

Supplement Material 1. Literature search terms for each key question (KQ)

(1) KQ 1

Ovid MEDLINE(R) 1946 to Present with Daily Update

Search date: 2023. 08. 15

Category	N	Search terms	Search results
P	1	exp Colorectal Neoplasms/ OR (Colorectal OR colon OR colonic OR rectal OR rectum).tw,kw.	515,814
	2	(surger* or operation* or resection* or operative or colectomy).tw,kw.	2,227,928
	3	1 AND 2	113,759
I	4	exp Preoperative Exercise/ OR (Prehabilitat* OR Pre-operative Exercise* OR Preoperative Exercise* OR PREHAB).tw,kw.	1,796
P&I	5	3 AND 4	237

Embase

Search date: 2023. 08. 15

Category	N	Search terms	Search results
P	1	'colorectal tumor'/exp OR (Colorectal OR colon OR colonic OR rectal OR rectum):ab,ti,kw	809,039
	2	(surger* or operation* or resection* or operative or colectomy):ab,ti,kw	3,143,821
	3	#1 AND #2	194,434
I	4	'preoperative exercise'/exp OR (Prehabilitat* OR Pre-operative Exercise* OR 'Preoperative Exercise*' OR PREHAB):ab,ti,kw	3,173
P&I	5	#3 AND #4	391

Cochrane library

Search date: 2023. 08. 15

Category	N	Search terms	Search results
P	1	[mh "Colorectal Neoplasms"] OR (Colorectal OR colon OR colonic OR rectal OR rectum):ab,ti,kw	48,592
	2	(surger* or operation* or resection* or operative or colectomy):ab,ti,kw	310,273
	3	#1 AND #2	17,929
I	4	[mh "Preoperative Exercise"] OR (Prehabilitat* OR Pre-operative Exercise* OR "Preoperative Exercise*" OR PREHAB):ab,ti,kw	1,052
P&I	5	#3 AND #4	166

KoreaMed

Category	N	Search terms	Search results
P	1	("Colorectal Neoplasms"[MH]) OR ("Colorectal"[ALL] OR "colon"[ALL] OR "colonic"[ALL] OR "rectal"[ALL] OR "rectum"[ALL])	9,694
	2	("surgery"[ALL] or "operation"[ALL] or "resection"[ALL] or "operative"[ALL] or "colectomy"[ALL])	95,202
	3	1 AND 2	4,735
I	4	("Preoperative Exercise"[MH]) OR ("Prehabilitation"[ALL] OR "Preoperative Exercise"[ALL] OR "PREHAB"[ALL])	8
P&I	5	3 AND 4	1

(2) KQ 2

Ovid MEDLINE(R) 1946 to Present with Daily Update

Search date: 2023. 08. 15

Category	N	Search terms	Search results
P	1	exp Colorectal Neoplasms/ OR (Colorectal OR colon OR colonic OR rectal OR rectum).tw,kw.	515,814
	2	(surger* or operation* or resection* or operative or colectomy).tw,kw.	2,227,928
	3	1 AND 2	113,759
I	4	exp Enteral Nutrition/ OR (oral nutrition* support* OR nutrition* support* OR oral nutrition* supple* OR enteral immunonutrition* or Immunonutrition or Immunonutrition Diet* or enteral feeding or enteral nutrition* or enteral immunonutrition or immuno-enhancing diet or oral nutritional supplementation or oral supplements or oral dietary supplements or protein supplementation or prehabilitation).tw,kw.	39,081
	5	exp Preoperative Care/ OR (pre-operat* OR preoperat* OR perioperat* OR perioperat*).tw,kw	532,380
	6	4 AND 5	2,469
P&I	7	3 AND 6	225

Embase

Search date: 2023. 08. 15

Category	N	Search terms	Search results
P	1	'colorectal tumor'/exp OR (Colorectal OR colon OR colonic OR rectal OR rectum):ab,ti,kw	809,025
	2	(surger* or operation* or resection* or operative or colectomy):ab,ti,kw	3,143,821
	3	#1 AND #2	194,430
I	4	'enteric feeding'/exp OR ('oral nutrition* support*' OR 'nutrition* support*' OR 'oral nutrition* supple*' OR 'enteral immunonutrition*' or Immunonutrition or 'Immunonutrition Diet*' or 'enteral feeding' or 'enteral nutrition*' or 'enteral immunonutrition' or 'immuno-enhancing diet' or 'oral nutritional supplementation' or 'oral supplements' or 'oral dietary supplements' or 'protein supplementation prehabilitation'):ab,ti,kw	63,787
	5	'preoperative care'/exp OR (pre-operat* OR preoperat* OR perioperat* OR perioperat*):ab,ti,kw	730,376
	6	#4 AND #5	3,981
P&I	7	#3 AND #6	409

