

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 "Pre-operative Exercise"[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 "inappetent"[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

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

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
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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
	1	'colorectal tumor'/exp OR (Colorectal OR colon OR colonic OR rectal OR rectum):ab,ti,kw	809,250
P	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
	1	[mh "Colorectal Neoplasms"] OR (Colorectal OR colon OR colonic OR rectal OR rectum):ab,ti,kw	48,592
P	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
	1	[mh "Colorectal Neoplasms"] OR (Colorectal OR colon OR colonic OR rectal OR rectum):ab,ti,kw	48,592
P	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
	1	("Colorectal Neoplasms"[MH]) OR ("Colorectal"[ALL] OR "colon"[ALL] OR "colonic"[ALL] OR "rectal"[ALL] OR "rectum"[ALL])	9,694
P	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.
2. Hoang TN, Musquiz BN, Tubog TD. Impact of goal-directed fluid therapy on postoperative outcomes in colorectal surgery: an evidence-based review. *J Perianesth Nurs* 2023;38:650-6.e8.
3. Rollins KE, Mathias NC, Lobo DN. Meta-analysis of goal-directed fluid therapy using transoesophageal Doppler monitoring in patients undergoing elective colorectal surgery. *BJS Open* 2019;3:606-16.
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.

Supplement Table 1. Multiple pharmacological options for preventing postoperative nausea and vomiting

Classification of drug mechanisms	Active ingredient	Dosage	Evidence level
5-HT ₃ Receptor antagonist	Ondansetron	4 mg IV or 8 mg PO	Category A, level 1
	Palonosetron	0.075 mg IV	Category A, level 1
	Granisetron	0.35-3 mg IV	Category A, level 1
	Ramosetron	0.3 mg IV	Category A, level 1
	Dolasetron	12.5 mg IV	Category A, level 2
	Tropisetron	2 mg IV	Category A, level 1
NK1 Receptor antagonists	Aprepitant	40 mg PO	Category A, level 1
	Casopitant	150 mg PO	Category A, level 1
	Rolapitant	70-200 mg PO	Category A, level 3
Corticosteroids	Dexamethasone	4-8 mg IV	Category A, level 1
	Methylprednisolone	40 mg IV	Category A, level 2
Anti-dopaminergics	Amisulpride	5 mg	Category A, level 2
	Droperidol	0.625 mg IV	Category A, level 1
	Haloperidol	0.5 to <2 mg IM/IV	Category A, level 1
	Metoclopramide	10 mg	Category A, level 1
	Perphenazine	5 mg IV	Category A, level 1
	Scopolamine	Transdermal patch	Category A, level 1
Anti-histamines	Dimenhydrinate	1 mg/kg IV	Category A, level 1
	Promethazine	6.25 mg	Category A, level 2

KQ1

Identification

Screening

Inclusion

Systematic Identification of New Studies Using Databases and Registries

Identification of New Studies through Alternative Methods

Records Identified through Systematic Searches : 795
Ovid-Medline (n=237)
Embase (n=391)
Cochrane (n=166)
KoreaMed (n=1)

Number of Records Removed Before Screening:
Elimination Based on Duplicate Records (n=246)

Number of Other Identified Records: 0
Website (n=0)
Organization (n=0)
Journal Article Citation Search (n=0)

Total of Screened Records (n=549)

Number of Excluded Records (n=532)

Number of Selected Literature (n=17)

Number of Publications Not Available in Full Text (n=7)

Number of Selected Literature (n=0)

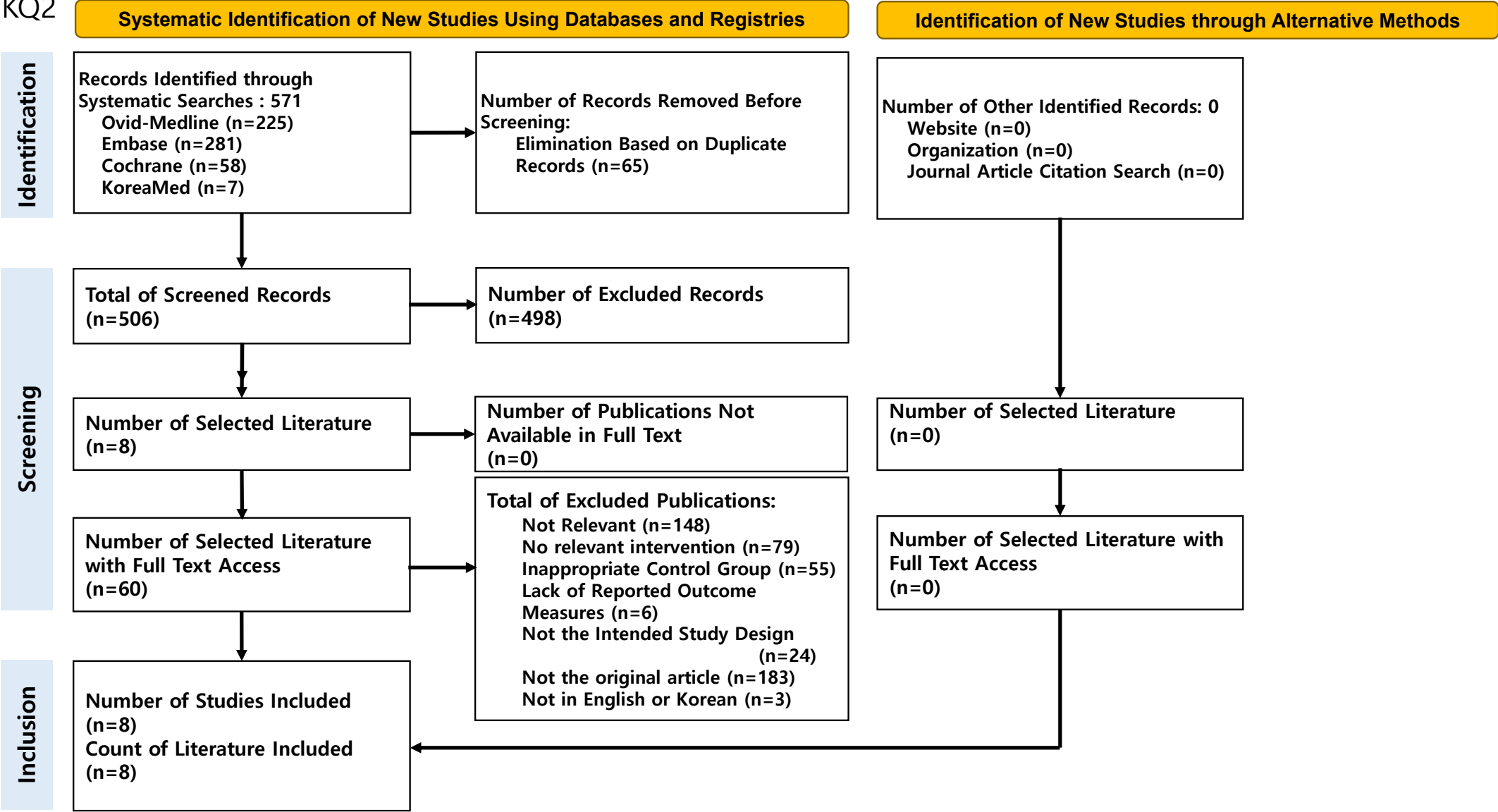
Number of Selected Literature with Full Text Access (n=10)

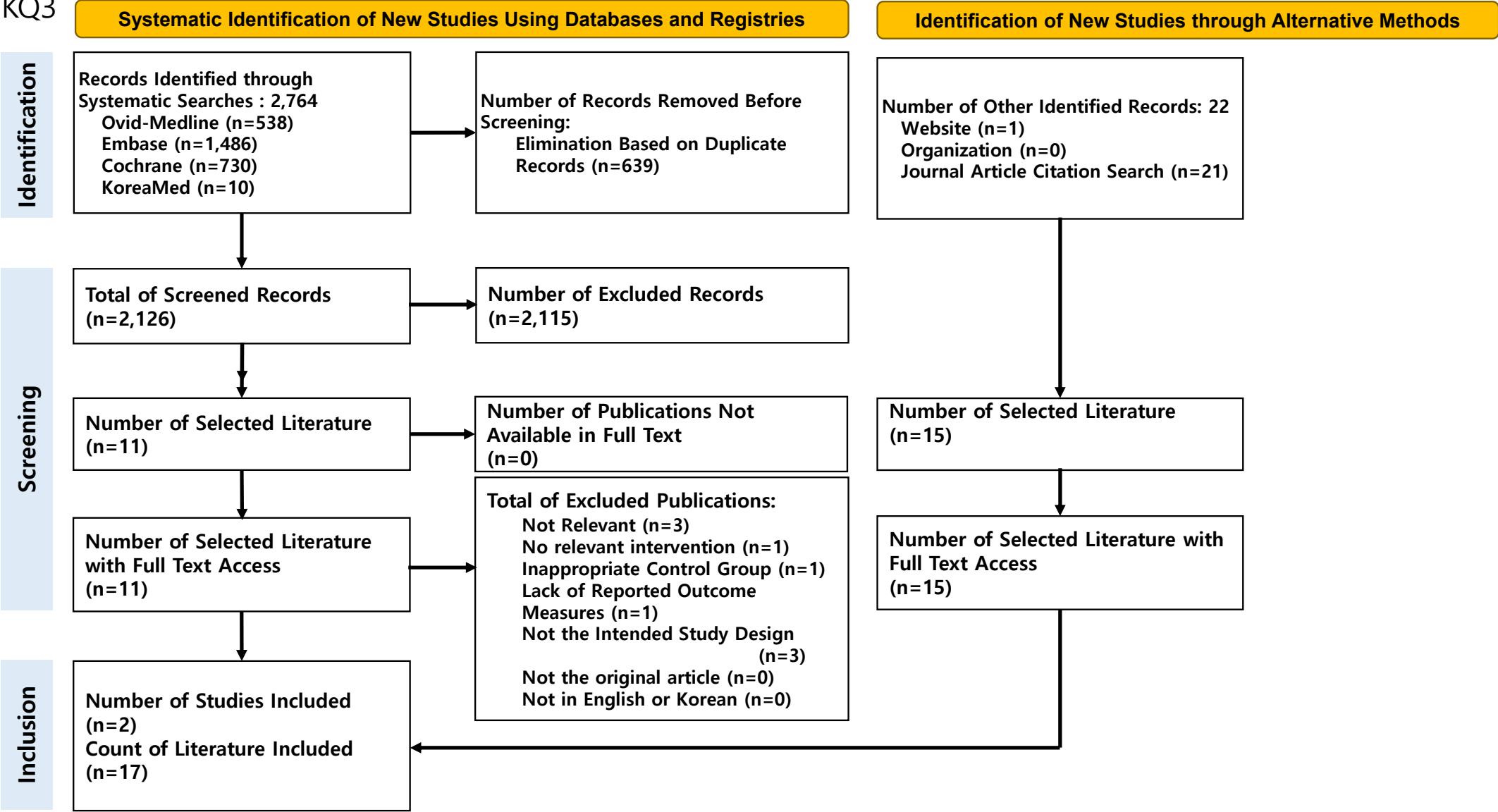
Total of Excluded Publications:
Not Relevant (n=25)
No relevant intervention (n=107)
Inappropriate Control Group (n=7)
Lack of Reported Outcome Measures (n=14)
Not the Intended Study Design (n=43)
Not the original article (n=332)
Not in English or Korean (n=4)

