

Postoperative Wound Dehiscence Rate Technical Specifications

Patient Safety Indicators 14 (PSI 14) AHRQ Quality Indicators™, Version 4.5a, July 2014 Provider-Level Indicator Type of Score: Rate

Description

Postoperative reclosures of the abdominal wall per 1,000 abdominopelvic surgery discharges for patients ages 18 years and older. Excludes cases in which the abdominal wall reclosure occurs on or before the day of the first abdominopelvic surgery, cases with an immunocompromised state, cases with stays less than two (2) days, and obstetric cases.

[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 events 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 reclosure of postoperative disruption of the abdominal wall.

ICD-9-CM Reclosure of postoperative disruption of the abdominal wall procedure codes:
5461 RECLOSE POST OP DISRUPT

Denominator

Discharges, for patients ages 18 years and older, with any-listed ICD-9-CM procedure codes for abdominopelvic surgery.

ICD-9-CM Abdominopelvic surgery procedure codes¹:

1731	LAP MUL SEG RES LG INTES	3816	ABDOMINAL ENDARTERECTOMY
1732	LAPAROSCOPIC CECECTOMY	3834	AORTA RESECTION & ANAST
1733	LAP RIGHT HEMOLECTOMY	3836	ABD VESSEL RESECT/ANAST
1734	LAP RES TRANSVERSE COLON	3837	ABD VEIN RESEC & ANAST
1735	LAP LEFT HEMICOLEVTOMY	3844	RESECT ABDM AORTA W REPL
1736	LAP SIGMOIDECTOMY	3846	ABD ARTERY RESEC W REPLA
1739	LAP PT EX LRG INTEST NEC	3847	ABD VEIN RESECT W REPLAC
3804	INCISION OF AORTA	3857	ABD VARICS V LIGA-STRIP
3806	ABDOMEN ARTERY INCISION	3864	EXCISION OF AORTA
3807	AMDOMINAL VEIN INCISION	3866	ABDOMINAL ARTERY EXCIS
3814	ENDARTERECTOMY OF AORTA	3867	ABDOMINAL VEIN EXCISION