Cochrane library

Search date: 2023. 08. 15

Category	N	Search terms	Search results
P	1	[mh "Colorectal Neoplasms"] OR (Colorectal OR colon OR colonic OR rectal OR rectum):ab,ti,kw	48,592
	2	(surger* or operation* or resection* or operative or colectomy):ab,ti,kw	310,273
	3	#1 AND #2	17,929
I	4	[mh "Enteral Nutrition"] OR ("oral nutrition* support*" OR "nutrition* support*" OR "oral nutrition* supple*" OR "enteral immunonutrition*" or Immunonutrition or "Immunonutrition Diet*" or "enteral feeding" or "enteral nutrition*" or "enteral immunonutrition" or "immuno-enhancing diet" or "oral nutritional supplementation" or "oral supplements" or "oral dietary supplements" or "protein supplementation prehabilitation"):ab,ti,kw	6,841
	5	[mh "Preoperative Care"] OR (pre-operat* OR preoperat* OR perioperat* OR perioperat*):ab,ti,kw	73,018
	6	#4 AND #5	693

P&I	7	#3 AND #6	113
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KoreaMed

Category	N	Search terms	Search results
P	1	("Colorectal Neoplasms"[MH]) OR ("Colorectal"[ALL] OR "colon"[ALL] OR "colonic"[ALL] OR "rectal"[ALL] OR "rectum"[ALL])	9,694
	2	("surgery"[ALL] or "operation"[ALL] or "resection"[ALL] or "operative"[ALL] or "colectomy"[ALL])	95,202
	3	1 AND 2	4,735
I	4	("Enteral Nutrition"[MH]) OR ("oral nutrition support"[ALL] OR "nutrition support"[ALL] OR "oral nutrition supplement"[ALL] OR "enteral immunonutrition"[ALL] or "Immunonutrition"[ALL] or "Immunonutrition Diet"[ALL] or "enteral feeding"[ALL] or "enteral nutrition"[ALL] or "enteral immunonutrition"[ALL] or "immuno-enhancing diet"[ALL] or "oral nutritional supplementation"[ALL] or "oral supplements"[ALL] or "oral dietary supplements"[ALL] or "protein supplementation prehabilitation"[ALL])	879
	5	("Preoperative Care"[MH]) OR ("pre-operative"[ALL] OR "preoperative"[ALL] OR "peri-operative"[ALL] OR "perioperative"[ALL])	14,106
	6	4 AND 5	33
P&I	7	3 AND 6	3

(3) KQ 3

Ovid MEDLINE(R) 1946 to Present with Daily Update

Search date: 2023. 08. 15

Category	N	Search terms	Search results
P	1	exp Colorectal Neoplasms/ OR (Colorectal OR colon OR colonic OR rectal OR rectum).tw,kw.	515,814
	2	((stomach OR gastric OR liver OR hepatic OR biliary OR hepatobiliary OR pancreatic OR duodenal or abdominal or gastrointestinal) AND (surger* or operation* or resection* or operative)) OR (gastrectomy OR colectomy OR hepatectomy OR pancreaticoduodenectomy)).tw,kw.	359,130
	3	1 OR 2	830,967

	4	exp "Postoperative Nausea and Vomiting"/ OR exp Postoperative Complications/ OR (nausea* or nauseous* or inappeten* or PONV or emet* or vomit* or emesis).tw,kw.	720,604
	5	exp Anesthesia Recovery Period/ OR (an?esth* or postoperat* or post operat* or postsurg* or post surg* or ((after or following) adj2 (surg* or operat*))).tw,kw.	1,394,308
	6	4 AND 5	284,434
I	7	Antiemetics/ OR (antiemesis or anti-emesis or antiemetic* or anti-emetic* or antiemetogenic or dexamethasone or 5-HT3 receptor antagonists or 5-hydroxytryptamine 3 receptor antagonists or ondansetron or ramosetron or granisetron or tropisetron).tw,kw.	82,205
P&I	8	3 AND 6 AND 7	539