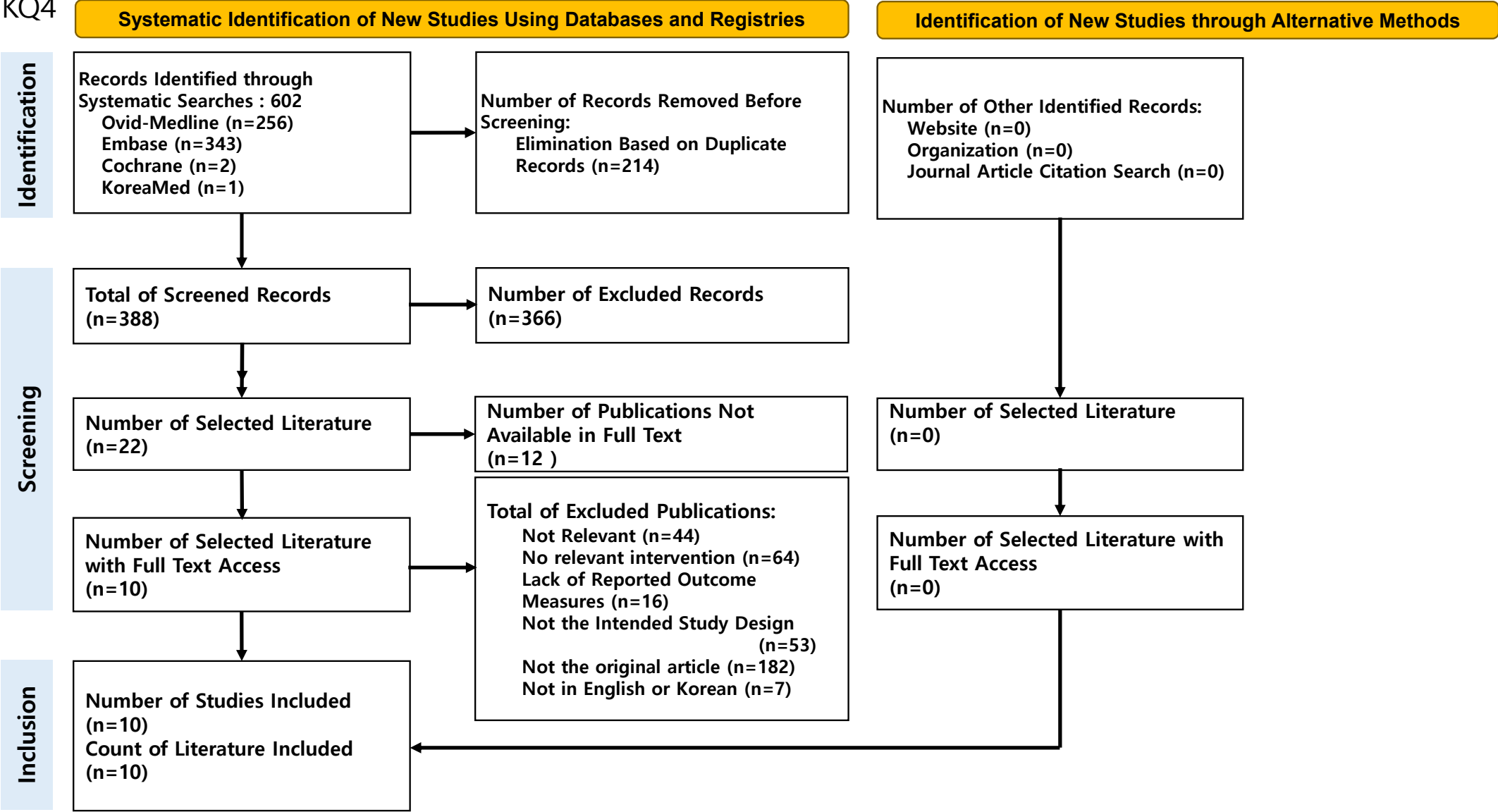
Number of Selected Literature with Full Text Access (n=0)

Number of Studies Included (n=4)
Count of Literature Included (n=4)

Supplement Fig. 1. Preferred Reporting Items for Systematic Reviews and Meta-Analyses (PRISMA) flowchart for each key question (KQ).







