

Incidental Appendectomy in the Elderly Rate Technical Specifications

Inpatient Quality Indicators #24 (IQI #24)

AHRQ Quality Indicators™, Version 4.5, May 2013

Provider-Level Indicator

Type of Score: Rate

Description

Incidental appendectomy discharges per 1,000 hospital discharges with abdominal or pelvic surgery for patients ages 65 years and older. Excludes surgical removal of the colon (colectomy) or pelvic evisceration discharges, appendiceal cancer discharges, and obstetric discharges.

[NOTE: The software provides the rate per hospital discharge. However, common practice reports the measure as per 1,000 discharges. The user must multiply the rate obtained from the software by 1,000 to report specific procedure discharges per 1,000 hospital discharges.]

Numerator

Discharges, among cases meeting the inclusion and exclusion rules for the denominator, with any-listed ICD-9-CM procedure codes for incidental appendectomy.

ICD-9-CM Incidental appendectomy procedure codes¹:

471	INCIDENTAL APPENDECTOMY	4719	OTHER INCID APPENDECTOMY
4711	LAP INCID APPENDECTOMY		

¹The procedure or diagnosis codes are continuously updated. The current list of ICD-9-CM codes is valid for October 2012 through September 2013. Italicized codes are not active in Fiscal Year 2013.

Denominator

Discharges, for patients ages 65 years and older, with any-listed ICD-9-CM procedure codes for abdominal and pelvic surgery.

ICD-9-CM Abdominal and pelvic surgery procedure codes¹:

1711	LAP DIR ING HERN-GRAFT	415	TOTAL SPLENECTOMY
1712	LAP INDIR ING HERN-GRAFT	4193	EXC OF ACCESSORY SPLEEN
1713	LAP ING HERN-GRAFT NOS	4194	SPLEEN TRANSPLANTATION
1721	LAP BIL DIR ING HRN-GRFT	4195	REPAIR OF SPLEEN
1722	LAP BI INDIR ING HRN-GRF	4199	SPLEEN OPERATION NEC
1723	LAP BI DR/IND ING HRN-GR	4240	ESOPHAGECTOMY NOS
1724	LAP BIL ING HERN-GRF NOS	4241	PARTIAL ESOPHAGECTOMY
412	SPLENOTOMY	4242	TOTAL ESOPHAGECTOMY
4133	OPEN SPLEEN BIOPSY	4253	THORAC SM BOWEL INTERPOS
4141	SPLENIC CYST MARSUPIAL	4254	THORAC ESOPHAGOENTER NEC
4142	EXC SPLENIC LESION/TISS	4255	THORAC LG BOWEL INTERPOS
4143	PARTIAL SPLENECTOMY	4256	THORAC ESOPHAGOCOLOS NEC