Embase

Search date: 2023. 08. 15

Category	N	Search terms	Search results
	1	'colorectal tumor'/exp OR (Colorectal OR colon OR colonic OR rectal OR rectum):ab,ti,kw	809,039
	2	((stomach OR gastric OR liver OR hepatic OR biliary OR hepatobiliary OR pancreatic OR duodenal or abdominal or gastrointestinal) AND (surger* or operation* or resection* or operative)) OR (gastrectomy OR colectomy OR hepatectomy OR pancreaticoduodenectomy)):ab,ti,kw	574,949
P	3	#1 OR #2	1,304,158
	4	'postoperative nausea and vomiting'/exp OR 'postoperative complication'/exp OR (nausea* or nauseous* or inappeten* or PONV or emet* or vomit* or emesis):ab,ti,kw	1,062,567
	5	'anesthetic recovery'/exp OR (an?esth* or postoperat* or 'post operat*' or postsurg* or 'post surg*' or ((after or following) NEAR/2 (surg* or operat*)):ab,ti,kw	1,597,527
	6	#4 AND #5	415,018
I	7	'antiemetic agent'/exp OR (antiemesis or anti-emesis or antiemetic* or anti-emetic* or antiemetogenic or dexamethasone or '5-HT3 receptor antagonists' or '5-hydroxytryptamine 3 receptor antagonists' or ondansetron or ramosetron or granisetron or tropisetron):ab,ti,kw	311,875
P&I	8	#3 AND #6 AND #7	2,244
Additional	9	#8 AND ('article'/it OR 'article in press'/it OR 'review'/it OR 'short survey'/it)	1,786

Search date: 2023. 08. 15

Category	N	Search terms	Search results
P	1	[mh "Colorectal Neoplasms"] OR (Colorectal OR colon OR colonic OR rectal OR rectum):ab,ti,kw	48,592
	2	((stomach OR gastric OR liver OR hepatic OR biliary OR hepatobiliary OR pancreatic OR duodenal or abdominal or gastrointestinal) AND (surger* or operation* or resection* or operative)) OR (gastrectomy OR colectomy OR hepatectomy OR pancreaticoduodenectomy):ab,ti,kw	54,347
	3	#1 OR #2	95,935
	4	[mh "Postoperative Nausea and Vomiting"] OR [mh "Postoperative Complications"] OR (nausea* or nauseous* or inappeten* or PONV or emet* or vomit* or emesis):ab,ti,kw	108,893
	5	[mh "Anesthesia Recovery Period"] OR (an?esth* or postoperat* or "post operat*" or postsurg* or "post surg*" or ((after or following) NEAR/2 (surg* or operat*)):ab,ti,kw	240,373
	6	#4 AND #5	61,268
I	7	[mh "Antiemetics"] OR (antiemesis or anti-emesis or antiemetic* or anti-emetic* or antiemetogenic or dexamethasone or "5-HT3 receptor antagonists" or "5-hydroxytryptamine 3 receptor antagonists" or ondansetron or ramosetron or granisetron or tropisetron):ab,ti,kw	22,615
P&I	8	#3 AND #6 AND #7	1,058

KoreaMed

Category	N	Search terms	Search results
P	1	("Colorectal Neoplasms"[MH]) OR ("Colorectal"[ALL] OR "colon"[ALL] OR "colonic"[ALL] OR "rectal"[ALL] OR "rectum"[ALL])	9,694

	2	(("stomach"[ALL] OR "gastric"[ALL] OR "liver"[ALL] OR "hepatic"[ALL] OR "biliary"[ALL] OR "hepatobiliary"[ALL] OR "pancreatic"[ALL] OR "duodenal"[ALL] or "abdominal"[ALL] or "gastrointestinal"[ALL]) AND ("surgery"[ALL] or "operation"[ALL] or "resection"[ALL] or "operative"[ALL])) OR ("gastrectomy"[ALL] OR "colectomy"[ALL] OR "hepatectomy"[ALL] OR "pancreaticoduodenectomy"[ALL])	17,185
	3	1 OR 2	24,803
	4	("Postoperative Nausea and Vomiting"[MH]) OR ("Postoperative Complications"[MH]) OR ("nausea"[ALL] or "nauseous"[ALL] or "inappotent"[ALL] or "PONV"[ALL] or "emet"[ALL] or "vomit"[ALL] or "emesis"[ALL])	6,194
	5	("Anesthesia Recovery Period"[MH]) OR ("anesthesia"[ALL] or "postoperative"[ALL] or "post operative"[ALL] or "postsurg"[ALL] or "post surg"[ALL])	30,267
	6	4 AND 5	4,349
I	7	("Antiemetics"[MH]) OR ("antiemesis"[ALL] or "anti-emesis"[ALL] or "antiemetic"[ALL] or "anti-emetic"[ALL] or "antiemetogenic"[ALL] or "dexamethasone"[ALL] or "5-HT3 receptor antagonists"[ALL] or "5-hydroxytryptamine 3 receptor antagonists"[ALL] or "ondansetron"[ALL] or ramosetron"[ALL] or "granisetron"[ALL] or "tropisetron"[ALL])	1,198
P&I	8	3 AND 6 AND 7	20