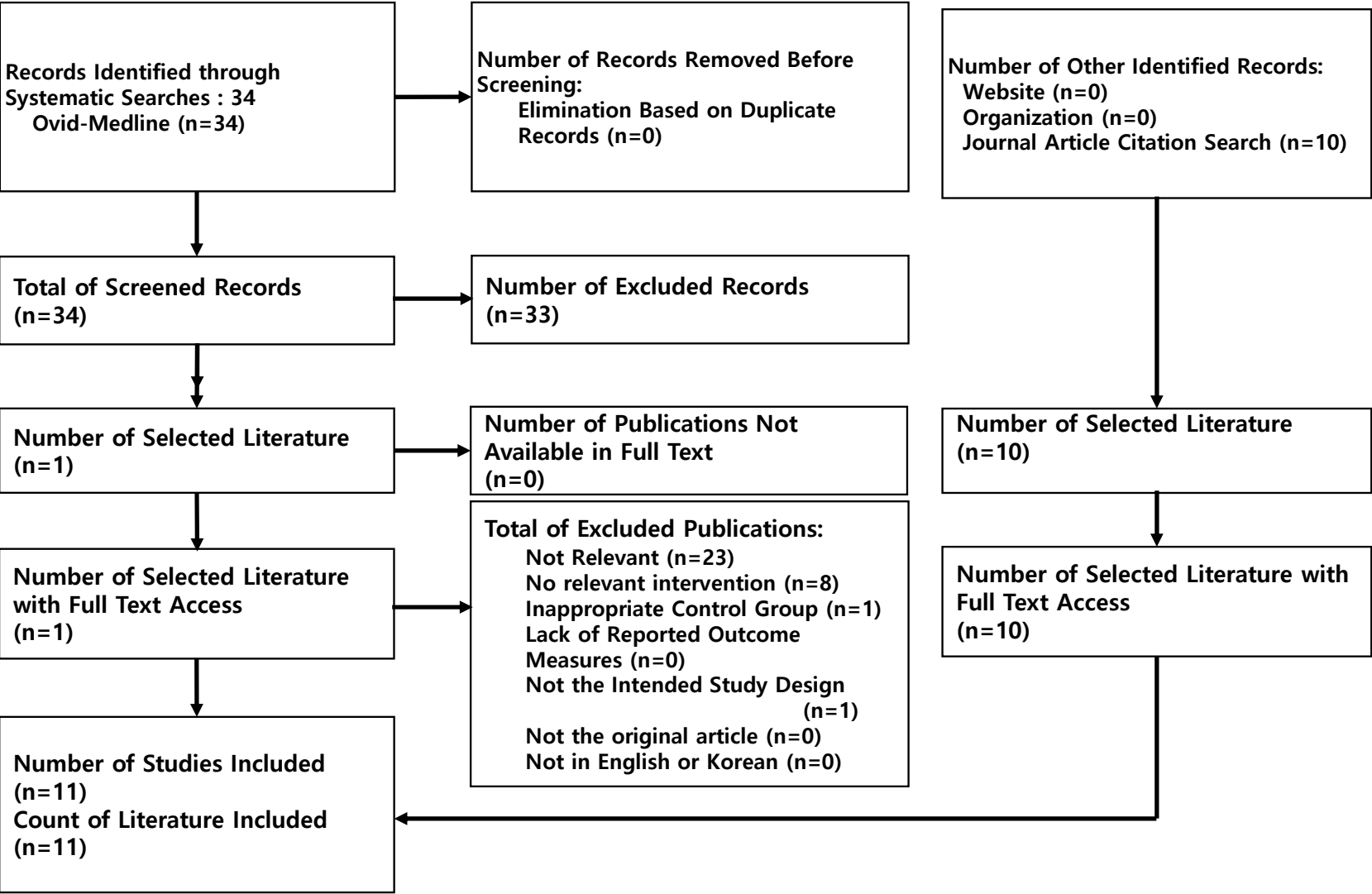
Identification

Screening

Inclusion

Systematic Identification of New Studies Using Databases and Registries

Identification of New Studies through Alternative Methods



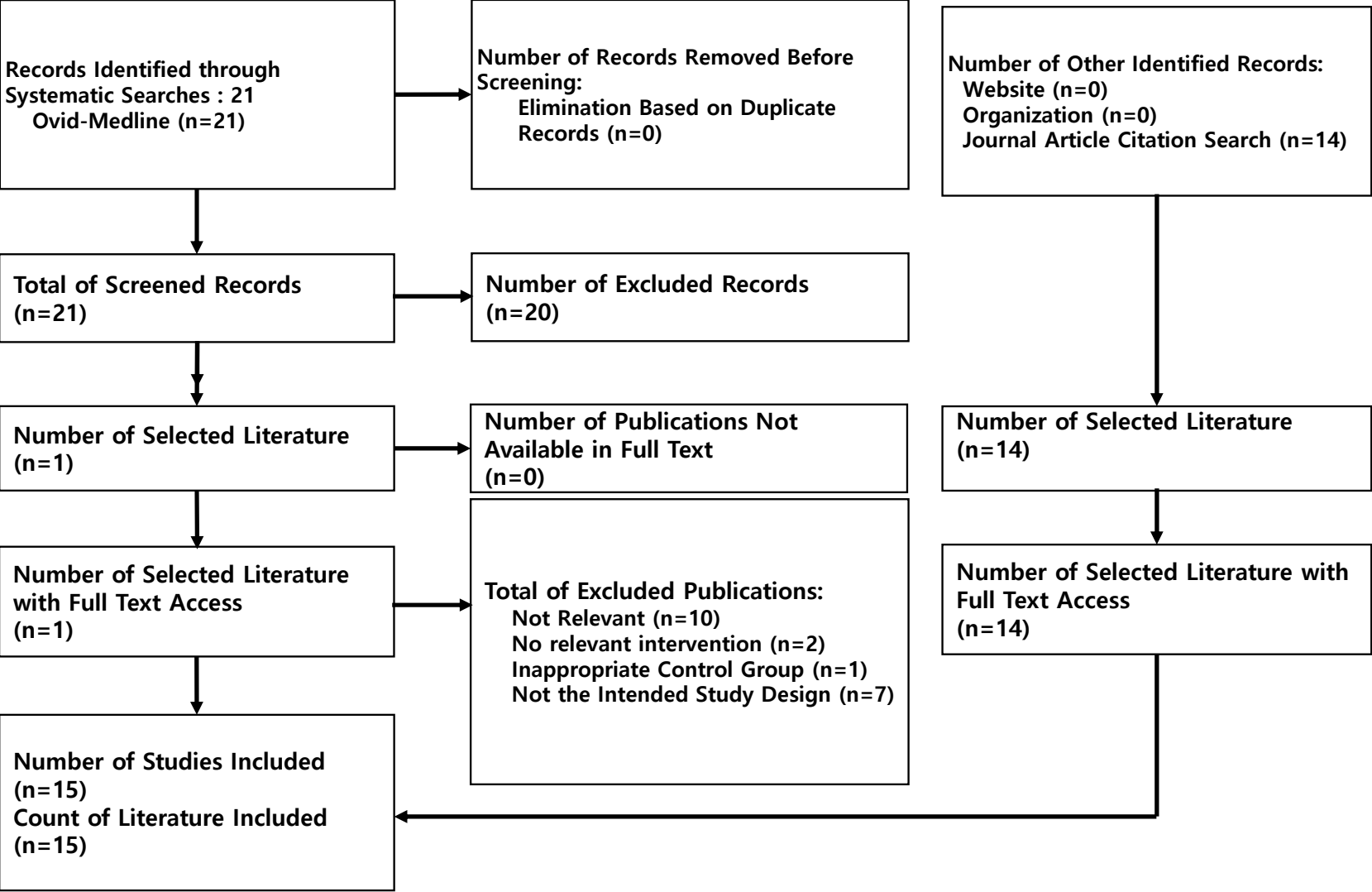
Identification

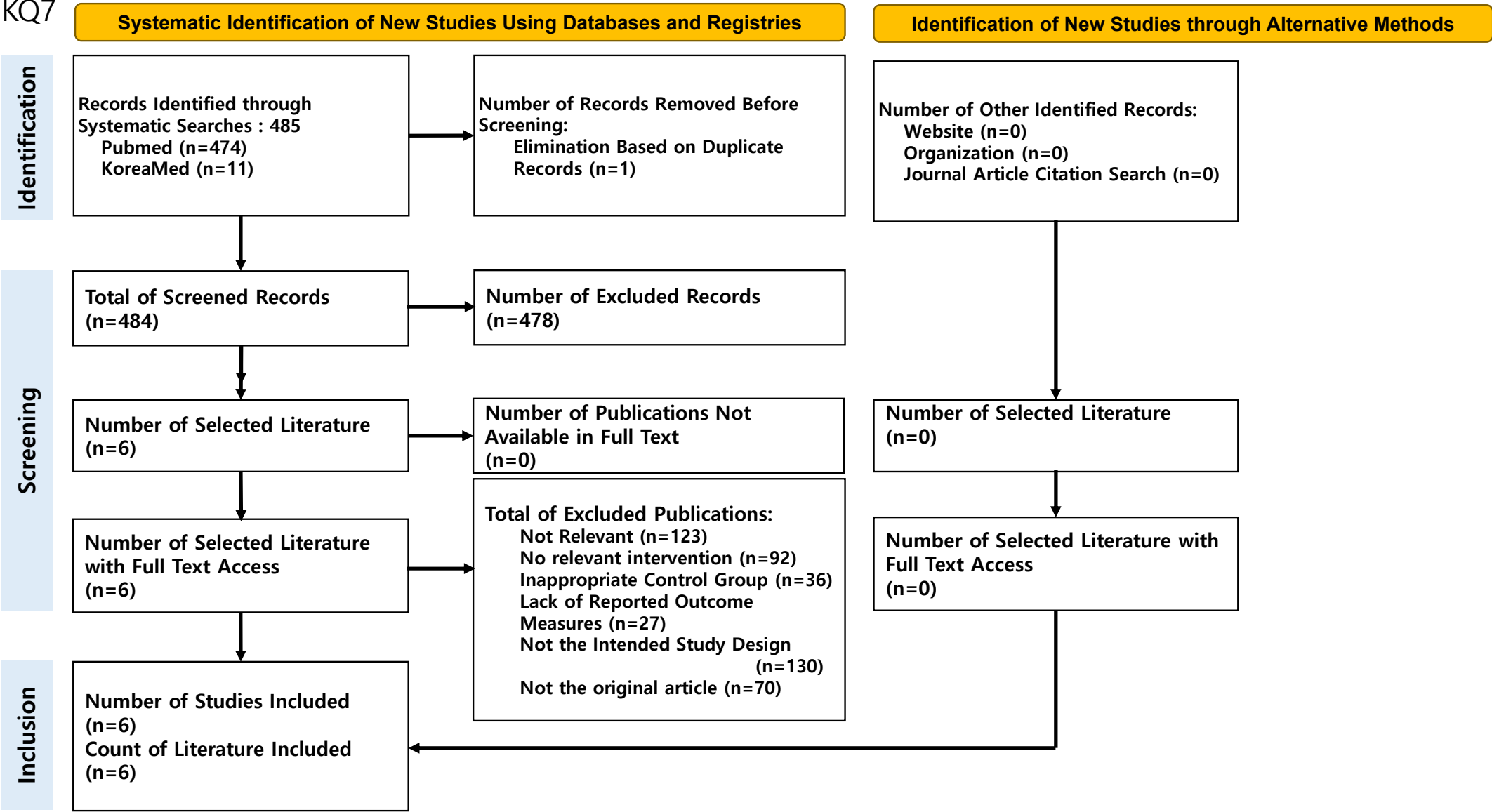
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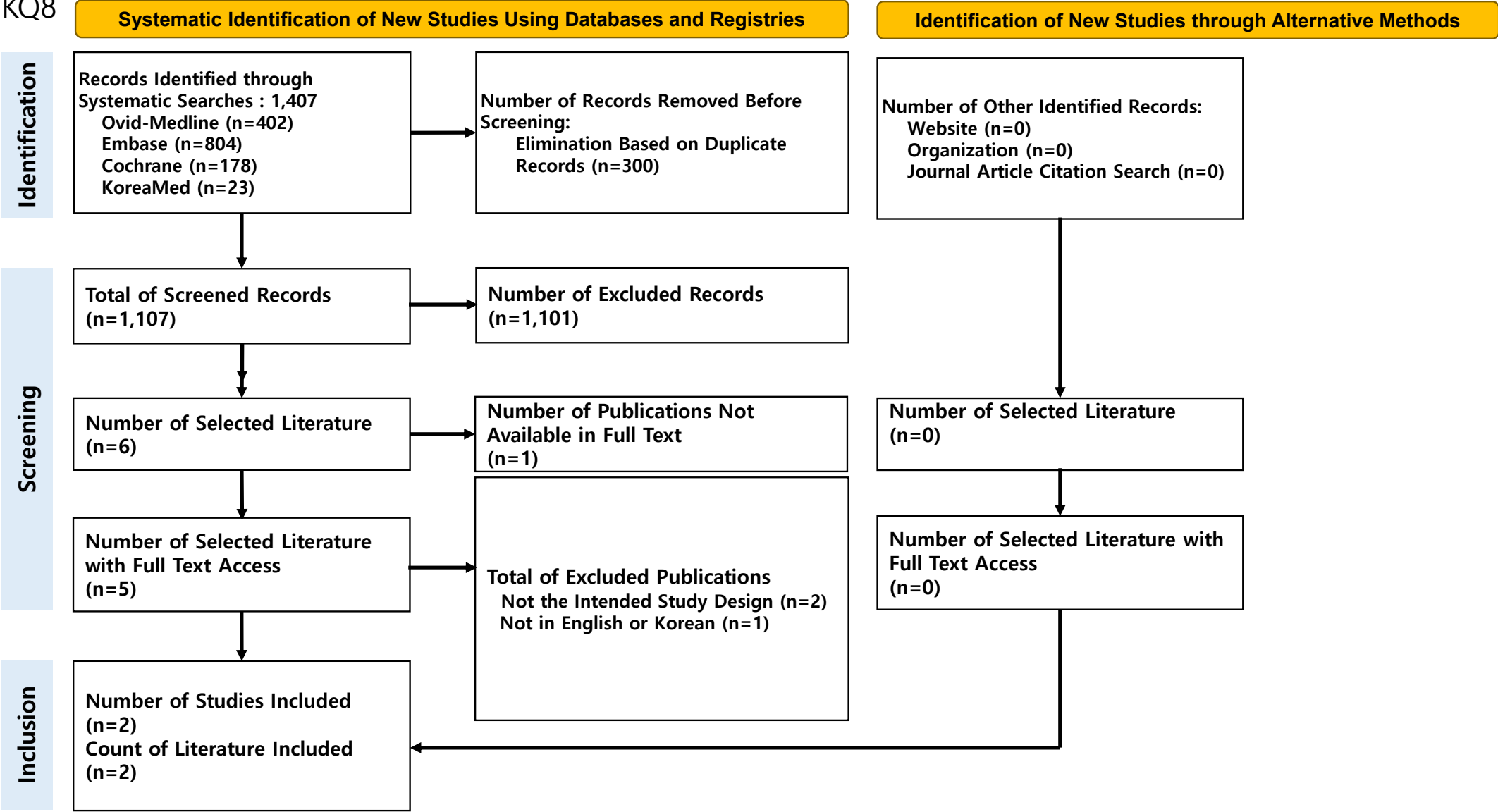
Inclusion

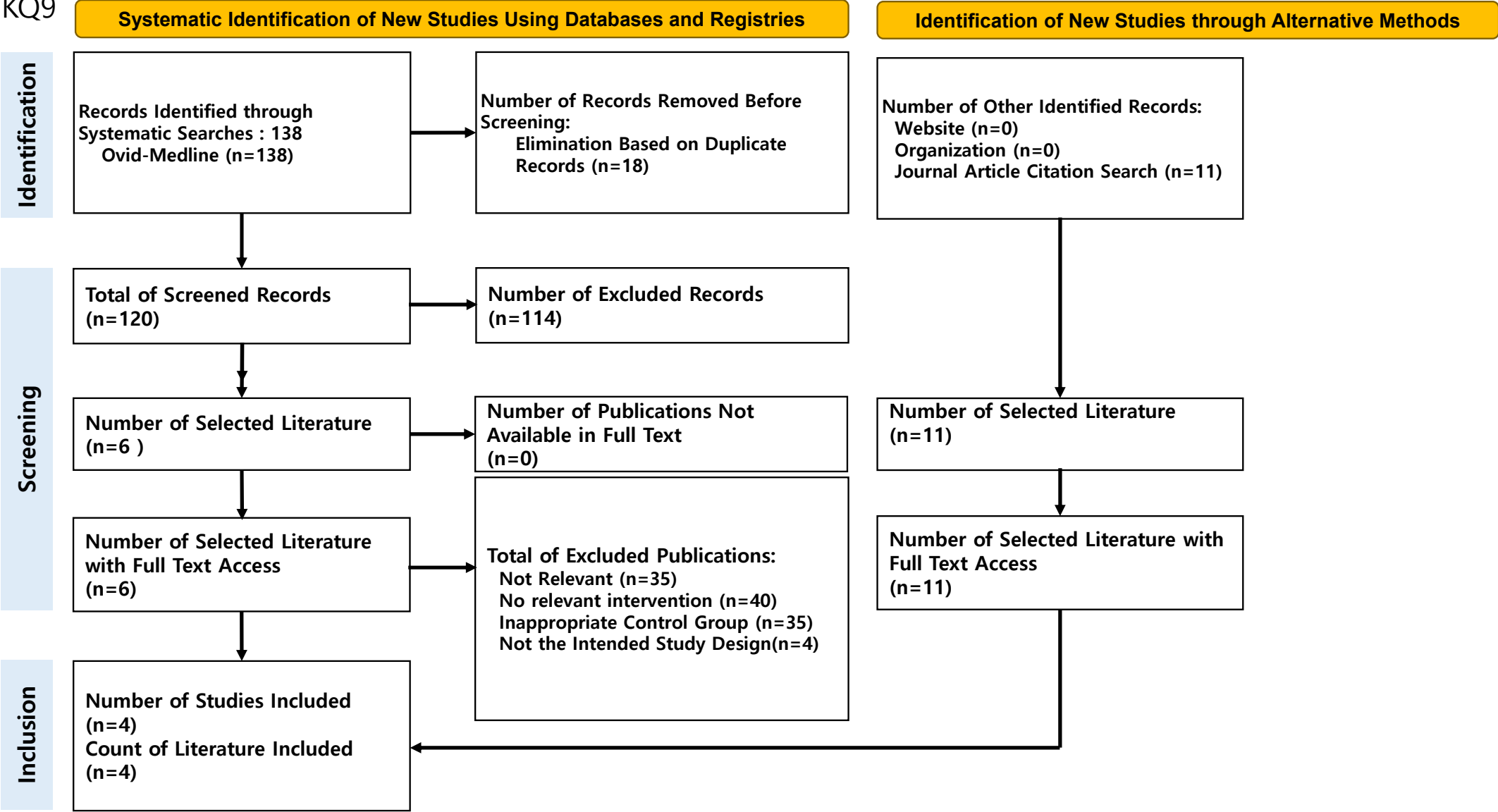
Systematic Identification of New Studies Using Databases and Registries

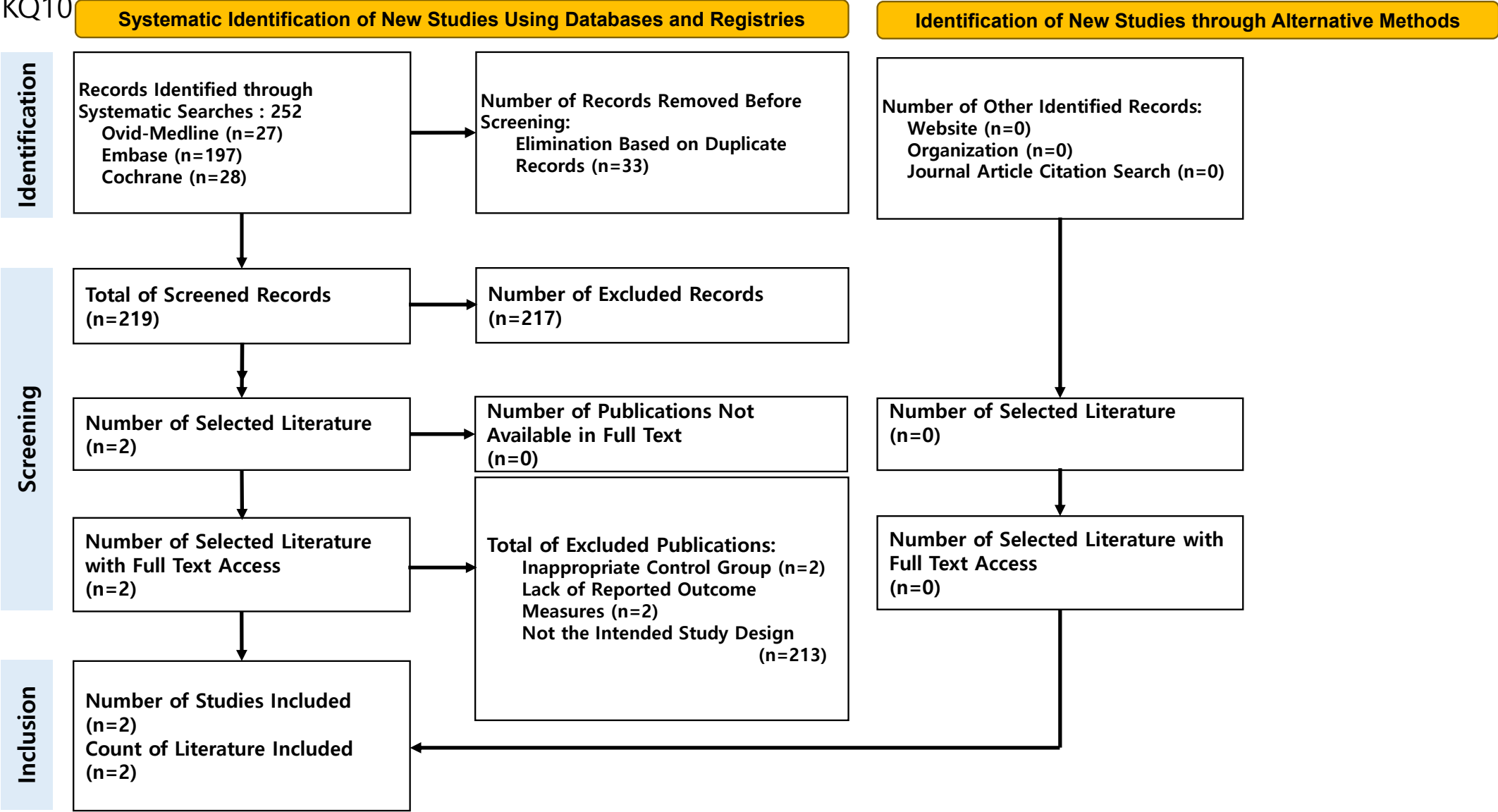
Identification of New Studies through Alternative Methods

