1095	63%	1127	65%	-0.04
None of the above	217	13%	221	13%	-0.01
BMI					
Underweight	31	2%	19	1%	0.05
Normal	601	35%	640	38%	-0.05
Overweight	461	27%	457	27%	0.01
Obesity	486	29%	469	28%	0.02
Severe obesity	114	7%	100	6%	0.03
Missing	36		44		-0.03
Diabetes	70	4%	47	3%	0.04
Smoker	293	17%	284	16%	0.01
Chronic lung disease	6	<1%	8	<1%	-0.02
Hypertension	188	11%	170	10%	0.03
ASA Class					
1	324	19%	314	18%	0.02
2	1,180	68%	1,217	71%	-0.05
3	218	12%	191	11%	0.05
4	6	<1%	2	<1%	0.04
5	0	0%	0	0%	-
Missing	1		5		-0.10
Emergency Surgery	59	3%	49	3%	0.03

A caliper width of 0.10 was imposed, and 31 patients undergoing appendectomy were excluded, as they could not be matched to any corresponding patient without appendectomy.

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Appendix 5. Postoperative Outcomes Within 30 Days After Surgery in Second Propensity-Matched Sensitivity Sample

Variable	Propensity matched sample (based on caliper of 0.1)				p-value
	Appendectomy		Without Appendectomy		
	1,729	50%	1,729	50%	
All complication	134	7.8%	101	5.8%	0.026
Surgical site infection	47	2.7%	33	1.9%	0.113
Superficial	27	1.6%	14	0.8%	0.041
Deep	2	0.1%	4	0.2%	0.687
Organ space	18	1.0%	15	0.9%	0.600
Sepsis	10	0.6%	11	0.6%	>.99
Wound disruption	5	0.3%	1	0.1%	0.218
DVT	2	0.1%	4	0.2%	0.414
PE	2	0.1%	1	0.1%	>.99
Stroke	1	0.1%	0	0%	1.000
Blood transfusion	21	1.2%	30	1.7%	0.204
Re-operation	33	1.9%	25	1.4%	0.289
Re-admission	69	4.1%	45	2.7%	0.022
Missing	63		61		
Operative time (Median: IQR)	114	79-170	117	76-168	0.283
Hospital stay					0.134
0 days	813	47.0%	826	47.8%	
1 days	697	40.3%	748	43.3%	
2 days	132	7.6%	101	5.8%	
3-7 days	77	4.5%	45	2.6%	
8+ days	10	0.6%	9	0.5%	
Wound Classification					<0.001
Clean	69	4.0%	137	7.9%	
Clean-contaminated	1558	90.1%	1565	90.5%	
Contaminated	102	5.9%	27	1.6%	

A caliper width of 0.10 was imposed, and 31 patients undergoing appendectomy were excluded, as they could not be matched to any corresponding patient without appendectomy.

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