(4) KQ 4

Ovid MEDLINE(R) 1946 to Present with Daily Update

Search date: 2023. 08. 15

Category	N	Search terms	Search results
P	1	exp Colorectal Neoplasms/ OR (Colorectal OR colon OR colonic OR rectal OR rectum).tw,kw.	515,814
	2	(surger* or operation* or resection* or operative or colectomy).tw,kw.	2,222,928
	3	1 AND 2	113,759
I	4	(bowel prep* AND (antibiotic* or Anti Bacterial Agent* or Antibacterial Agent*)).tw,kw.	524
	5	exp Preoperative Care/ OR (pre-operat* or preoperat*).tw,kw	434,744
	6	4 AND 5	347

P&I	7	3 AND 6	256
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Embase

Search date: 2023. 08. 15

Category	N	Search terms	Search results
P	1	'colorectal tumor'/exp OR (Colorectal OR colon OR colonic OR rectal OR rectum):ab,ti,kw	809,025
	2	(surger* or operation* or resection* or operative or colectomy):ab,ti,kw	3,143,821
	3	#1 AND #2	194,430
I	4	('bowel prep*' AND (antibiotic* or 'Anti Bacterial Agent*' or 'Antibacterial Agent*')):ab,ti,kw	906
	5	'preoperative care'/exp OR (pre-operat* or preoperat*):ab,ti,kw	586,953
	6	#4 AND #5	467
P&I	7	#3 AND #6	343

Cochrane library

Search date: 2023. 08. 15

Category	N	Search terms	Search results
P	1	[mh "Colorectal Neoplasms"] OR (Colorectal OR colon OR colonic OR rectal OR rectum):ab,ti,kw	48,592
	2	(surger* or operation* or resection* or operative or colectomy):ab,ti,kw	310,273
	3	#1 AND #2	17,929
I	4	("bowel prep*" AND (antibiotic* or "Anti Bacterial Agent*" or "Antibacterial Agent*")):ab,ti,kw	9
	5	[mh "preoperative care"] OR (pre-operat* or preoperat*):ab,ti,kw	54,529
	6	#4 AND #5	2
P&I	7	#3 AND #6	2

KoreaMed

Search date: 2023. 08. 15

Category	N	Search terms	Search results
P	1	("Colorectal Neoplasms"[MH]) OR ("Colorectal"[ALL] OR "colon"[ALL] OR "colonic"[ALL] OR "rectal"[ALL] OR "rectum"[ALL])	9,694
	2	("surgery"[ALL] or "operation"[ALL] or "resection"[ALL] or	95,202

		"operative"[ALL] or "colectomy"[ALL])	
	3	1 AND 2	4,735
I	4	("bowel prep"[ALL] AND ("antibiotic"[ALL] or "Anti Bacterial Agent*"[ALL] or "Antibacterial Agent"[ALL]))	3
	5	("preoperative care"[MH]) OR ("pre-operative"[ALL] or "preoperative"[ALL])	12,260
	6	4 AND 5	1
P&I	7	3 AND 6	1

(5) KQ 5

Ovid MEDLINE(R) 1946 to Present with Daily Update

Search date: 2024. 4.15.

Category	N	Search terms	Search results
P	1	exp Colorectal Neoplasms/ OR (Colorectal OR colon OR colonic OR rectal OR rectum or (low* adj3 (abdom* or gastrointestinal or intestinal))).tw,kw.	548666
	2	(surger* or operation* or resection* or operative or colectomy).tw,kw.	2311169
	3	1 AND 2	122747
I	4	exp Dietary Carbohydrates/ or (oral carbohydrat* or pre* carbohydrat* or carbohydrat* drink*).tw,kw.	104324
P&I	5	3 AND 4	268
Additional		limit 5 to yr="2021 -Current"	34

* The search was conducted based on the study by Lu et al. (1). The quality of the systematic review by Lu et al. was assessed using the AMSTAR 2 tool and was rated as high.

(6) KQ 6

Ovid MEDLINE(R) 1946 to Present with Daily Update

Search date: 2024. 4.15.

Category	N	Search terms	Search results
P	1	exp Colorectal Neoplasms/ OR (Colorectal OR colon OR colonic OR rectal OR rectum or (low* adj3 (abdom* or gastrointestinal or intestinal))).tw,kw.	548666
	2	(surger* or operation* or resection* or operative or colectomy).tw,kw.	2311169
	3	1 AND 2	122747

I	4	exp Fluid Therapy/ or (goal-directed fluid therapy OR flow-directed fluid therapy OR conventional fluid therapy OR fluid therapy or Rehydration).tw,kw.	31455
P&I	5	3 AND 4	297
Additional	6	limit 5 to yr="2022 -Current"	21

* The search was conducted based on the studies by Hoang et al. (2) and Rollins et al. (3). The quality of the systematic reviews was assessed using the AMSTAR 2 tool, with the study by Hoang et al. rated as low, and the study by Rollins et al. rated as high.