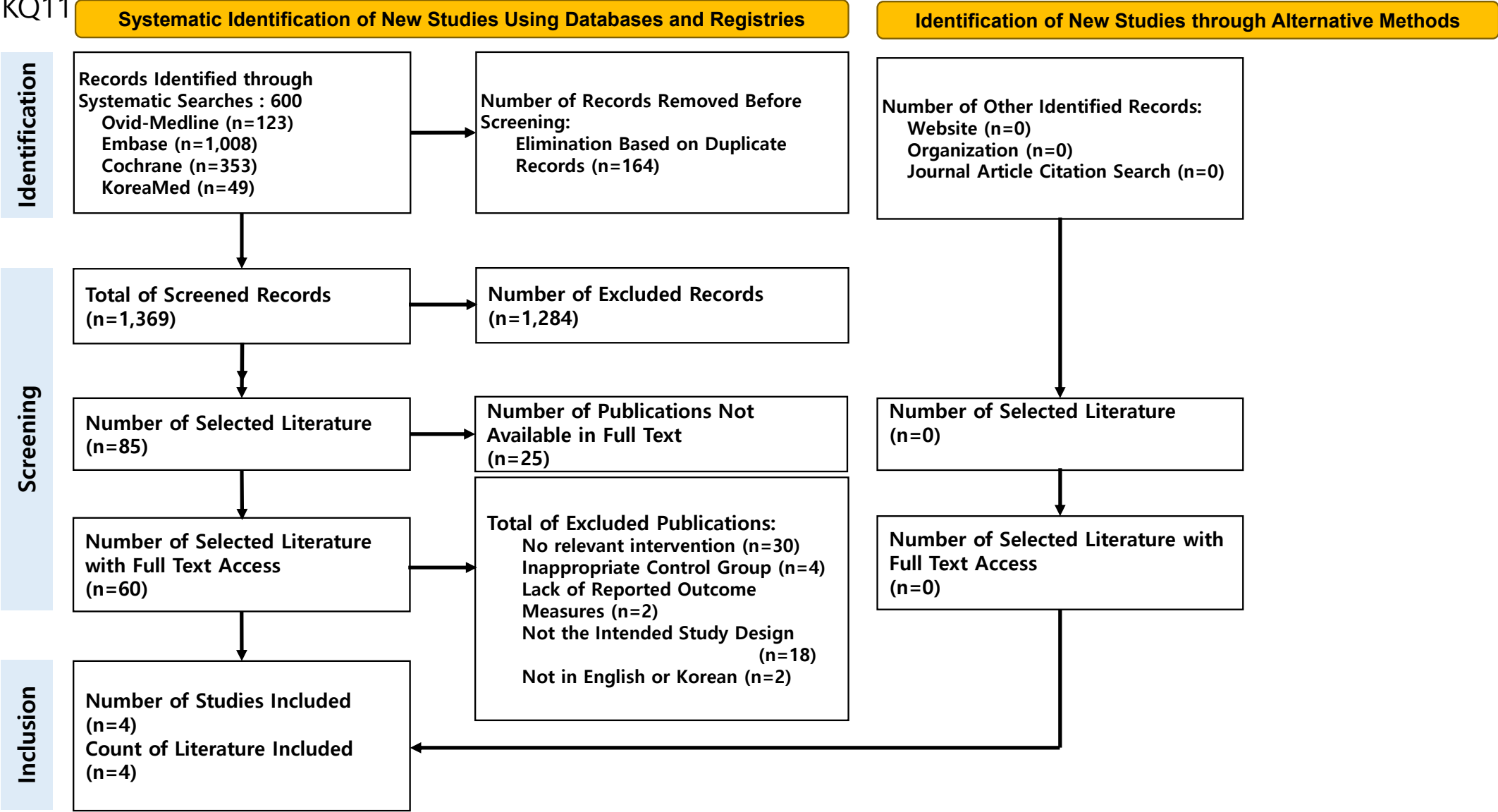


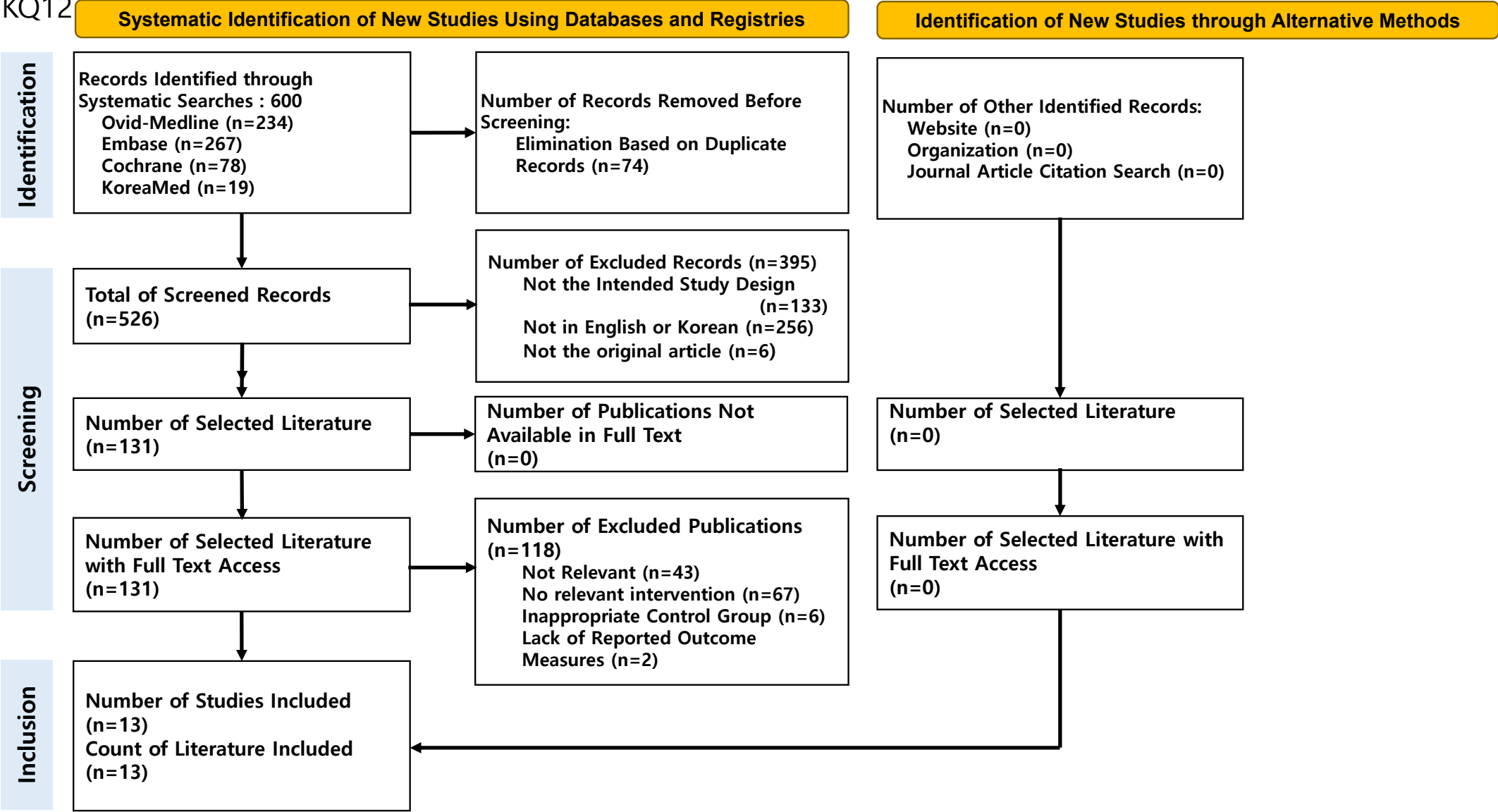


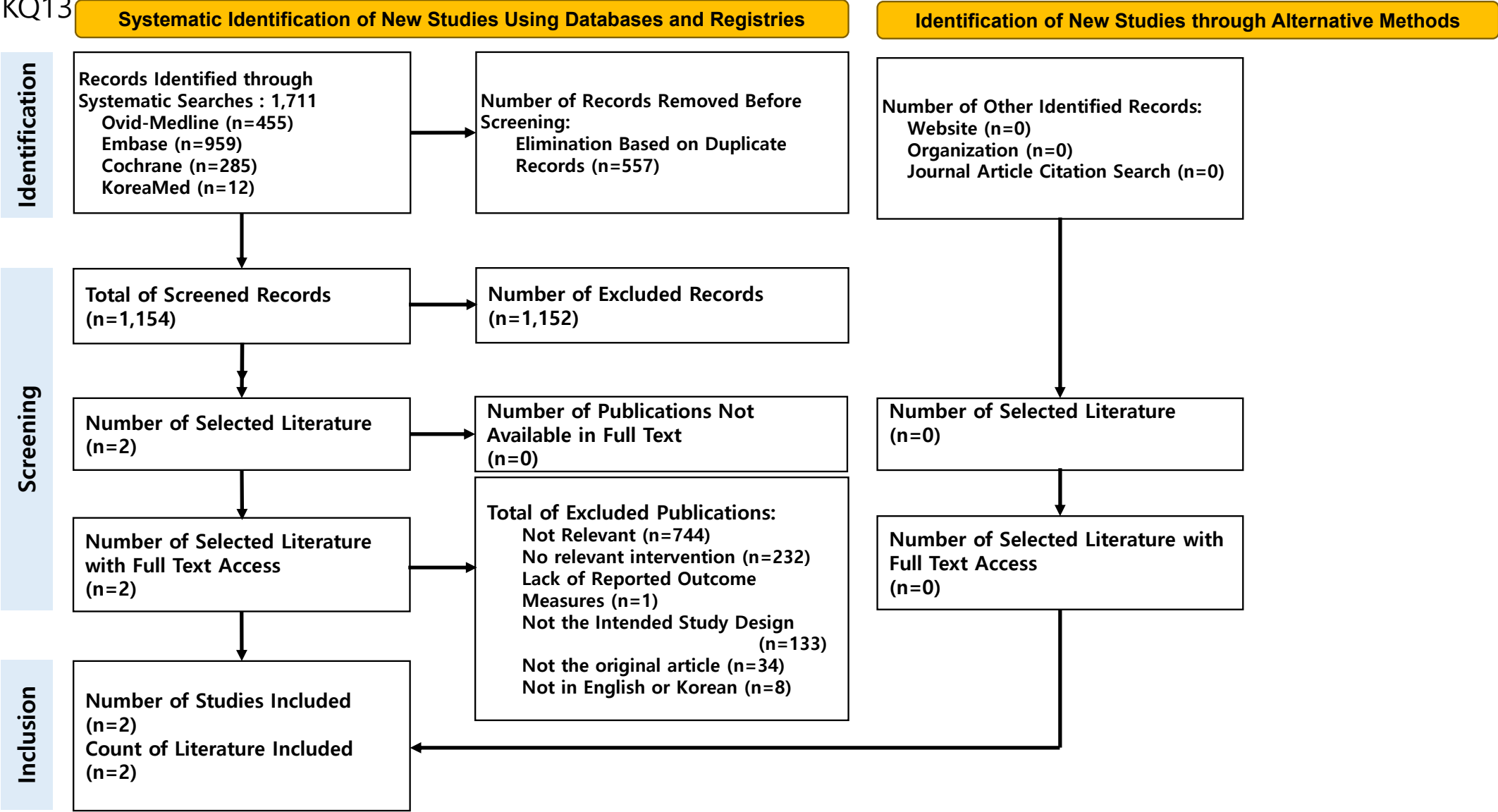












Supplement Fig. 2. Risk of bias assessment for each key question (KQ) using Risk of Bias in Non-randomized Studies of Intervention (ROBINS-I), and Cochrane Risk-of-Bias Tool for Randomized Trials 2 (RoB 2).

KQ1

	Random sequence generation (selection bias)	Allocation concealment (selection bias)	Blinding of participants and personnel (performance bias)	Blinding of outcome assessment (detection bias)	Incomplete outcome data (attrition bias)	Selective reporting (reporting bias)	Other bias
Berkel 2022							
Bousquet-Dion 2018							
Carli 2020							
de Klerk 2021							
Gillis 2014							
Gloor 2022							
Li 2013							
Lopez-Rodriguez-Arias 2021							
Molenaar 2023							
van der Hulst 2021							

	Random sequence generation (selection bias)	Allocation concealment (selection bias)	Blinding of participants and personnel (performance bias)	Blinding of outcome assessment (detection bias)	Incomplete outcome data (attrition bias)	Selective reporting (reporting bias)	Other bias
Horie 2006	?	+	-	+	+	+	+
Lee 2023	+	+	+	+	+	+	+
Moya 2016	+	+	-	-	+	+	+
Moya 2016.05	+	+	+	+	+	+	+
Tesař 2022	+	+	-	+	+	+	+
Tesar 2023	+	+	-	-	+	+	+
Wierdak 2021	+	+	-	+	+	+	+
Xu 2006	+	+	-	-	+	+	+

	Random sequence generation (selection bias)	Allocation concealment (selection bias)	Blinding of participants and personnel (performance bias)	Blinding of outcome assessment (detection bias)	Incomplete outcome data (attrition bias)	Selective reporting (reporting bias)	Other bias
Ahsan 2014	?	+	?	?	+	+	+
Alia 2015	+	?	?	?	+	+	+
Bala 2014	+	?	?	+	+	+	+
Bhattarai 2011	?	+	?	?	+	+	+
Biswas 2003	+	?	+	+	+	+	+
Blitz 2012	?	?	?	?	+	+	+
Chatterjee 2017	+	+	+	?	+	+	+
Gautam 2008	+	?	+	+	+	+	+
Ghosh 2011	+	+	+	+	+	+	+
Jo 2012	+	+	+	?	+	+	?
Khan 2006	+	+	?	?	+	+	?
Kumar 2013	?	?	?	?	+	+	-
Mohammadi 2018	+	+	?	?	+	?	?
Nagappa 2022	+	+	?	+	+	?	?
Rajeeva 1999	+	?	?	?	+	+	+
Ryu 2013	+	-	+	+	+	+	+
Sahdo 2023	+	+	+	?	+	+	?