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3884	OCCLUDE AORTA NEC	4466	CREAT ESOPHAGASTR SPHINC
3886	OCCLUDE ABD ARTERY NEC	4469	GASTRIC REPAIR NEC
3887	OCCLUDE ABD VEIN NEC	4491	LIGATE GASTRIC VARICES
391	INTRA-ABD VENOUS SHUNT	4492	INTRAOP GASTRIC MANIPIL
3924	AORTA-RENAL BYPASS	4499	GASTRIC OPERATION NEC
3925	AORTA-ILIAC-FEMOR BYPASS	4500	INTESTINAL INCISION NOS
3926	INTRA-ABDOMIN SHUNT NEC	4501	DUODENAL INCISION
4052	RAD DISSEC PERIOART NODE	4502	SMALL BOWEL INCISION NEC
4053	RAD DISSECT ILIAC NODES	4503	LARGE BOWEL INCISION
412	SPLENOTOMY	4531	OTH EXCISE DUODENUM LES
4133	OPEN SPLEEN BIOPSY	4532	DESTRUCT DUODEN LES NEC
4141	SPLENIC CYST MARSUPIAL	4533	LOCAL EXCIS SM BOWEL NEC
4142	EXC SPLENIC LESION/TISS	4534	DESTR SM BOWEL LES NEC
4143	PARTIAL SPLENECTOMY	4541	EXCISE LG INTESTINE LES
415	TOTAL SPLENECTOMY	4549	DESTRUCT LG BOWEL LES NEC
4193	EXC OF ACESSORY SPLEEN	4550	INTEST SEG ISOLAT NOS
4194	SPLEEN TRANSPLANTATION	4551	SM BOWEL SEGMENT ISOLAT
4195	REPAIR OF SPLEEN	4552	LG BOWEL SEGMENT ISOLAT
4199	SPLEEN OPERATION NEC	4561	MULT SEG SM BOWEL EXCIS
4240	ESOPHAGECTOMY NOS	4562	PART SM BOWEL RESECT NEC
4241	PARTIAL ESOPHAGECTOMY	4563	TOTAL REMOVAL SM BOWEL
4242	TOTAL ESOPHAGECTOMY	4571	OPN MUL SEG LG INTES NEC
4253	THORAC SM BOWEL INTERPOS	4572	OPEN CECETOMY NEC
4254	THORAC ESOPHAGOENTER NEC	4573	OPN RT HEMOCOLECTOMY NEC
4255	THORAC LG BOWEL INTERPOS	4574	OPN TRANSV COLON RES NEC
4256	THORAC ESOPHAGOCOLOS NEC	4575	OPN LFT HEMOCOLECTMY NEC
4263	STERN SM BOWEL INTERPOS	4576	OPEN SIGMOIDECTOMY NEC
4264	STERN ESOPHAGOENTER NEC	4579	PRT LG INTES EXC NEC/NOS
4265	STERN LG BOWEL INTERPOS	458	<i>TOTAL INTRA-ABDOMINAL COLECTOMY (end 2008)</i>
4266	STERN ESOPHAGOCOLOS NEC	4581	LAP TOT INR-AB COLECTMY
4291	LIGATION ESOPH VARIX	4582	OP TOT INTR-ABD COLECTMY
430	GASTROTOMY	4583	TOT ABD COLECTMY NEC/NOS
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 HEH 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	4620	ILEOSTOMY NOS
4401	TRUNCAL VAGOTOMY	4621	TEMPORARY ILESOSTOMY
4402	HIGHLY SELECTIVE VAGOTOMY	4622	CONTINENT ILEOSTOMY
4403	OTHER SELECTIVE VAGOTOMY	4623	PERMANENT ILEOSTOMY NEC
4411	TRANSABDOMIN GASTROSCOPY	4640	INTEST STOMA REVIS NOS
4415	OPEN GASTRIC BIOPSY	4641	SM BOWEL SOTMA REVISION
4421	DILATE PYLORUS, INCISION	4642	PERICOLOST HERMIA REPAIR
4429	OTHER PYLOROPLASTY	4643	LG BOWEL STOMA REVIS NEC
4431	HIGH GASTRIC BYPASS	4650	INTEST STOMA CLOSURE NOS
4439	GASTROENTEROSTOMY NEC	4651	SM BOWEL STOMA CLOSURE
4440	SUTURE OF PEPTIC ULCER NOS	4652	LG BOWEL STOMA CLOSURE
4441	SUT GASTRUC 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 GASTTRIC FISTUL NEC	4664	LARGE BOWEL FIXATION NEC
4464	GASTROPEXY	4672	DUIDENAL FISTULA CLOSURE
4465	ESOPHAGOGASTROPLASTY		