(7) KQ 7

Ovid MEDLINE(R) 1946 to Present with Daily Update

Search date: 2023. 08. 15

Category	N	Search terms	Search results
P	1	exp Colorectal Neoplasms/ or (Colorectal or colon or colonic or rectal or rectum or intra-abdominal or pelvic or intraperitoneal or extraperitoneal).tw,kw.	738,710
	2	(surger* or operation* or resection* or operative or colectomy).tw,kw.	2,227,928
	3	1 AND 2	169,083
I	4	((Prophylactic adj4 Drain*) or ((peri-operat* or perioperat* or surger* or operat* or postoperat* or post-operat* or following) adj4 drain*)).tw,kw.	14,177
P&I	5	3 AND 4	1,042

Embase

Search date: 2023. 08. 15

Category	N	Search terms	Search results
P	1	'colorectal tumor'/exp OR (Colorectal OR colon OR colonic OR rectal OR rectum or intra-abdominal or pelvic or intraperitoneal or extraperitoneal):ab,ti,kw	1,134,772
	2	(surger* or operation* or resection* or operative or colectomy):ab,ti,kw	3,143,821
	3	#1 AND #2	288,836
I	4	((Prophylactic NEAR/4 Drain*) or ((peri-operat* or perioperat* or surger* or operat* or postoperat* or post-operat* or following) NEAR/4 drain*)):ab,ti,kw	20,504
P&I	5	#3 AND #4	1,936

Cochrane library

Search date: 2023. 08. 15

Category	N	Search terms	Search results
P	1	[mh "colorectal tumor"] OR (Colorectal OR colon OR colonic OR rectal OR rectum or intra-abdominal or pelvic or intraperitoneal or extraperitoneal):ab,ti,kw	70,261
	2	(surger* or operation* or resection* or operative or colectomy):ab,ti,kw	310,273
	3	#1 AND #2	26,931
I	4	((Prophylactic NEAR/4 Drain*) or ((peri-operat* or perioperat* or surger* or operat* or postoperat* or post-operat* or following) NEAR/4 drain*)):ab,ti,kw	3,451
P&I	5	#3 AND #4	298

KoreaMed

Search date: 2023. 08. 15

Category	N	Search terms	Search results
P	1	("Colorectal Neoplasms"[MH]) OR ("Colorectal"[ALL] OR "colon"[ALL] OR "colonic"[ALL] OR "rectal"[ALL] OR "rectum"[ALL] OR "intra-abdominal"[ALL] or "pelvic"[ALL] or "intraperitoneal"[ALL] or "extraperitoneal"[ALL])	15,168
	2	("surgery"[ALL] or "operation"[ALL] or "resection"[ALL] or "operative"[ALL] or "colectomy"[ALL])	95,202
	3	1 AND 2	7,131
I	4	((("Prophylactic"[ALL] AND "Drain"[ALL]) or (("peri-operative"[ALL] or "perioperative"[ALL] or "surgery"[ALL] or "operative"[ALL] or "postoperative"[ALL] or "post-operative"[ALL] or "following"[ALL]) AND "drain"[ALL]))	368
P&I	5	3 AND 4	35

(8) KQ 8

Ovid MEDLINE(R) 1946 to Present with Daily Update

Search date: 2023. 08. 15

Category	N	Search terms	Search results
P	1	exp Colorectal Neoplasms/ OR (Colorectal OR colon OR colonic OR rectal OR rectum).tw,kw.	515,814
	2	(surger* or operation* or resection* or operative or	2,227,928

		colectomy).tw,kw.	
	3	1 AND 2	113,759
I	4	exp Intubation, Gastrointestinal/ OR ((Gastrointestinal or nasogastric) adj3 (Intubation* OR tube OR decompress* or drain*)).tw,kw.	14,923
P&I	5	3 AND 4	402

Embase

Search date: 2023. 08. 15

Category	N	Search terms	Search results
P	1	'colorectal tumor'/exp OR (Colorectal OR colon OR colonic OR rectal OR rectum):ab,ti,kw	809,025
	2	(surger* or operation* or resection* or operative or colectomy):ab,ti,kw	3,143,821
	3	#1 AND #2	194,430
I	4	'digestive tract intubation'/exp OR ((Gastrointestinal or nasogastric) NEAR/3 (Intubation* OR tube OR decompress* or drain*)):ab,ti,kw	18,282
P&I	5	#3 AND #4	804