	Random sequence generation (selection bias)	Allocation concealment (selection bias)	Blinding of participants and personnel (performance bias)	Blinding of outcome assessment (detection bias)	Incomplete outcome data (attrition bias)	Selective reporting (reporting bias)	Other bias
Anjum 2017	+	+	+	?	+	+	?
Arezzo 2021	+	+	-	+	-	?	+
Ikeda 2016	+	+	-	+	+	+	-
Koskenvuo 2019	+	+	-	+	+	+	-
Oshima 2013	+	+	-	+	+	+	+
Ram 2005	+	-	-	?	+	-	?
Sadahiro 2014	+	+	-	-	+	-	-
Suzuki 2020	+	+	-	?	+	+	+
Uchino 2019	+	-	-	+	+	+	+
Yabata 1997	+	?	-	-	+	+	+

	Random sequence generation (selection bias)	Allocation concealment (selection bias)	Blinding of participants and personnel (performance bias)	Blinding of outcome assessment (detection bias)	Incomplete outcome data (attrition bias)	Selective reporting (reporting bias)	Other bias
Hamamoto 2018	+	?	-	-	?	?	+
Henriksen 2003	+	?	-	+	?	?	+
Kaska 2010	?	+	-	?	?	?	-
Lidder 2013	+	+	+	+	+	?	+
Noblett 2006	+	+	-	+	+	?	+
Rizvanovic 2019	+	+	-	+	+	+	+
Rizvanovic 2023	+	+	-	+	+	+	+
Sada 2014	+	+	+	+	+	+	+
Wang 2010	?	?	+	+	+	?	-
Webster 2014	+	+	-	+	+	?	+
Wongyingsinn 2019	+	+	+	+	+	?	+

	Random sequence generation (selection bias)	Allocation concealment (selection bias)	Blinding of participants and personnel (performance bias)	Blinding of outcome assessment (detection bias)	Incomplete outcome data (attrition bias)	Selective reporting (reporting bias)	Other bias
Brandstrup 2012	+	+	?	+	+	+	+
Cesur 2019	?	+	+	+	+	+	+
Challand 2012	?	?	?	+	+	+	+
Conway 2002	?	?	?	?	+	+	-
Gómez-Izquierdo 2017	+	+	+	+	+	+	+
Lee 2021	+	+	+	+	+	+	+
Liu 2019	+	?	+	+	?	?	-
Mahrose 2023	+	+	+	+	+	+	+
Noblett 2006	?	?	+	+	+	+	-
Phan 2014	+	+	-	+	+	+	+
Reisinger 2017	+	+	-	+	+	+	?
Senagore 2009	+	?	?	?	+	+	+
Srinivasa 2013	+	+	-	+	+	+	+
Wakeling 2005	+	+	+	?	+	+	+
Zakhaleva 2013	+	+	?	?	+	+	?

	Random sequence generation (selection bias)	Allocation concealment (selection bias)	Blinding of participants and personnel (performance bias)	Blinding of outcome assessment (detection bias)	Incomplete outcome data (attrition bias)	Selective reporting (reporting bias)	Other bias
Brown 2001	+	-	-	-	+	+	?
Johnson 1989	-	?	-	-	+	-	-
Merad 1998	+	+	-	-	+	+	+
Merad 1999	+	+	-	-	+	+	+
Quentin 2017	?	-	-	-	-	+	+
Sagar 1995	+	-	-	-	+	-	?

Lei 2004	?	?	-	?	?	?	-
	Random sequence generation (selection bias)	Allocation concealment (selection bias)	Blinding of participants and personnel (performance bias)	Blinding of outcome assessment (detection bias)	Incomplete outcome data (attrition bias)	Selective reporting (reporting bias)	Other bias

ROBINS-I

	Bias due to confounding	Bias in selection of participants into the study	Bias in classification of interventions	Bias in selection of the reported result	Bias due to deviations from intended interventions	Bias due to missing data	Bias in measurement of outcomes	Overall bias
Venara 2020	1	1	1	3	1	1	2	1
0:No information,1:Low,2:Moderate,3:Serious,4:Critical								

	Random sequence generation (selection bias)	Allocation concealment (selection bias)	Blinding of participants and personnel (performance bias)	Blinding of outcome assessment (detection bias)	Incomplete outcome data (attrition bias)	Selective reporting (reporting bias)	Other bias
Damadi 2019	?	?	?	?	+	+	+
Haruethaivijitchock 2020	+	+	+	+	+	+	+
Honaker 2021	?	+	?	?	+	+	-
Keller 2014	+	+	+	+	+	+	+
Liang 2021	+	+	+	+	+	+	+
Oh 2017	+	+	+	+	+	+	+
Pedrazzani 2021	+	+	+	+	+	+	+
Ping 2018	+	+	-	-	+	+	+
Ren 2022	+	+	+	+	+	+	+
Smith 2015	?	+	-	-	+	+	+
Tikuisis 2016	+	+	+	+	+	+	+
Walter 2013	+	+	+	+	+	+	+
Xu 2020	+	+	-	+	+	+	+
Zaghiyan 2019	+	+	-	-	+	+	+
Zhang 2023	?	?	+	+	+	+	-
Zhao 2021	+	+	+	+	+	+	+
Zheng 2018	+	+	-	+	+	+	+

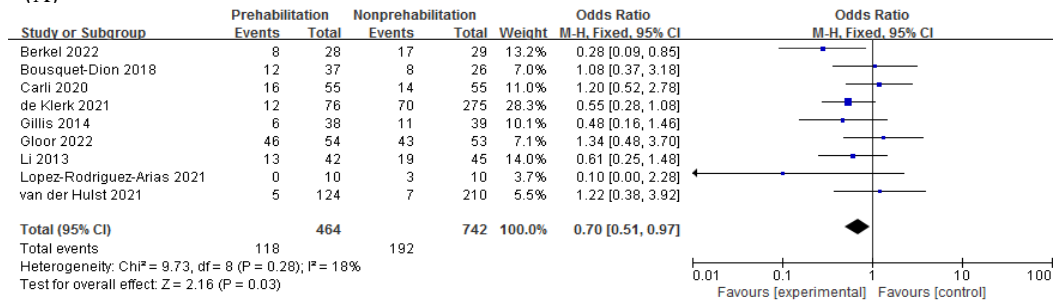
	Random sequence generation (selection bias)	Allocation concealment (selection bias)	Blinding of participants and personnel (performance bias)	Blinding of outcome assessment (detection bias)	Incomplete outcome data (attrition bias)	Selective reporting (reporting bias)	Other bias
Becattini 2022	+	+	+	+	+	+	?
Kamachi 2020	+	+	?	?	+	?	?

	Random sequence generation (selection bias)	Allocation concealment (selection bias)	Blinding of participants and personnel (performance bias)	Blinding of outcome assessment (detection bias)	Incomplete outcome data (attrition bias)	Selective reporting (reporting bias)	Other bias
Benoist et al 1999	+	?	-	?	+	+	+
Coyle et al 2014	+	?	-	?	+	+	+
Patel et al 2018	+	?	-	?	+	+	+
Zmora et al 2010	+	?	-	?	+	+	+

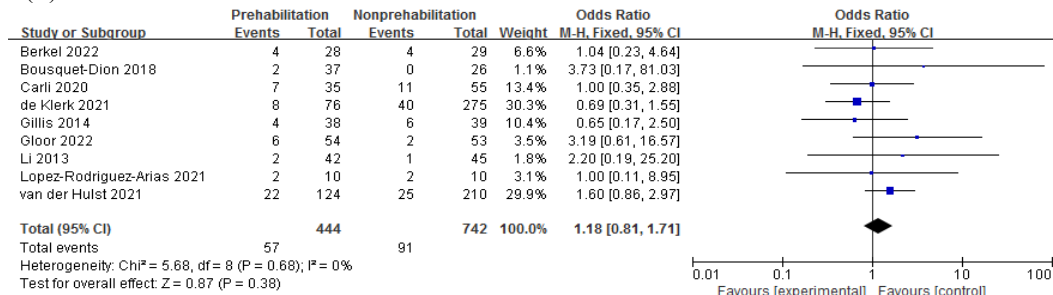
	Random sequence generation (selection bias)	Allocation concealment (selection bias)	Blinding of participants and personnel (performance bias)	Blinding of outcome assessment (detection bias)	Incomplete outcome data (attrition bias)	Selective reporting (reporting bias)	Other bias
Binderow 1994	?	?	-	-	+	-	?
da Fonseca 2011	+	?	-	-	+	?	+
Dag 2011	+	?	-	-	+	?	?
El Nakeeb 2009	?	?	-	-	+	-	?
Feo 2004	+	?	-	-	-	?	?
Hartsell 1997	?	?	-	-	+	?	-
Nematihonar 2018	+	?	-	-	+	?	?
Nie 2021	?	?	-	-	+	?	-
Ortiz 1996	?	?	-	-	+	?	?
Reissman 1995	?	?	-	-	+	?	?
Stewart 1998	+	?	-	-	-	?	?
Yoo 1998	?	?	-	-	-	?	-
Zhou 2006	?	?	-	-	+	?	-

Supplement Fig. 3. Forest plots of (A) postoperative complication (Clavien Dindo Classification I, II), (B) postoperative complication (Clavien Dindo Classification ≥III), (C) hospital stay, (D) readmission within 30 days, (E) readmission within 90 days and (F) postoperative mortality based on prehabilitation.

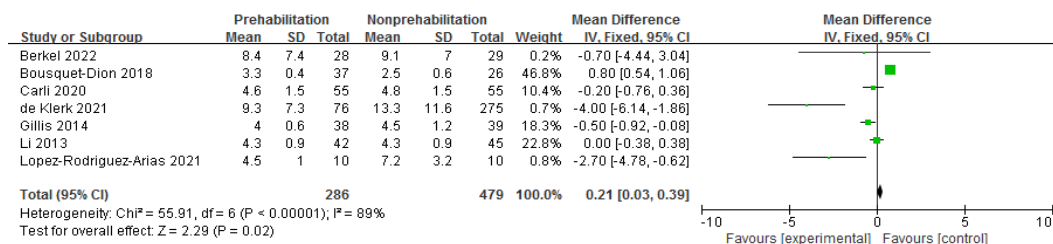
(A)



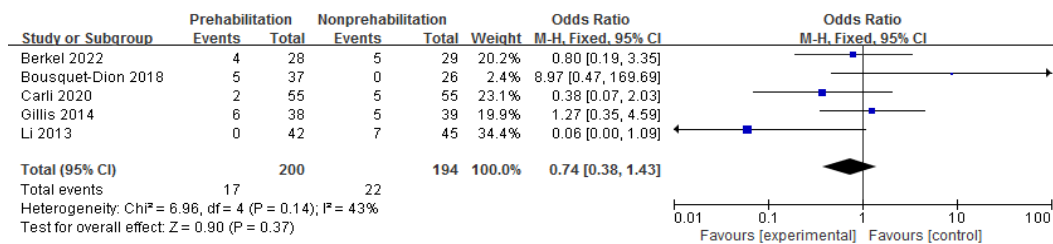
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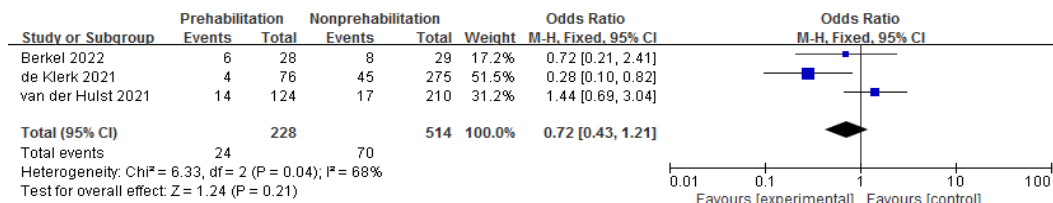
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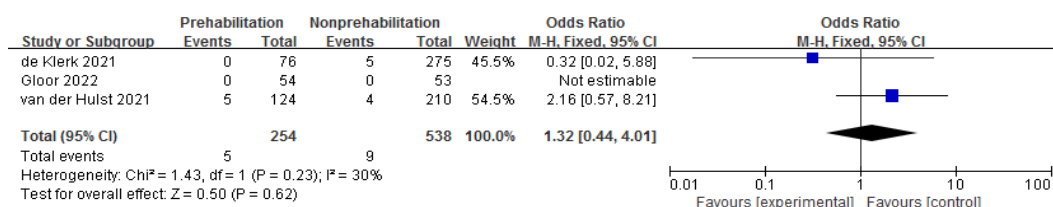
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(E)

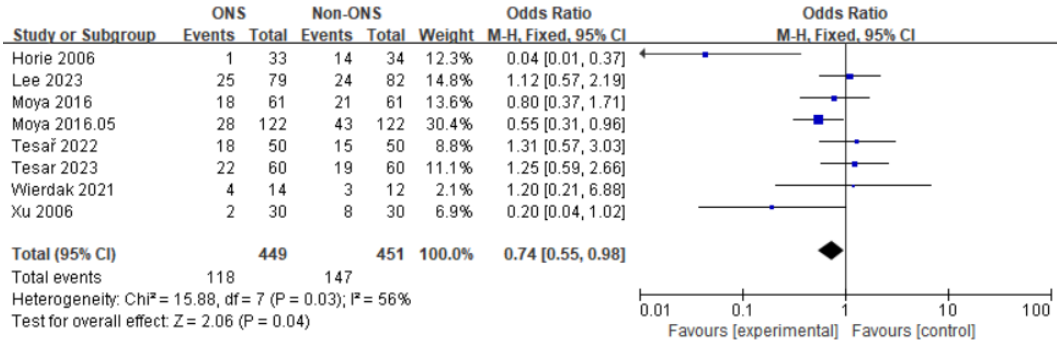


(F)

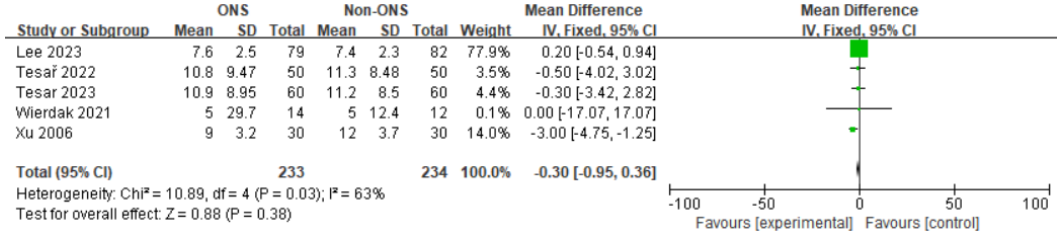


Supplement Fig. 4. Forest plots comparing oral nutritional supplement for (A) total postoperative complications and (B) length of hospital stay.