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4674	CLOS ESM BOWEL FIST NEC	5179	BILE DUCT REPAIR NEC
4676	CLOSE LG BOWEL FISTULA	5181	SPHINCTER OF ODDI DILAT
4680	INTRA-AB BOWEL MANIP NOS	5182	PANCREAT SPHINCTEROTOM
4681	INTRA-ABD SM BOWEL MANIP	5183	PANCREAT SPHINCTEROPLAS
4682	INTRA-ABD LG BOWEL MANIP	5189	SPHINCT OF ODDI OP NEC
4691	MYOTOMY OF SIGMOID COLON	5192	CLOSURE CHOLECYSTOSTOMY
4692	MYOTOMY COLON NEC	5193	CLOS BILIARY FISTUL NEC
4693	RECISE SM BOWEL ANASTOM	5194	RECIS BILE TRACT ANASTOM
4694	RECISE LG BOWEL ANASTOM	5195	REMOVE VILE DUCT PROSTH
4699	INTESTINAL OP NEC	5199	BILIARY TRACT OP NEC
4709	OTHER APPENDECTOMY	5201	CATH DRAIN-PANCREAT CYST
4719	OTHER INCID APPENDECTOMY	5209	PANCREATOTOMY NEC
472	DRAINAPPENDICEAL ABSC	5212	OPEN PANCREATIC BIOPSY
4791	APPENDICOSTOMY	5222	OTHER DESTRY PANCREA LES
4792	CLOSE APPENDICEAL FISTUL	523	PANCREAT CYST MARSUPIALI
4799	APPENDICEAL OPS NEC	524	INT DRAIN PANCREAT CYST
4840	PULL-THRU RECT RESEC NEC	5251	PROXIMAL PANCREATECTOMY
4841	SOAVE SUBMUC RECT RESECT	5252	DISTAL PANCREATECTOMY
4843	OPN PULL-THRU RES RECTUM	5253	RAD SUB PANCREATECTOM
4849	PULL-THRU RECT RESEC NEC	5259	PARTIAL PANCREATECT NEC
4850	ABDPERNEAL RES RECTM NOS	526	TOTAL PANCREATECTOMY
4852	OPN ABDPERNEAL RESC REC	527	RAD PANCREATICODUODENECT
4859	ABDPERNEAL RESC RECT NEC	5280	PANCREAT TRANSPLANT NOS
4875	ABDOMINAL PROCTOPEXY	5281	REIMPLANT PANCREATIC TIS
500	HEPATOTOMY	5282	PANCREATIC HOMOTRANSPLAN
5012	OPEN LIVER BIOPSY	5283	PANCREATIC HETEROTRANSPL
5021	MARSUPIALIZAT LIVER LES	5292	CANNULATION PANCREA DUC
5022	PARTIAL HEPATECTOMY	5295	PANCREATIC REPAIR NEC
5023	OPN ABLTN LIVER LES/TISS	5296	PANCREATIC ANASTOMOSIS
5026	ABLTN LIVER LES/TISS NEC	5299	PANCREATIC OPERATION NEC
5029	DESTRUC HEPATIC LES NEC	5300	UNILAT ING HERN REP NOS
503	HEPATIC LOBECTOMY	5301	OPN REP DIR ING HERN NEC
504	TOTAL HEPATECTOMY	5302	OPN REP IND ING HERN NEC
5051	AUXILIARY LIVER TRANSPL	5303	OPN DIR ING HERN-GFT NEC
5059	LIVER TRANSPLANT NEC	5304	OPN IND ING HERN-GFT NEC
5069	LIVER REPAIR NEC	5305	ING HERNIA REP-GRAFT NOS
5103	CHOLECYSTOSTOMY NEC	5310	BILAT ING HERNIA REP NOS
5104	CHOLECYSTOTOMY NEC	5311	OPN BIL DIR ING HERN NEC
5113	OPEN BILIARY TRACT BX	5312	OPN BIL IND ING HERN NEC
5121	OTH PART CHOLECYSTECTOMY	5313	OPN BU DR/IN IG HR-GR NEC
5122	CHOLECYSTECTOMY	5314	ON BU DR ING HRN-GR NEC
5131	GB-TO-HEPAT DUCT ANAST	5315	OP BU IN ING HRN-GRF NEC
5132	GB-TO-INTESTINE ANASTOM	5316	OP BU DR/IN IG HR-GR NEC
5133	GB-TO-PANCREAS ANASTOM	5317	BIL ING HRN REP-GRFT NOS
5134	GB-TO-STOMACH ANASTOMOS	5321	UNIL FEMOR HERN REPAIR-GRFT
5135	GALLBLADDER ANASTOM NEC	5329	UNIL GEMOR HERN REP NEC
5136	CHOLEDOCHOENTEROSTOMY	5331	BIL FEM HERN REPAIR-GRFT
5137	HEPATIC DUCT-GI ANASTOM	5339	BIL FEM HERN REPAIR NEC
5139	BOLE DUCT ANASTOMOS NEC	5341	OPN REP UMP HRN-GRFT NEC
5141	CDE FOR CALCULUS REMOV	5349	OPEN REP UMBIL HERN NEC
5142	CDE FOR OBSTRUCTION NEC	5351	INCISIONAL HERNIA REPAIR
5143	CHOLEDOCHOHEPAT INTUBAT	5359	ABD WALL HERN REPAIR NEC
5149	INCIS OBSTR BILE DUC NEC	5361	OPEN INCIS HERN-GRFT NEC
5151	COMMON DUCT EXPLORATION	5369	OPN HERN ANT ABDGRF NEC
5159	BILE DUCT INCISION NEC	537	<i>ABD REPAIR-DIAPHR HERNIA (end 2008)</i>
5161	EXCIS CYST DUCT REMNANT	5375	ABD REP-DIAPHR HERN NOS
5162	EXCIS AMPULLA OF VATER	540	ABDOMINAL WALL INCISION
5163	COMMON DUCT EXCIS NEC	5411	EXPLORATORY LAPAROTOMY
5169	BILE DUCT EXCISION NEC	5419	LAPAROTOMY NEC
5171	SIMPLE SUT-COMMON DUCT	5422	ABDOMINAL WALL BIOPSY
5172	CHOLEDOCHOPLASTY	5423	PERITONEAL BIOPSY