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4263	STERN SM BOWEL INTERPOS	4551	SM BOWEL SEGMENT ISOLAT
4264	STERN ESOPHAGOENTER NEC	4552	LG BOWEL SEGMENT ISOLAT
4265	STERN LG BOWEL INTERPOS	4561	MULT SEG SM BOWEL EXCIS
4266	STERN ESOPHAGOCOLOS NEC	4562	PART SM BOWEL RESECT NEC
4291	LIGATION ESOPH VARIX	4563	TOTAL REMOVAL SM BOWEL
430	GASTROTOMY	458	<i>TOTAL INTRA-ABDOMINAL COLECTOMY</i>
433	PYLOROMYOTOMY	4590	INTESTINAL ANASTOM NOS
4342	LOCAL GASTR EXCISION NEC	4591	SM-TO-SM BOWEL ANASTOM
4349	LOCAL GASTR DESTRUCT NEC	4592	SM BOWEL-RECT STUMP ANAS
435	PROXIMAL GASTRECTOMY	4593	SMALL-TO-LARGE BOWEL NEC
436	DISTAL GASTRECTOMY	4594	LG-TO-LG BOWEL ANASTOM
437	PART GASTREC W JEJ ANAST	4595	ANAL ANASTOMOSIS
4381	PART GAST W JEJ TRANSPOS	4601	SM BOWEL EXTERIORIZATION
4382	LAP VERTICAL GASTRECTOMY	4603	LG BOWEL EXTERIORIZATION
4389	OPN/OTH PART GASTRECTOMY	4610	COLOSTOMY NOS
4391	TOT GAST W INTES INTERPO	4611	TEMPORARY COLOSTOMY
4399	TOTAL GASTRECTOMY NEC	4613	PERMANENT COLOSTOMY
4400	VAGOTOMY NOS	4614	DELAY OPENING COLOSTOMY
4401	TRUNCAL VAGOTOMY	4620	ILEOSTOMY NOS
4402	HIGHLY SELECT VAGOTOMY	4621	TEMPORARY ILESOSTOMY
4403	SELECTIVE VAGOTOMY NEC	4622	CONTINENT ILEOSTOMY
4411	TRANSABDOMIN GASTROSCOPY	4623	PERMANENT ILEOSTOMY NEC
4415	OPEN GASTRIC BIOPSY	4640	INTEST STOMA REVIS NOS
4421	DILATE PYLORUS, INCISION	4641	SM BOWEL STOMA REVISION
4429	OTHER PYLOROPLASTY	4642	PERICOLST HERNIA REPAIR
4431	HIGH GASTRIC BYPASS	4643	LG BOWEL STOMA REVIS NEC
4438	LAP GASTROENTEROSTOMY	4650	INTEST STOMA CLOSURE NOS
4439	GASTROENTEROSTOMY NEC	4651	SM BOWEL STOMA CLOSURE
4440	SUTURE PEPTIC ULCER NOS	4652	LG BOWEL STOMA CLOSURE
4441	SUT GASTRIC ULCER SITE	4660	INTESTINAL FIXATION NOS
4442	SUTURE DUODEN ULCER SITE	4661	SM BOWEL-ABD WALL FIXAT
445	REVISION GASTRIC ANASTOM	4662	SMALL BOWEL FIXATION NEC
4461	SUTURE GASTRIC LACERAT	4663	LG BOWEL-ABD WALL FIXAT
4463	CLOSE GASTRIC FISTUL NEC	4664	LARGE BOWEL FIXATION NEC
4464	GASTROPEXY	4672	DUODENAL FISTULA CLOSURE
4465	ESOPHAGOGASTROPLASTY	4673	SMALL BOWEL SUTURE NEC
4466	CREAT ESOPHAGASTR SPHINC	4674	CLOSE SM BOWEL FIST NEC
4467	LAP CREAT ESOPH SPHINCT	4675	SUTURE LG BOWEL LACERAT
4468	LAPAROSCOPI GASTROPLASTY	4676	CLOSE LG BOWEL FISTULA
4469	GASTRIC REPAIR NEC	4679	REPAIR OF INTESTINE NEC
4491	LIGATE GASTRIC VARICES	4680	INTRA-AB BOWEL MANIP NOS
4492	INTRAOP GASTRIC MANIPUL	4681	INTRA-ABD SM BOWEL MANIP
4495	LAP GASTRIC RESTRIC PROC	4682	INTRA-ABD LG BOWEL MANIP
4496	LAP REV GAST RESTRI PROC	4691	MYOTOMY OF SIGMOID COLON
4497	LAP REM GAST RESTRI DEV	4692	MYOTOMY OF COLON NEC
4499	GASTRIC OPERATION NEC	4693	REVISE SM BOWEL ANASTOM
4500	INTESTINAL INCISION NOS	4694	REVISE LG BOWEL ANASTOM
4501	DUODENAL INCISION	4697	TRANSPLANT OF INTESTINE
4502	SMALL BOWEL INCISION NEC	4699	INTESTINAL OP NEC
4503	LARGE BOWEL INCISION	4821	TRANSAB PROCTOSIGMOIDOSC
4511	TRANSAB SM BOWEL ENDOSC	4825	OPEN RECTAL BIOPSY
4515	OPEN SMALL BOWEL BIOPSY	4840	PULL-THRU RES RECTUM NOS
4521	TRANSAB LG BOWEL ENDOSC	4841	SOAVE SUBMUC RECT RESECT
4526	OPEN LARGE BOWEL BIOPSY	4842	LAP PULL-THRU RES RECTUM
4531	OTH EXCISE DUODENUM LES	4843	OPN PULL-THRU RES RECTUM
4532	DESTRUCT DUODEN LES NEC	4849	PULL-THRU RECT RESEC NEC
4533	LOCAL EXCIS SM BOWEL NEC	485	<i>ABDOMINOPERINEAL RESECTION OF RECTUM</i>
4534	DESTR SM BOWEL LES NEC	4850	ABDPERNEAL RES RECTM NOS
4541	EXCISE LG INTESTINE LES	4851	LAP ABDPERNEAL RESC REC
4549	DESTRUC LG BOWEL LES NEC	4852	OPN ABDPERNEAL RESC REC
4550	INTEST SEG ISOLAT NOS		