(A)

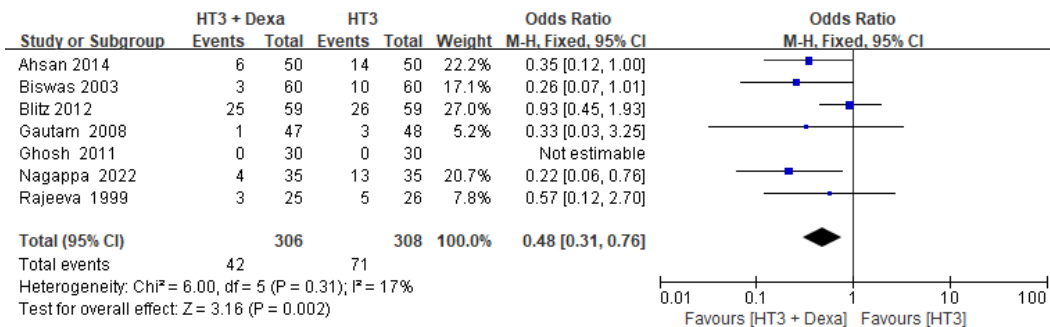


(B)

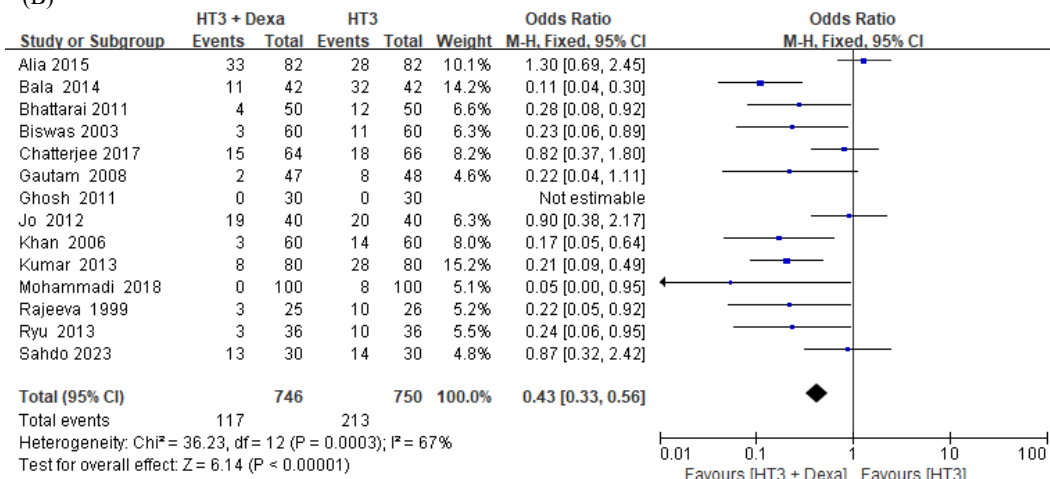


Supplement Fig. 5. Forest plots of (A) nausea and vomit (within 6 hours), (B) nausea and vomit (within 24 hours), (C) overall side effects, (D) headache, and (E) dizziness between combination therapy and monotherapy.

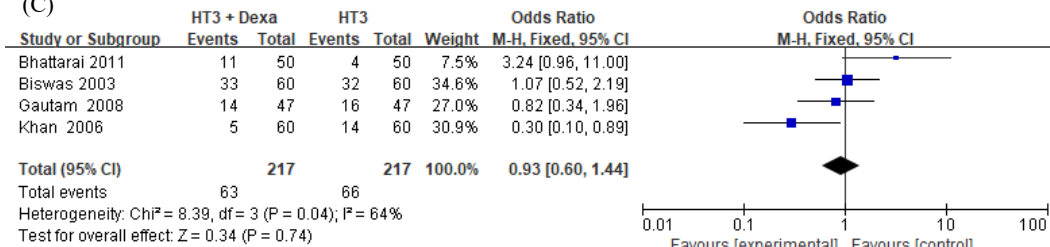
(A)



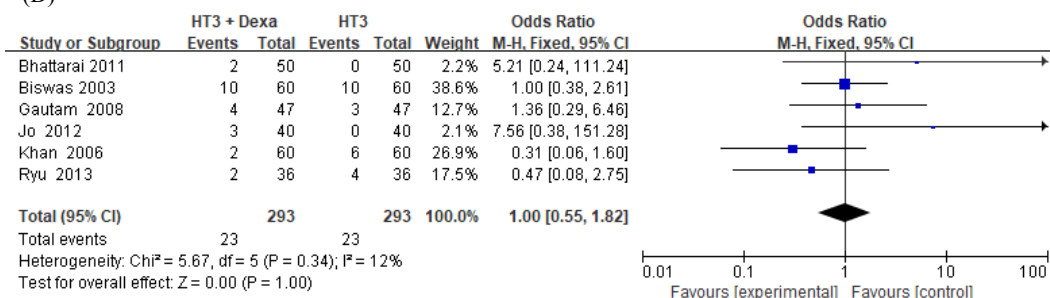
(B)



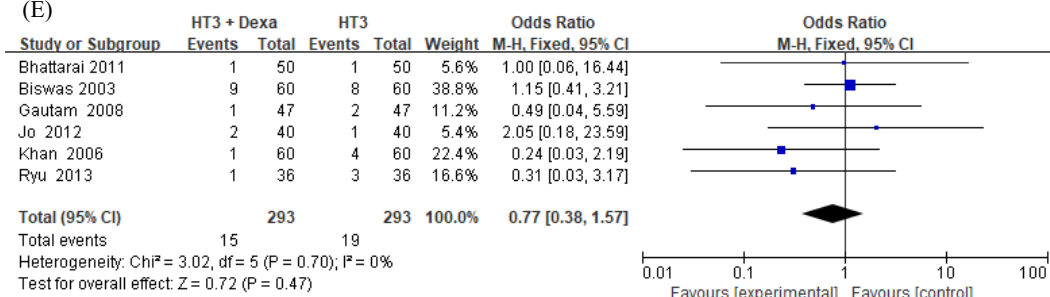
(C)



(D)

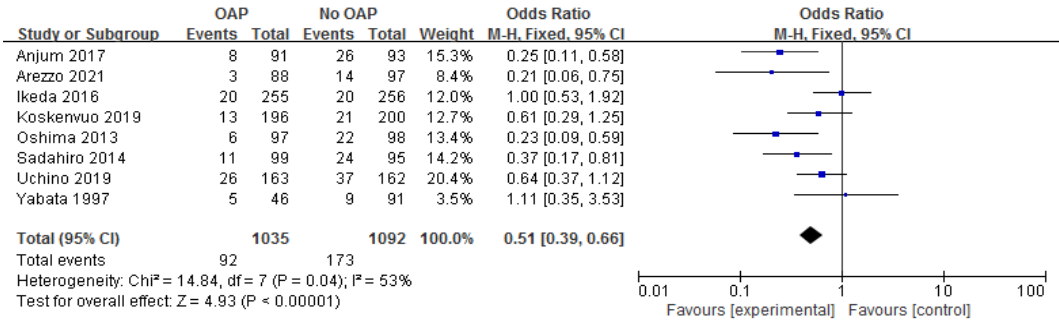


(E)

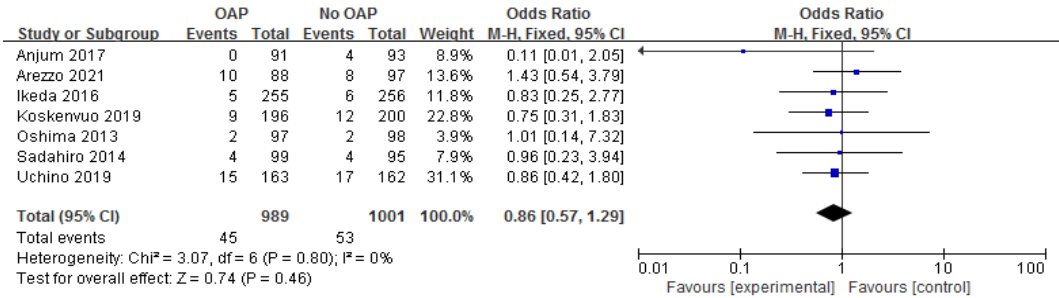


Supplement Fig. 6. Forest plots of (A) surgical site infections, (B) organ-space surgical site infections, and (C) readmission rates (within 30 days) in the combination of mechanical bowel preparation and oral antibiotic prophylaxis versus mechanical bowel preparation alone.

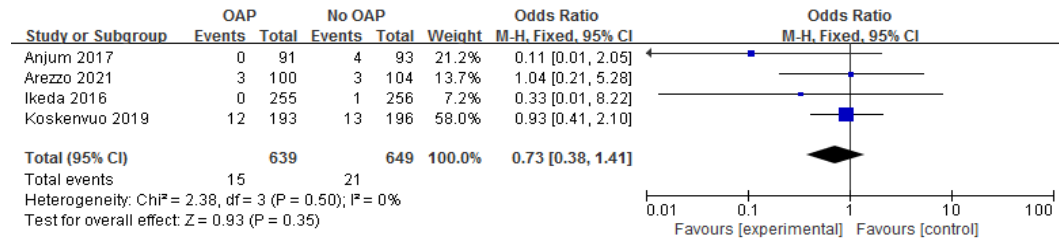
(A)



(B)

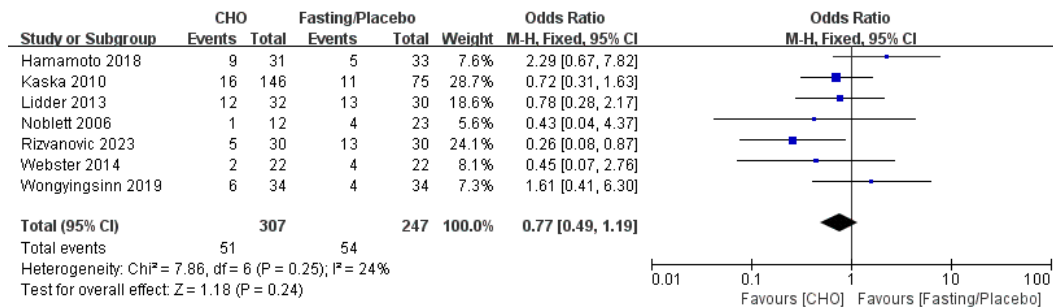


(C)

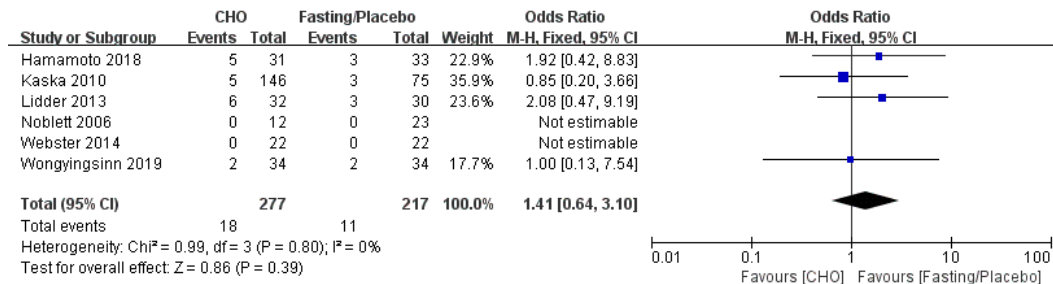


Supplement Fig. 7. Forest plots of (A) postoperative complications, (B) surgical site infections, (C) prolonged postoperative ileus, (D) time to flatus, and (E) hospital stay based on preoperative oral carbohydrate loading.