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543	DESTRUCT ABD WALL LESION	6073	SEMINAL VESICLE EXCISION
544	DESTRUCT PERITONEAL TISS	6079	SEMINAL VESICLE OP NEC
5459	OTH PERTON ADHESIOLYSIS	6093	REPAIR OF PROSTATE
5463	ABD WALL SUTURE NEC	6509	OTHER OOPHOROTOMY
5464	PERTONEAL SUTURE	6512	OVARIAN BIOPSY NEC
5471	REPAIR OF GASTROSCHISIS	6521	OVARIAN CYST MARSUPIALIZ
5472	ABDOMEN WALL REPAIR NEC	6522	OVARIAN WEDGE RESECTION
5473	PERITONEAL REPAIR NEC	6529	LOCAL DESTRO OVA LES NEC
5474	OMENTAL REPAIR NEC	6539	OTH UNILAT OOPHORECTOMY
5475	MESENTERIC REPAIR NEC	6549	OTH UNI SALPINGO-OOPHOR
5492	REMOVE FB FROM PERITON	6551	OTH REMOVE BOTH OVARIES
5493	CREATE CUANPERITON FIST	6552	OTH REMOVE REMAIN OVARY
5494	CREAT PERITONEOVAS SHUNT	6561	OTH REMOVE OVARIES/TUBES
5495	PERITONEAL INCISION	6562	OTH REMOVE REM OVA/TUBE
5532	OPN ABLTN RENAL LES/TISS	6571	OTH SIMPLE SUTURE OVARY
5535	ABLTN RENAL LES/TISS NEC	6572	OTH REIMPLANT OF OVARY
5551	NEPHROURETERECTOMY	6573	OTH SALPINGO-OOPHOROPLAS
5552	SOLITARY KIDNEY NEPHRECT	6579	REPAIR OF OVARY NEC
5553	REHECTED KIDNEY NEPHRECT	6589	ADHESIOLYSIS OVARY/TUBE
5554	BILATERAL NEPHRECTOMY	6592	TRANSPLANTATION OF OVARY
5561	RENAL AUTOTRANSPLANT	6593	MANUAL RUPT OVARIAN CYST
5569	KIDNEY TRANSPLANT NEC	6594	OVARIAN DENERVATION
557	NEPHROPEXY	6595	OVARIAN TORSION RELEASE
5583	CLOSE RENAL FISTULA NEC	6599	OVARIAN OPERATION NEC
5584	REDUCE RENAL PEDICL TORS	6601	SALPINGOTOMY
5585	SYMPHYSIOTOMY	6602	SALPINGOSTOMY
5586	RENAL ANASTOMOSIS	6631	BILAT TUBAL CRUSHING NEC
5587	CORRECT URETEROPELV JUNC	6632	BILAT TUBAL DIVISION NEC
5591	RENAL DECAPSULATION	6639	BILAT TUBAL DESTRUCT NEC
5597	IMPLANT MECHANIC KIDNEY	664	TOTAL UNILAT SALPINGECT
5598	REMOV MECHANICAL KIDNEY	6651	REMOVE BOTH FALLOP TUBES
5651	FORM CUTAN ILEORETEROST	6652	REMOVE SOLITARY FAL TUBE
5652	REVIS CUTAN ILEOURETEROS	6661	DESTROY FALLOP TUBE LES
5661	FORM CUTAN URESTEROSTOMY	6662	DESTROY FALLOP TUBE LES
5662	REVIS CUTAN URETEROS NEC	6663	BILAT PART SALPINGEC NOS
5671	URIN DIVERSION TO BOWEL	6669	PARTIAL SALPINGECTM NEC
5672	REVIS URETEROENTEROSTOMY	6671	SIMPL SUTURE FALLOP TUBE
5673	NEPHROCYSTANASTOMOSI NOS	6672	SALPINGO-OOPHOROSTOMY