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4859	ABDPERNEAL RESC RECT NEC	5209	PANCREATOTOMY NEC
4871	SUTURE OF RECTAL LACER	5212	OPEN PANCREATIC BIOPSY
4874	RECTORECTOSTOMY	5219	PANCREATIC DX PROC NEC
4875	ABDOMINAL PROCTOPEXY	5222	OTHER DESTRU PANCREA LES
500	HEPATOTOMY	523	PANCREAT CYST MARSUPIALI
5012	OPEN LIVER BIOPSY	524	INT DRAIN PANCREAT CYST
5014	LAPAROSCOPIC LIVER BX	5251	PROXIMAL PANCREATECTOMY
5019	HEPATIC DX PROC NEC	5252	DISTAL PANCREATECTOMY
5021	MARSUPIALIZAT LIVER LES	5253	RAD SUBTOT PANCREATECTOM
5022	PARTIAL HEPATECTOMY	5259	PARTIAL PANCREATECT NEC
5023	OPN ABLTN LIVER LES/TISS	526	TOTAL PANCREATECTOMY
5025	LAP ABLTN LIVER LES/TISS	527	RADICAL PANCREATICODUODENECTOMY
5026	ABLTN LIVER LES/TISS NEC	5280	PANCREAT TRANSPLANT NOS
5029	DESTRUC HEPATIC LES NEC	5281	REIMPLANT PANCREATIC TIS
503	HEPATIC LOBECTOMY	5282	PANCREATIC HOMOTRANSPLAN
504	TOTAL HEPATECTOMY	5283	PANCREATIC HETEROTRANSPL
5051	AUXILIARY LIVER TRANSPL	5292	CANNULATION PANCREA DUC
5059	LIVER TRANSPLANT NEC	5295	PANCREATIC REPAIR NEC
5061	CLOSURE LIVER LACERAT	5296	PANCREATIC ANASTOMOSIS
5069	LIVER REPAIR NEC	5299	PANCREATIC OPERATION NEC
5102	TROCAR CHOLECYSTOSTOMY	5300	UNILAT ING HERN REP NOS
5103	CHOLECYSTOSTOMY NEC	5301	OPN REP DIR ING HERN NEC
5104	CHOLECYSTOTOMY NEC	5302	OPN REP IND ING HERN NEC
5113	OPEN BILIARY TRACT BX	5303	OPN DIR ING HERN-GFT NEC
5119	BILIARY TR DX PROC NEC	5304	OPN IND ING HERN-GFT NEC
5121	OTH PART CHOLECYSTECTOMY	5305	ING HERNIA REP-GFT NOS
5122	CHOLECYSTECTOMY	5310	BILAT ING HERNIA REP NOS
5123	LAPAROSCOPIC CHOLECYSTEC	5311	OPN BIL DIR ING HERN NEC
5124	LAP PART CHOLECYSTECTOMY	5312	OPN BIL IND ING HERN NEC
5131	GB-TO-HEPAT DUCT ANAST	5313	OPN BI DR/IN ING HRN NEC