Cochrane library

Search date: 2023. 08. 15

Category	N	Search terms	Search results
P	1	[mh "Colorectal Neoplasms"] OR (Colorectal OR colon OR colonic OR rectal OR rectum):ab,ti,kw	48,592
	2	(surger* or operation* or resection* or operative or colectomy):ab,ti,kw	310,273
	3	#1 AND #2	17,929
I	4	[mh "Intubation, Gastrointestinal"] OR ((Gastrointestinal or nasogastric) NEAR/3 (Intubation* OR tube OR decompress* or drain*)):ab,ti,kw	2,811
P&I	5	#3 AND #4	178

KoreaMed

Search date: 2023. 08. 15

Category	N	Search terms	Search results

P	1	("Colorectal Neoplasms"[MH]) OR ("Colorectal"[ALL] OR "colon"[ALL] OR "colonic"[ALL] OR "rectal"[ALL] OR "rectum"[ALL])	9,694
	2	("surgery"[ALL] or "operation"[ALL] or "resection"[ALL] or "operative"[ALL] or "colectomy"[ALL])	95,202
	3	1 AND 2	4,735
I	4	("Intubation, Gastrointestinal"[ALL]) OR ((("Gastrointestinal"[ALL] or "nasogastric"[ALL]) AND ("Intubation"[ALL] OR "tube"[ALL] OR "decompress"[ALL] or "drain"[ALL]))	437
P&I	5	3 AND 4	23

(9) KQ 9

Ovid MEDLINE(R) 1946 to Present with Daily Update

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Category	N	Search terms	Search results
P	1	exp Colorectal Neoplasms/ OR (Colorectal OR colon OR colonic OR rectal OR rectum or (low* adj3 (abdom* or gastrointestinal or intestinal))).tw,kw.	514,650
	2	(surger* or operation* or resection* or operative or colectomy).tw,kw.	2,222,492
	3	1 AND 2	113,518
I	4	exp Nerve Block/ or (transversus abdom* plane block OR nerve block* OR TAP block*).tw,kw.	34235
P&I	5	3 AND 4	421
Additional	6	limit 5 to yr="2020 -Current"	138

* The search was conducted based on the study by Hamid et al. (4). The quality of the systematic review by Hamid et al. was assessed using the AMSTAR 2 tool and was rated as moderate

(10) KQ 10

Ovid MEDLINE(R) 1946 to Present with Daily Update

Search date: 2023. 08. 16

Category	N	Search terms	Search results
P	1	exp Colorectal Neoplasms/ OR (Colorectal OR colon OR colonic OR rectal OR rectum).tw,kw.	515,814
	2	((abdominal OR gastrointestinal OR pelvic) AND (surger* or	193,139

		operation* or resection* or operative)) OR colectomy).tw,kw.	
	3	1 AND 2	33,574
I	4	(Thromboprophylaxis or (antithrombotic* adj3 (prophylaxis or prevent*))).tw,kw.	7,324
P&I	5	3 AND 4	27

Embase

Search date: 2023. 08. 16

Category	N	Search terms	Search results
P	1	'colorectal tumor'/exp OR (Colorectal OR colon OR colonic OR rectal OR rectum):ab,ti,kw	809,250
	2	(surger* or operation* or resection* or operative or colectomy):ab,ti,kw	3,144,428
	3	#1 AND #2	194,476
I	4	(Thromboprophylaxis or (antithrombotic* NEAR/3 (prophylaxis or prevent*)):ab,ti,kw	12,513
P&I	5	#3 AND #4	220

Cochrane library

Search date: 2023. 08. 16

Category	N	Search terms	Search results
P	1	[mh "Colorectal Neoplasms"] OR (Colorectal OR colon OR colonic OR rectal OR rectum):ab,ti,kw	48,592
	2	(surger* or operation* or resection* or operative or colectomy):ab,ti,kw	310,273
	3	#1 AND #2	17,929
I	4	(Thromboprophylaxis or (antithrombotic* NEAR/3 (prophylaxis or prevent*)):ab,ti,kw	1,527
P&I	5	#3 AND #4	37

KoreaMed

Search date: 2023. 08. 16

Category	N	Search terms	Search results
P	1	("Colorectal Neoplasms"[MH]) OR ("Colorectal"[ALL] OR "colon"[ALL] OR "colonic"[ALL] OR "rectal"[ALL] OR "rectum"[ALL])	9,694

	2	("surgery"[ALL] or "operation"[ALL] or "resection"[ALL] or "operative"[ALL] or "colectomy"[ALL])	95,202
	3	1 AND 2	4,735
I	4	("Thromboprophylaxis"[ALL] or ("antithrombotic"[ALL]) AND ("prophylaxis"[ALL] or "prevent"[ALL]))	67
P&I	5	3 AND 4	2

