

Supplementary table 1. Search

Search date: 6-5-2020

Period: 1-1-2010 t/m 6-5-2020

PubMed: 803 hits

("Proctocolectomy, Restorative"[Mesh] OR restorative proctocolectom*[tiab] OR Ileal pouch anal anastomos*[tiab] OR Ileal pouch[tiab] OR IPAA[tiab]) AND ("Postoperative Complications"[Mesh] OR "Anastomotic Leak"[Mesh] OR anastomotic leak*[tiab] OR anastomosis leak*[tiab] OR pouch failure*[tiab] OR pouch leak*[tiab] OR pouch function*[tiab] OR pouch fistul*[tiab] OR anastomotic complication*[tiab] OR postoperative complication*[tiab] OR pelvic sepsis[tiab] OR long term outcome*[tiab] OR long term complication*[tiab])) AND (("2010/01/01"[Date - Publication] : "3000"[Date - Publication]))

EMBASE (Ovid): 1064 hits

Database(s): Embase Classic+Embase 1947 to 2020 May 06

Search Strategy:

#	Searches	Results
1	proctocolectomy/ or (restorative proctocolectom* or Ileal pouch anal anastomos* or Ileal pouch or IPAA).ti,ab,kw.	8754
2	exp postoperative complication/ or anastomosis leakage/ or (anastomotic leak* or anastomosis leak* or pouch failure* or pouch leak* or pouch function* or pouch fistul* or anastomotic complication* or postoperative complication* or pelvic sepsis or long term outcome* or long term complication*).ti,ab,kw.	812380
3	1 and 2	3115
4	limit 3 to conference abstract status	918
5	3 not 4	2197
6	limit 5 to yr="2010 -Current"	1064

Cochrane Library: 80 hits

ID	Search	Hits
#1	(restorative proctocolectom* or Ileal pouch anal anastomos* or Ileal pouch or IPAA):ti,ab,kw	279
#2	(anastomotic leak* or anastomosis leak* or pouch failure* or pouch leak* or pouch function* or pouch fistul* or anastomotic complication* or postoperative complication* or pelvic sepsis or long term outcome* or long term complication*):ti,ab,kw	99525
#3	#1 and #2 with Cochrane Library publication date Between Jan 2010 and May 2020	80

Supplementary table 2: Criteria for JBI checklist.		
1	Were there clear inclusion criteria?	Low: Patients undergoing primary IPAA. Unclear: not described. High: Other procedures than primary IPAA.
2	Was the condition measured in a standard, reliable way for all participants?	Low: Pouch failure defined as the need for a permanent ileostomy with or without pouch excision. Unclear: Pouch failure not defined. High: Different definition.
3	Were valid methods used for identification of condition for all participants?	Low: Description of methods used for the assessment of reported complications (imaging, endoscopy, re-intervention). Unclear: no/limited description. High: No valid methods used.
4	Did the case series have consecutive inclusion of participants?	Low: Consecutive or all mentioned. Unclear: Consecutive or all missing. High: Selected cases.
5	Did the case series had complete inclusion of participants?	Low: Follow up and/or drop-outs described. High: Missing follow up and/or drop-outs.
6	Was there clear reporting of the demographics of the participants?	Low: Includes age, sex. High: Missing values.
7	Was there clear reporting of clinical information of the participants?	Low: Type of disease, indication of surgery, preoperative medication use. High: Missing values.
8	Were the outcome or follow up results of cases clearly reported?	Low: Pouch related complications defined. Unclear: Undefined pouch related complications.
9	Was there clear reporting of the presenting site(s) demographics information?	Low: Single center or in multicenter described per center. High: Multicenter and not described per center.
10	Was statistical analysis appropriate?	Low: Statistical analysis described. Unclear: not described. High: Inappropriate test used.

Supplementary table 3: procedural stages and pouch type.					
Author	1-stage (%)	Modified-2 stage (%)	2-stage (%)	3-stage (%)	Type of pouch (%)
Carcamo	-	-	31 (26.8)	85 (73.2)	J-pouch 112 (96.5) S-pouch 4 (3.5)
Cataneo	-	-	-	-	J-pouch 176 (100)
Dafnis	-	-	-	-	J-pouch 111 (89.5) K-pouch 13 (10.5)
Die	31 (22.3)	0	94 (67.6)	14 (10.1)	J-pouch 139 (100)
Feinberg	-	-	-	-	J-pouch 3152 (90.9) S-pouch 308 (8.9) W-pouch 1 (0.03) Unknown 7 (0.20)
Hashimoto	-	-	-	-	-
Helavirta	98 (27.8)	121 (34.4)	87 (24.7)	46 (13.1)	J-pouch 352 (100)
Ide	10 (4.3)	0	160 (68.4)	64 (27.4)	-
Ikeuchi	258 (27.3)	0	439 (46.5)	247 (26.1)	J-pouch 944 (100)
Karjalainen	352 (69.0)	39 (7.6)	108 (21.8)	11 (2.2)	J-pouch 510 (100)
Karlbom	-	-	-	-	S-pouch 97 (51.6) J-pouch 89 (47.3) H-pouch 2 (1.1)
Landerholm	-	-	-	-	-
Lee	0	0	157 (74.1)	55 (25.9)	-
Leowardi	0	0	195 (66.3)	99 (33.7)	J-pouch 294 (100)
Lightner	30 (1.6)	0	* Nearly all patients underwent a 2-stage		J-Pouch 1824 (96.8) S-pouch 44 (2.3) W-pouch 17 (0.9)
Lorenzo	15 (8.1)	44 (23.8)	42 (22.7)	84 (45.4)	J-pouch 180 (97.3) S-pouch 2 (1.01) W-Pouch 1 (0.5) H-pouch 2 (1.01)
Mark-Christensen	-	-	-	-	-
McCombie	-	-	-	-	-
Mege	Patients with no temporary fecal diversion were excluded (n=2)		82 (44.3)	103 (55.7)	-
Mennigen	-	-	-	-	J-pouch 122 (100)
Rokke	8 (6.0)	-	76 (56.7)	50 (37.3)	J-pouch 125 (93.3) W-pouch 9 (6.7)
Sahami	151 (24.3)	211 (34.0)	165 (26.6)	94 (15.1)	-
Sampietro	7 (4.7)	5 (3.3)	72(48.0)	66 (44.0)	J-pouch 150 (100)
Tan	0	0	57 (40.1)	85 (59.9)	J-pouch 142 (100)
Tonelli	-	-	-	-	J-pouch 283 (85.0) S-pouch 50 (15.0)
Uchino	-	-	-	-	J-pouch 2376 (100)
Wasmuth	-	-	-	-	-
Wibmer	-	-	-	-	-
Worley	-	-	-	-	J-pouch 3319 W-pouch 665 S-pouch 57 K-pouch 44 Unspecified 998
Zaghiyan	0	0	242 (72.5)	92 (27.5)	-
Zoccali	52 (12.7)	-	204 (49.6)	155 (37.7)	-