5674	URETERONEOXYSTOSTOMY	6673	SALPINGO-SALPINGOSTOMY
5675	TRANSURETEROURETEROSTOMY	6674	SALPINGO-UTEROSTOMY
5683	URETEROSTOMY CLOSURE	6679	FALLOP TUBE REPAIR NEC
5684	CKISE URETER FISTULA NEC	6692	UNILAT FALLOP TUVE DESTR
5685	URETEROPEXY	6697	BURY FIMBRIAE IN UTERUS
5686	REMOVE URETARAL LIGATURE	680	HYSTEROTOMY
5689	REPAIR OF URETER NEC	6813	OPEN UTERINE BIOPSY
5695	LIGATION OF URETER	6814	OPEN UTERINE LIGAMENT BX
5771	RADICAL CYSTECTOMY	683	<i>SUBTOTAL ABDOMINAL HYSTERECTOMY (end 2003)</i>
5779	TOTAL CYSTECTOMY NEC	6839	SUBTOTL ABD HYST NEC/NOS
5782	CYSTOTOMY CLOSURE	684	<i>TOTAL ABDOMINAL HYSTERECTOMY (invalid 3-digit code)</i>
5787	BLADDER RECONSTRUCTION	6841	LAP TOTAL ABDOMINAL HYST (begin 2006)
5900	RETROPERIT DISSECT NOS	6849	TOTAL ABD HYST NEC/NOS (begin 2006)
5902	PERIREN ADHESIOLYS NEC	686	<i>RADICAL ABDOMINAL HYSTERECTOMY (invalid 3-digit code)</i>
5909	PERIREN/URETER INCIS NEC	6861	LAP RADICAL ABDOMNL HYST (begin 2006)
6012	OPEN PROSTATIC BIOPSY	6869	RADICAL ABD HYST NEC/NOS (begin 2006)
6014	OPEN SEMINAL VESICLE BX	688	PELVIC EVISCERATION
6015	PERIPROSTATIC BIOPSY		
603	SUPRAPUBIC PROTATECTOMY		
604	RETROPUBIC PROSTATECTOMY		
605	RADICAL PROSTATECTOMY		
6061	LOS EXCIS PROSTATIC LES		
6072	SEMINAL VESICLE INCISION		

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6922	UTERINE SUSPENSION NEC	6942	CLOSURE UTERINE FISTULA
693	PARACERB UTERINE DENERV	6949	UTERINE REPAIR NEC
6941	SUTURE UTERINE LACERAT		

[†]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:

- where the procedure for abdominal wall reclosure (see above) occurs on or before the day of the first abdominopelvic surgery procedure (see above)[†]
- with any-listed ICD-9-CM diagnosis codes or any-listed ICD-9-CM procedure codes for immunocompromised state
- with length of stay less than two (2) days
- 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)

See *Patient Safety Indicators Appendices*:

- Appendix I – Immunocompromised State Diagnosis and Procedure Codes

[†] If day of procedure is not available in the input data file, the rate may be slightly lower than if the information was available