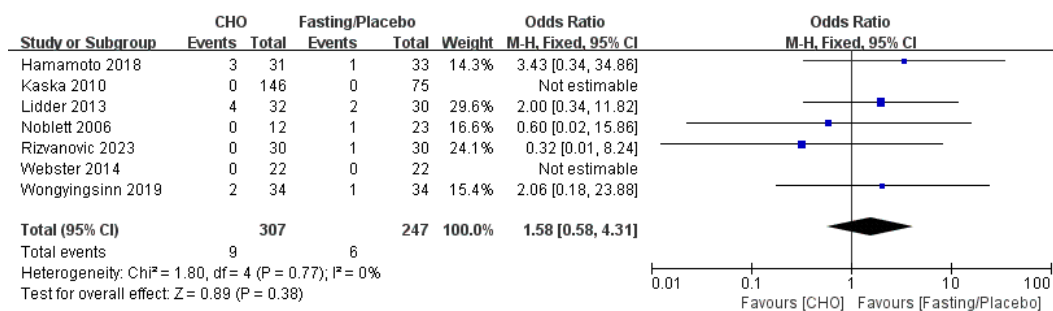
(A)



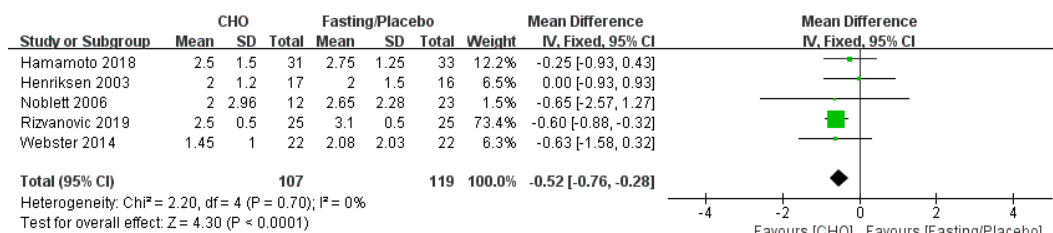
(B)



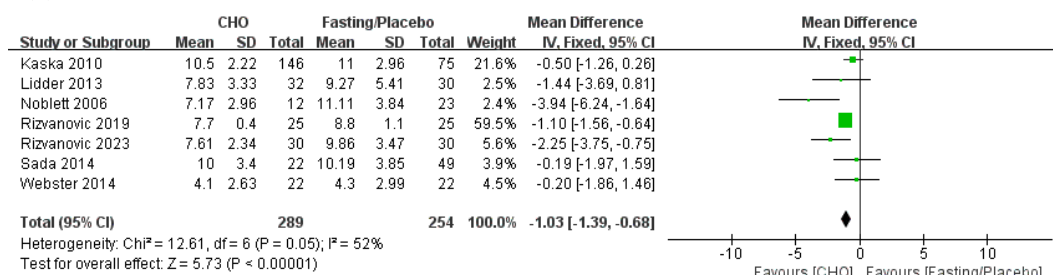
(C)



(D)

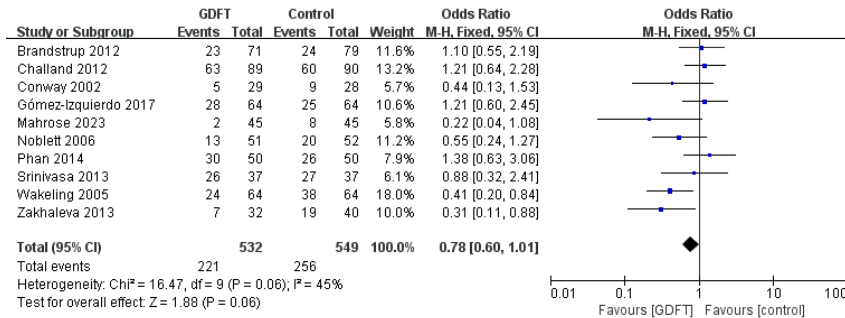


(E)

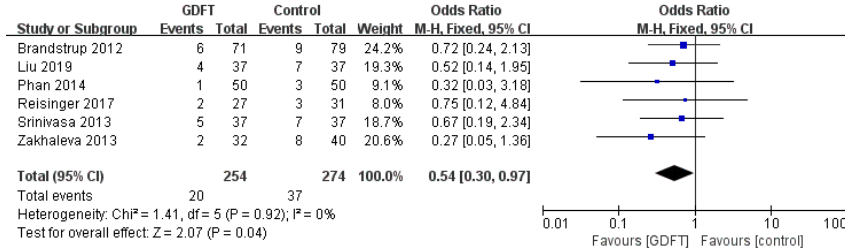


Supplement Fig. 8. Forest plots of (A) postoperative complications, (B) surgical site infections, (C) anastomotic leakage, (D) prolonged postoperative ileus, (E) mortality, and (F) hospital stay based on goal-directed fluid therapy.

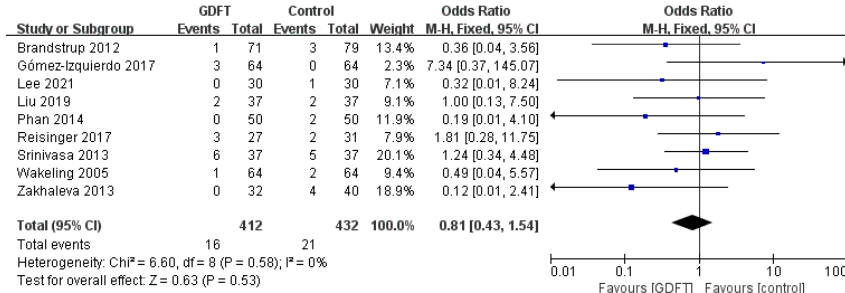
(A)



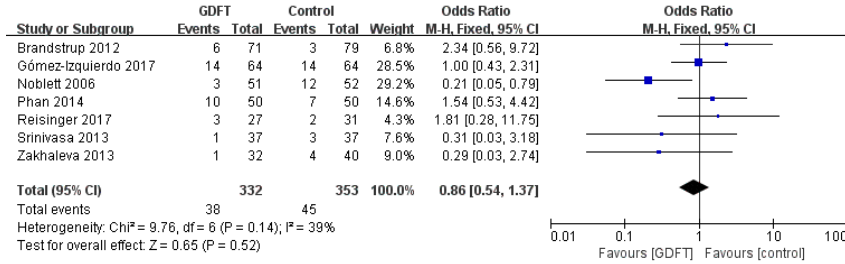
(B)



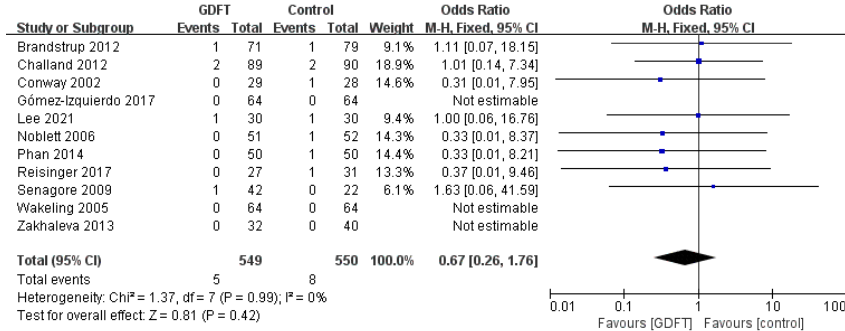
(C)



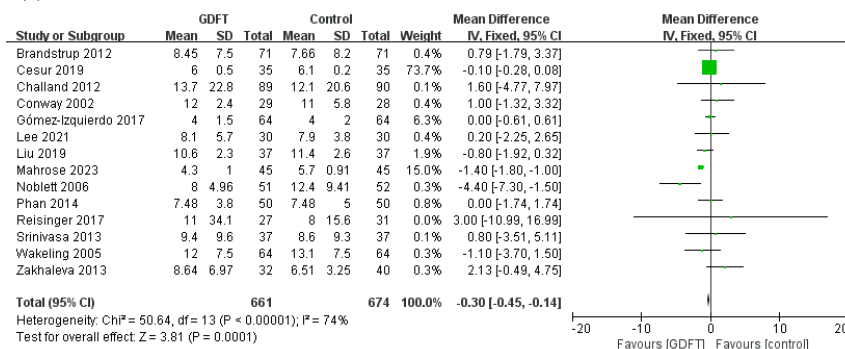
(D)



(E)

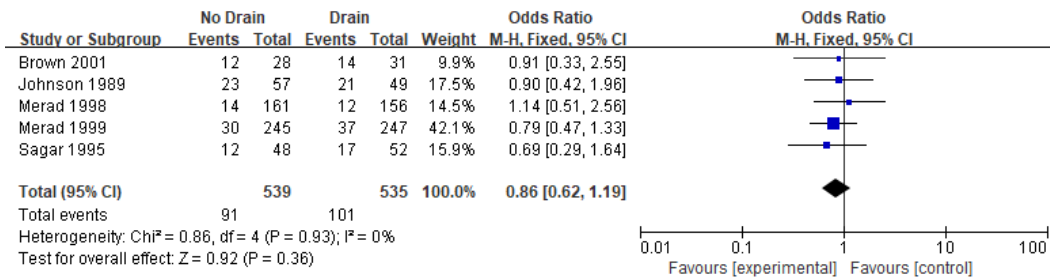


(F)

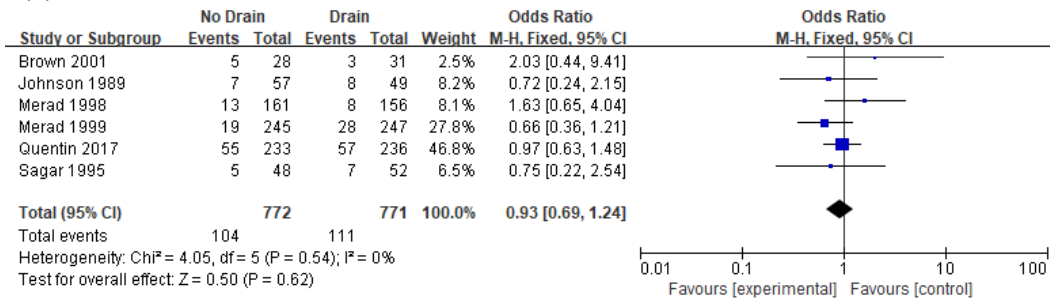


Supplement Fig. 9. Forest plots of (A) total postoperative complication, (B) anastomotic leakage, (C) pelvic fluid collection and sepsis, (D) intestinal obstruction, and (E) reoperation based on drain insertion.

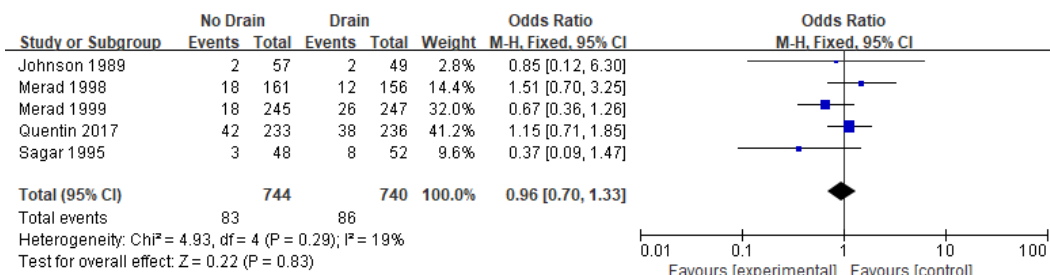
(A)



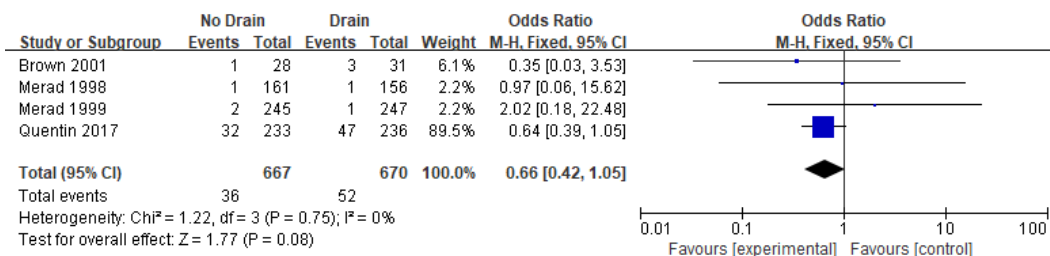
(B)



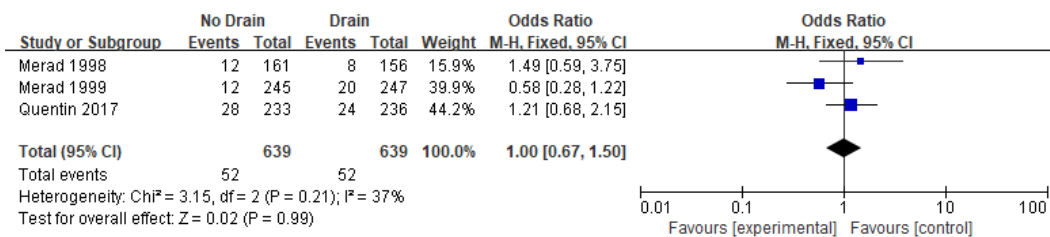
(C)



(D)

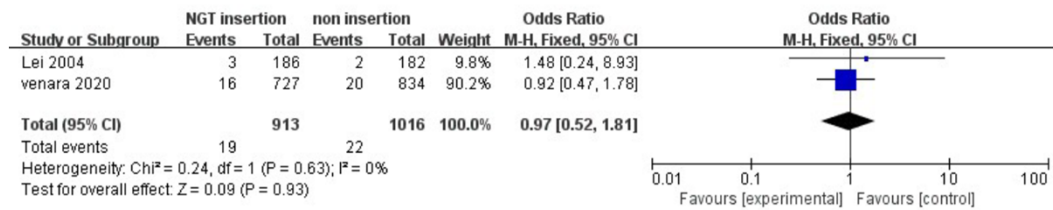


(E)

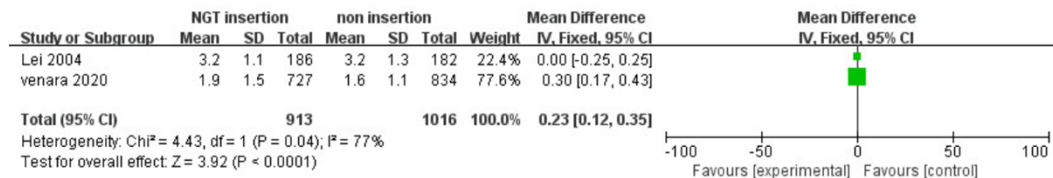


Supplement Fig. 10. Forest plots of (A) anastomotic leakage, (B) time to first bowel movement, (C) time to first flatus, (D) surgical site infections, (E) respiratory infections, and (F) hospital stay based on nasogastric tube insertion.