5132	GB-TO-INTESTINE ANASTOM	5314	OPN BI DR ING HRN-GR NEC
5133	GB-TO-PANCREAS ANASTOM	5315	OP BI IN ING HRN-GRF NEC
5134	GB-TO-STOMACH ANASTOMOS	5316	OP BI DR/IN IG HR-GR NEC
5135	GALLBLADDER ANASTOM NEC	5317	BIL ING HRN REP-GRFT NOS
5136	CHOLEDOCHOENTEROSTOMY	5321	UNIL FEMOR HRN REP-GRFT
5137	HEPATIC DUCT-GI ANASTOM	5329	UNIL FEMOR HERN REP NEC
5139	BILE DUCT ANASTOMOS NEC	5331	BIL FEM HERN REPAIR-GRFT
5141	CDE FOR CALCULUS REMOV	5339	BIL FEM HERN REPAIR NEC
5142	CDE FOR OBSTRUCTION NEC	5341	OPN REP UMB HRN-GRFT NEC
5143	CHOLEDOCHOHEPAT INTUBAT	5342	LAP UMBIL HERNIA-GRAFT
5149	INCIS OBSTR BILE DUC NEC	5343	LAP UMBILICAL HERNIA NEC
5151	COMMON DUCT EXPLORATION	5349	OPEN REP UMBIL HERN NEC
5159	BILE DUCT INCISION NEC	5351	INCISIONAL HERNIA REPAIR
5161	EXCIS CYST DUCT REMNANT	5359	ABD WALL HERN REPAIR NEC
5162	EXCIS AMPULLA OF VATER	5361	OPEN INCIS HERN-GRFT NEC
5163	COMMON DUCT EXCIS NEC	5362	LAP INCIS HERN REPR-GRFT
5169	BILE DUCT EXCISION NEC	5363	LAP HERN ANT ABD-GFT NEC
5171	SIMPLE SUT-COMMON DUCT	5369	OPN HERN ANT ABD-GRF NEC
5172	CHOLEDOCHOPLASTY	537	<i>REPAIR OF DIAPHRAGMATIC HERNIA, ABDOMINAL APPROACH</i>
5179	BILE DUCT REPAIR NEC	5371	LAP ABD REP-DIAPHR HERN
5181	SPHINCTER OF ODDI DILAT	5372	OPN ABD DIAPHRM HERN NEC
5182	PANCREAT SPHINCTEROTOM	5375	ABD REP-DIAPHR HERN NOS
5183	PANCREAT SPHINCTEROPLAS	540	ABDOMINAL WALL INCISION
5189	SPHINCT OF ODDI OP NEC	5411	EXPLORATORY LAPAROTOMY
5191	REPAIR GB LACERATION	5412	REOPEN RECENT LAP SITE
5192	CLOSURE CHOLECYSTOSTOMY	5419	LAPAROTOMY NEC
5193	CLOS BILIARY FISTUL NEC	5421	LAPAROSCOPY
5194	REVIS BILE TRACT ANASTOM	5422	ABDOMINAL WALL BIOPSY
5195	REMOVE BILE DUCT PROSTH	5423	PERITONEAL BIOPSY
5199	BILIARY TRACT OP NEC	5429	ABD REGION DX PROC NEC
5201	CATH DRAIN-PANCREAT CYST		