(11) KQ 11

Ovid MEDLINE(R) 1946 to Present with Daily Update

Search date: 2023. 08. 16

Category	N	Search terms	Search results
P	1	exp Colorectal Neoplasms/ OR (Colorectal OR colon OR colonic OR rectal OR rectum).tw,kw.	515,814
	2	(surger* or operation* or resection* or operative or colectomy).tw,kw.	2,227,928
	3	1 AND 2	113,759
I	4	(Urinary Catheterization* or Urethral Catheterization* or Urinary Catheter* or Urethral Catheter* or Foley* or decatheter* or catheter removal* or Indwelling catheter* or urinary *tention or urinary tract infection or urinary dysfunction).tw,kw.	47,326
P&I	5	3 AND 4	922
SIGN Filter (RCT)	6	(Randomized Controlled Trials as Topic/ or randomized controlled trial/ or Random Allocation/ or Double Blind Method/ or Single Blind Method/ or clinical trial/ or clinical trial, phase i.pt. or clinical trial, phase ii.pt. or clinical trial, phase iii.pt. or clinical trial, phase iv.pt. or controlled clinical trial.pt. or randomized controlled trial.pt. or multicenter study.pt. or clinical trial.pt. or exp Clinical Trials as topic/ or (clinical adj trial\$.tw. or ((singl\$ or doubl\$ or treb\$ or tripl\$) adj (blind\$3 or mask\$3)).tw. or PLACEBOS/ or placebo\$.tw. or randomly allocated.tw. or (allocated adj2 random\$.tw.) not (case report.tw. or letter/ or historical article/)	1,879,930
Total	7	5 AND 6	123

Embase

Search date: 2023. 08. 16

Category	N	Search terms	Search results
P	1	'colorectal tumor'/exp OR (Colorectal OR colon OR colonic OR rectal OR rectum):ab,ti,kw	809,236

	2	(surger* or operation* or resection* or operative or colectomy):ab,ti,kw	3,144,428
	3	#1 AND #2	194,472
I	4	('Urinary Catheterization*' or 'Urethral Catheterization*' or 'Urinary Catheter*' or 'Urethral Catheter*' or Foley* or decatheter* or 'catheter removal*' or 'Indwelling catheter*' or 'urinary *tention' or 'urinary tract infection' or 'urinary dysfunction'):ab,ti,kw	76,842
P&I	5	#3 AND #4	2,081
Additional	6	#5 AND ('article'/it OR 'article in press'/it OR 'review'/it OR 'short survey'/it)	1,008

Cochrane library

Search date: 2023. 08. 16

Category	N	Search terms	Search results
P	1	[mh "Colorectal Neoplasms"] OR (Colorectal OR colon OR colonic OR rectal OR rectum):ab,ti,kw	48,592
	2	(surger* or operation* or resection* or operative or colectomy):ab,ti,kw	310,273
	3	#1 AND #2	17,929
I	4	("Urinary Catheterization*" or "Urethral Catheterization*" or "Urinary Catheter*" or "Urethral Catheter*" or Foley* or decatheter* or "catheter removal*" or "Indwelling catheter*" or "urinary *tention" or "urinary tract infection" or "urinary dysfunction"):ab,ti,kw	11,822
P&I	5	#3 AND #4	353

KoreaMed

Search date: 2023. 08. 16

Category	N	Search terms	Search results
P	1	("Colorectal Neoplasms"[MH]) OR ("Colorectal"[ALL] OR "colon"[ALL] OR "colonic"[ALL] OR "rectal"[ALL] OR "rectum"[ALL])	9,694
	2	("surgery"[ALL] or "operation"[ALL] or "resection"[ALL] or "operative"[ALL] or "colectomy"[ALL])	95,202
	3	1 AND 2	4,735

I	4	("Urinary Catheterization"[ALL] or "Urethral Catheterization"[ALL] or "Urinary Catheter"[ALL] or "Urethral Catheter"[ALL] or "Foley"[ALL] or decatheter"[ALL] or "catheter removal"[ALL] or "Indwelling catheter"[ALL] or "urinary tention"[ALL] or "urinary tract infection"[ALL] or "urinary dysfunction"[ALL])	2
P&I	5	3 AND 4	49

(12) KQ 12

Ovid MEDLINE(R) 1946 to Present with Daily Update

Search date: 2023. 08. 16

Category	N	Search terms	Search results
P	1	exp Colorectal Neoplasms/ OR (Colorectal OR colon OR colonic OR rectal OR rectum).tw,kw.	515,814
	2	(surger* or operation* or resection* or operative or colectomy).tw,kw.	2,227,928
	3	1 AND 2	113,759
I	4	(early adj2 (nutrition* or feed* or nutrient* or intake or eating)).tw,kw.	8,710
P&I	5	3 AND 4	234