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543	DESTRUCT ABD WALL LESION	6593	MANUAL RUPT OVARIAN CYST
544	DESTRUCT PERITONEAL TISS	6594	OVARIAN DENERVATION
5451	LAP PERITON ADHESIOLYSIS	6595	OVARIAN TORSION RELEASE
5459	OTH PERITON ADHESIOLYSIS	6599	OVARIAN OPERATION NEC
5461	RECLOSE POST OP DISRUPT	6601	SALPINGOTOMY
5462	DELAYED CLOS ABD WOUND	6602	SALPINGOSTOMY
5463	ABD WALL SUTURE NEC	6611	FALLOPIAN TUBE BIOPSY
5464	PERITONEAL SUTURE	6619	FALLOP TUBE DX PROC NEC
5471	REPAIR OF GASTROSCHISIS	6631	BILAT TUBAL CRUSHING NEC
5472	ABDOMEN WALL REPAIR NEC	6632	BILAT TUBAL DIVISION NEC
5473	PERITONEAL REPAIR NEC	6639	BILAT TUBAL DESTRUCT NEC
5474	OMENTAL REPAIR NEC	664	TOTAL UNILAT SALPINGECT
5475	MESENTERIC REPAIR NEC	6651	REMOVE BOTH FALLOP TUBES
5492	REMOVE FB FROM PERITON	6652	REMOVE SOLITARY FAL TUBE
5493	CREATE CUTANPERITON FIST	6661	DESTROY FALLOP TUBE LES
5494	CREAT PERITONEOVAS SHUNT	6662	REMOV TUBE & ECTOP PREG
5495	PERITONEAL INCISION	6663	BILAT PART SALPINGEC NOS
5651	FORM CUTAN ILEOURETEROST	6669	PARTIAL SALPINGECTOM NEC
5652	REVIS CUTAN ILEOURETEROS	6671	SIMPL SUTURE FALLOP TUBE
5661	FORM CUTAN URETEROSTOMY	6672	SALPINGO-OOPHOROSTOMY
5662	REVIS CUTAN URETEROS NEC	6673	SALPINGO-SALPINGOSTOMY
5671	URIN DIVERSION TO BOWEL	6674	SALPINGO-UTEROSTOMY
5672	REVIS URETEROENTEROSTOMY	6679	FALLOP TUBE REPAIR NEC
5900	RETROPERIT DISSECT NOS	6692	UNILAT FALLOP TUBE DESTR
6501	LAPAROSCOPIC OOPHOROTOMY	6693	IMPL FALLOP TUBE PROSTH
6509	OTHER OOPHOROTOMY	6694	REMOV FALLOP TUBE PROSTH
6512	OVARIAN BIOPSY NEC	6696	FALLOPIAN TUBE DILATION
6521	OVARIAN CYST MARSUPIALIZ	6697	BURY FIMBRIAE IN UTERUS
6522	OVARIAN WEDGE RESECTION	6699	FALLOPIAN TUBE OP NEC
6523	LAP MARSUP OVARIAN CYST	680	HYSTEROTOMY
6524	LAP WEDGE RESECT OVARY	6813	OPEN UTERINE BIOPSY
6525	OTH LAP LOC EXC DEST OVA	6814	OPEN UTERINE LIGAMENT BX
6529	LOCAL DESTR OVA LES NEC	6819	UTERUS/ADNEX DX PROC NEC
6531	LAP UNILAT OOPHORECTOMY	6823	ENDOMETRIAL ABLATION
6539	OTH UNILAT OOPHORECTOMY	6829	UTERINE LES DESTRUCT NEC
6541	LAP UNI SALPINGO-OOPHOR	683	<i>SUBTOTAL ABDOMINAL HYSTERECTOMY</i>
6549	OTH UNI SALPINGO-OOPHOR	6831	LAP SCERVIC HYSTERECTOMY
6551	OTH REMOVE BOTH OVARIES	6839	SUBTOTL ABD HYST NEC/NOS
6552	OTH REMOVE REMAIN OVARY	684	LAP TOTAL ABDOMINAL HYST
6553	LAP REMOVE BOTH OVARIES	6841	LAP TOTAL ABDOMINAL HYST
6554	LAP REMOVE REMAIN OVARY	6849	TOTAL ABD HYST NEC/NOS
6561	OTH REMOVE OVARIES/TUBES	686	<i>RADICAL ABDOMINAL HYSTERECTOMY</i>
6562	OTH REMOVE REM OVA/TUBE	6861	LAP RADICAL ABDOMNL HYST
6563	LAP REMOVE OVARIES/TUBES	6869	RADICAL ABD HYST NEC/NOS
6564	LAP REMOVE REM OVA/TUBE	689	HYSTERECTOMY NEC/NOS
6571	OTH SIMPLE SUTURE OVARY	6919	DESTRUC UTER SUPPORT NEC
6572	OTH REIMPLANT OF OVARY	6921	INTERPOSIT OP UTERIN LIG
6573	OTH SALPINGO-OOPHOROPLAS	6922	UTERINE SUSPENSION NEC
6574	LAP SIMPLE SUTURE OVARY	6923	VAG REPAIR INVERS UTERUS
6575	LAP REIMPLANT OF OVARY	6929	UTERUS/ADNEXA REPAIR NEC
6576	LAP SALPINGO-OOPHOROPLAS	693	PARACERV UTERINE DENERV
6579	REPAIR OF OVARY NEC	6941	SUTURE UTERINE LACERAT
6581	LAP ADHESIOLYS OVA/TUBE	6942	CLOSURE UTERINE FISTULA
6589	ADHESIOLYSIS OVARY/TUBE	6949	UTERINE REPAIR NEC
6592	TRANSPLANTATION OF OVARY	6998	UTERINE SUPPORT OP NEC

¹ The procedure or diagnosis codes are continuously updated. The current list of ICD-9-CM codes is valid for October 2012 through September 2013. Italicized codes are not active in Fiscal Year 2013.

Exclude cases:

- with any-listed ICD-9-CM procedure codes for surgical removal of the colon (colectomy) or pelvic evisceration
- with any-listed ICD-9-CM diagnosis codes for cancer involving or adjacent to the appendix
- MDC 14 (pregnancy, childbirth, and puerperium)
- with missing gender (SEX=missing), age (AGE=missing), quarter (DQTR=missing), year (YEAR=missing) or principal diagnosis (DX1=missing)

ICD-9-CM Surgical removal of the colon (colectomy) or pelvic evisceration procedure codes¹:

1731	LAP MUL SEG RES LG INTES	4574	OPN TRANSV COLON RES NEC
1732	LAPAROSCOPIC CECECTOMY	4575	OPN LFT HEMICOLECTMY NEC
1733	LAP RIGHT HEMICOLECTOMY	4576	OPEN SIGMOIDECTOMY NEC
1734	LAP RES TRANSVERSE COLON	4579	PRT LG INTES EXC NEC/NOS
1735	LAP LEFT HEMICOLECTOMY	<i>458</i>	<i>TOT ABD COLECTMY</i>
1736	LAP SIGMOIDECTOMY	4581	LAP TOT INTR-AB COLECTMY
1739	LAP PT EX LRG INTEST NEC	4582	OP TOT INTR-ABD COLECTMY
4571	OPN MUL SEG LG INTES NEC	4583	TOT ABD COLECTMY NEC/NOS
4572	OPEN CECECTOMY NEC	688	PELVIC EVISCERATION
4573	OPN RT HEMICOLECTOMY NEC		

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ICD-9-CM Cancer involving or adjacent to the appendix diagnosis codes:

1534	MALIGNANT NEOPLASM CECUM	1590	MALIG NEO INTESTINE NOS
1535	MALIGNANT NEO APPENDIX	1598	MAL NEO GI/INTRA-ABD NEC
1536	MALIG NEO ASCEND COLON	1599	MAL NEO GI TRACT ILL-DEF
1538	MALIGNANT NEO COLON NEC	1952	MALIG NEO ABDOMEN
1539	MALIGNANT NEO COLON NOS	1975	SEC MALIG NEO LG BOWEL
1588	MAL NEO PERITONEUM NEC	1976	SEC MAL NEO PERITONEUM
1589	MAL NEO PERITONEUM NOS	20974	SEC NEUROENDO TU-PERITON