Embase

Search date: 2023. 08. 16

Category	N	Search terms	Search results
P	1	'colorectal tumor'/exp OR (Colorectal OR colon OR colonic OR rectal OR rectum):ab,ti,kw	809,236
	2	(surger* or operation* or resection* or operative or colectomy):ab,ti,kw	3,144,428
	3	#1 AND #2	194,472
I	4	(early NEAR/2 (nutrition* or feed* or nutrient* or intake or eating)):ab,ti,kw	12,468
P&I	5	#3 AND #4	412

Cochrane library

Search date: 2023. 08. 16

Category	N	Search terms	Search results
P	1	[mh "Colorectal Neoplasms"] OR (Colorectal OR colon OR colonic OR rectal OR rectum):ab,ti,kw	48,592

	2	(surger* or operation* or resection* or operative or colectomy):ab,ti,kw	310,273
	3	#1 AND #2	17,929
I	4	(early NEAR/2 (nutrition* or feed* or nutrient* or intake or eating)):ab,ti,kw	2,247
P&I	5	#3 AND #4	153

KoreaMed

Search date: 2023. 08. 16

Category	N	Search terms	Search results
P	1	("Colorectal Neoplasms"[MH]) OR ("Colorectal"[ALL] OR "colon"[ALL] OR "colonic"[ALL] OR "rectal"[ALL] OR "rectum"[ALL])	9,694
	2	("surgery"[ALL] or "operation"[ALL] or "resection"[ALL] or "operative"[ALL] or "colectomy"[ALL])	95,202
	3	1 AND 2	4,735
I	4	("early"[ALL] AND ("nutrition"[ALL] or "feed"[ALL] or "nutrient"[ALL] or "intake"[ALL] or "eating"[ALL]))	985
P&I	5	3 AND 4	19

(13) KQ 13

Ovid MEDLINE(R) 1946 to Present with Daily Update

Search date: 2023. 08. 16

Category	N	Search terms	Search results
P	1	exp Colorectal Neoplasms/ OR (Colorectal OR colon OR colonic OR rectal OR rectum).tw,kw.	515,814
	2	(surger* or operation* or resection* or operative or colectomy).tw,kw.	2,222,928
	3	1 AND 2	113,759
I	4	((early OR immediate OR accelerated) AND (mobilization OR ambulat* OR walk* OR exercise*)).tw,kw.	56,231
P&I	5	3 AND 4	455

Embase

Search date: 2023. 08. 16

Category	N	Search terms	Search results
P	1	'colorectal tumor'/exp OR (Colorectal OR colon OR colonic OR	809,236

		rectal OR rectum):ab,ti,kw	
	2	(surger* or operation* or resection* or operative or colectomy):ab,ti,kw	3,144,428
	3	#1 AND #2	194,472
I	4	((early OR immediate OR accelerated) AND (mobilization OR ambulat* OR walk* OR exercise*)):ab,ti,kw	88,748
P&I	5	#3 AND #4	959

Cochrane library

Search date: 2023. 08. 16

Category	N	Search terms	Search results
P	1	[mh "Colorectal Neoplasms"] OR (Colorectal OR colon OR colonic OR rectal OR rectum):ab,ti,kw	48,592
	2	(surger* or operation* or resection* or operative or colectomy):ab,ti,kw	310,273
	3	#1 AND #2	17,929
I	4	((early OR immediate OR accelerated) AND (mobilization OR ambulat* OR walk* OR exercise*)):ab,ti,kw	16,781
P&I	5	#3 AND #4	285

KoreaMed

Search date: 2023. 08. 16

Category	N	Search terms	Search results
P	1	("Colorectal Neoplasms"[MH]) OR ("Colorectal"[ALL] OR "colon"[ALL] OR "colonic"[ALL] OR "rectal"[ALL] OR "rectum"[ALL])	9,694
	2	("surgery"[ALL] or "operation"[ALL] or "resection"[ALL] or "operative"[ALL] or "colectomy"[ALL])	95,202
	3	1 AND 2	4,735
I	4	(("early"[ALL] OR "immediate"[ALL] OR "accelerated"[ALL]) AND ("mobilization"[ALL] OR "ambulation"[ALL] OR "walk"[ALL] OR "exercise"[ALL]))	1,003
P&I	5	3 AND 4	12

(14) References

1. Lu J, Khamar J, McKechnie T, Lee Y, Amin N, Hong D, et al. Preoperative carbohydrate loading before colorectal surgery: a systematic review and meta-analysis of randomized controlled trials. *Int J Colorectal Dis* 2022;37:2431-50.
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4. Hamid HK, Emile SH, Saber AA, Ruiz-Tovar J, Minas V, Cataldo TE. Laparoscopic-guided transversus abdominis plane block for postoperative pain management in minimally invasive surgery: systematic review and meta-analysis. *J Am Coll Surg* 2020;231:376-86.e15.