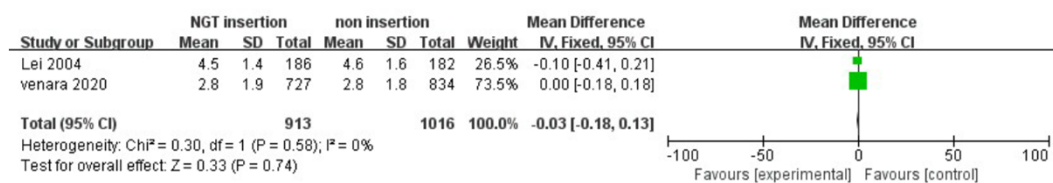
(A)



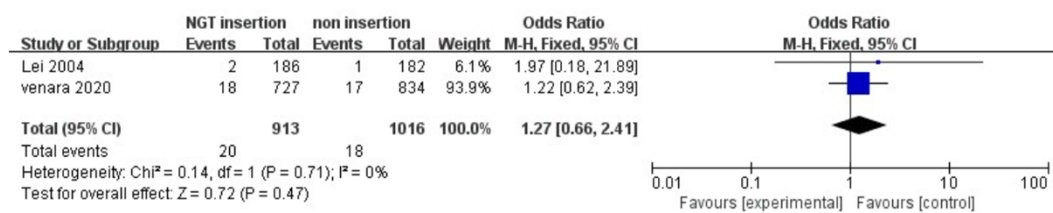
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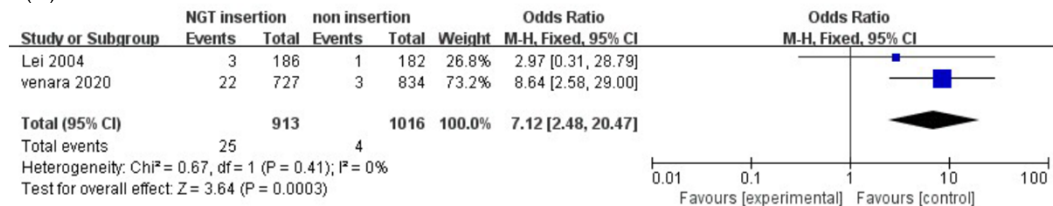
(C)



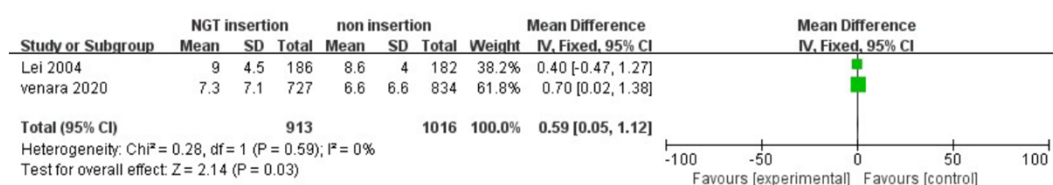
(D)



(E)

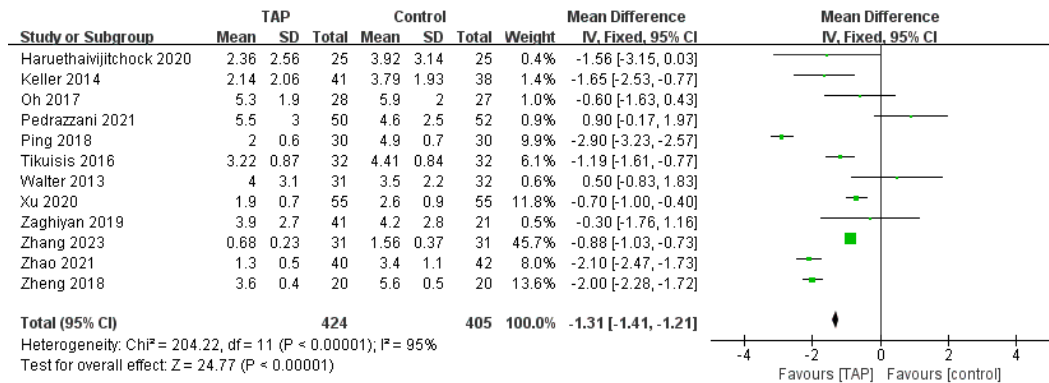


(F)

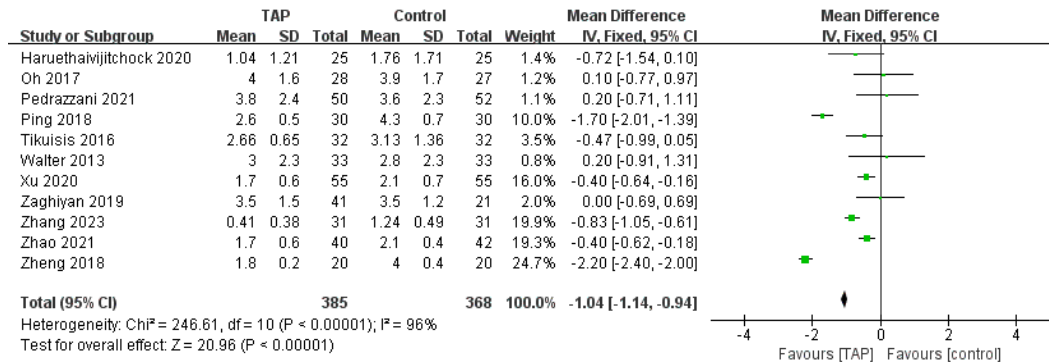


Supplement Fig. 11. Forest plots of (A) postoperative pain using the visual analogue scale (within 2 hours), (B) postoperative pain using the visual analogue scale (within 24 hours), (C) hospital stay, (D) postoperative nausea and vomit, and (E) prolonged postoperative ileus in transversus abdominis plane block versus conventional pain control method.

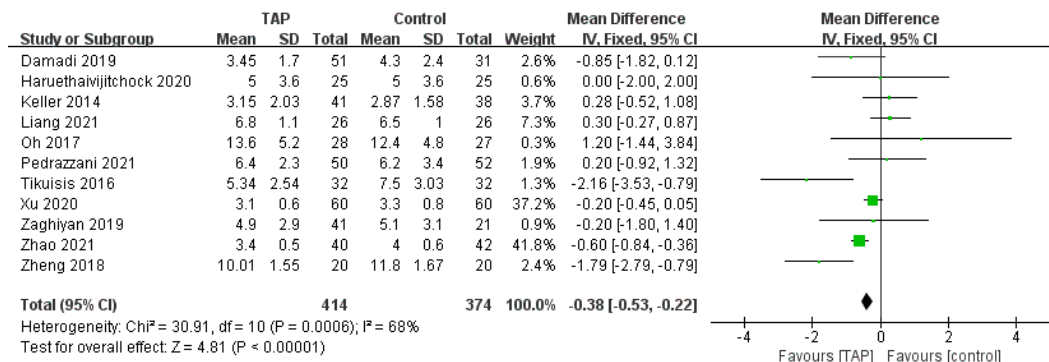
(A)



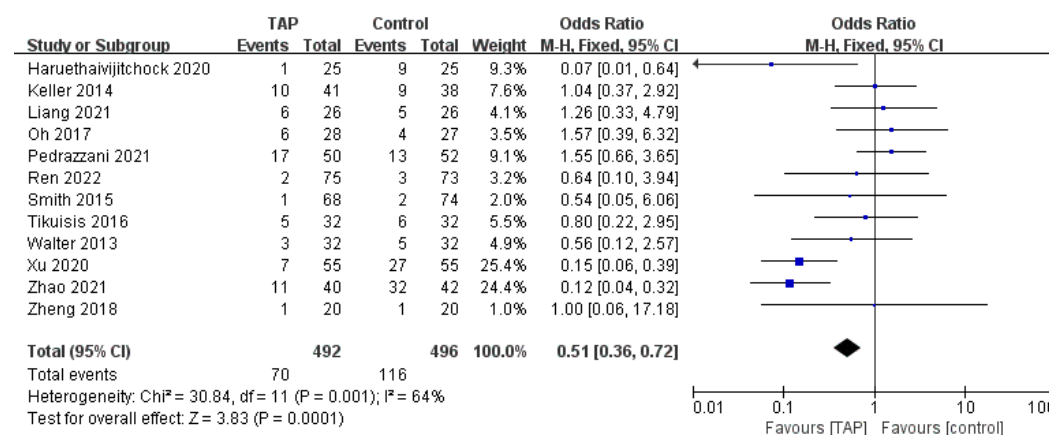
(B)



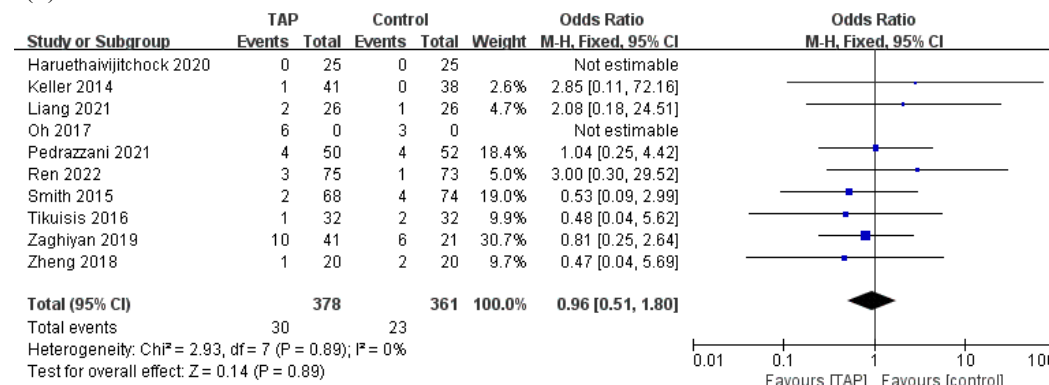
(C)



(D)

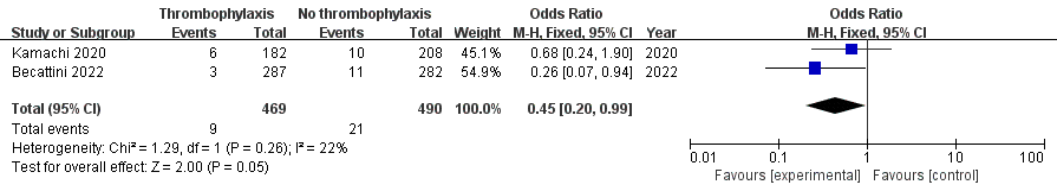


(E)

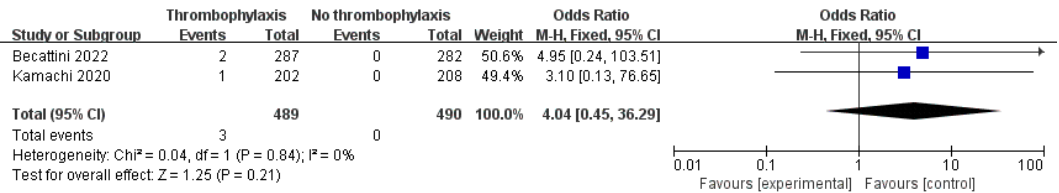


Supplement Fig. 12. Forest plots of (A) venous thromboembolism, (B) major bleeding, and (C) minor bleeding based on preoperative pharmacologic thromboprophylaxis.

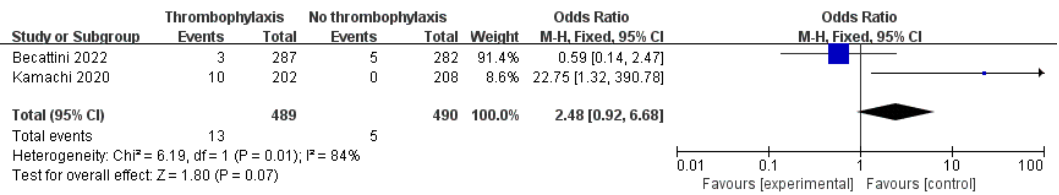
(A)



(B)

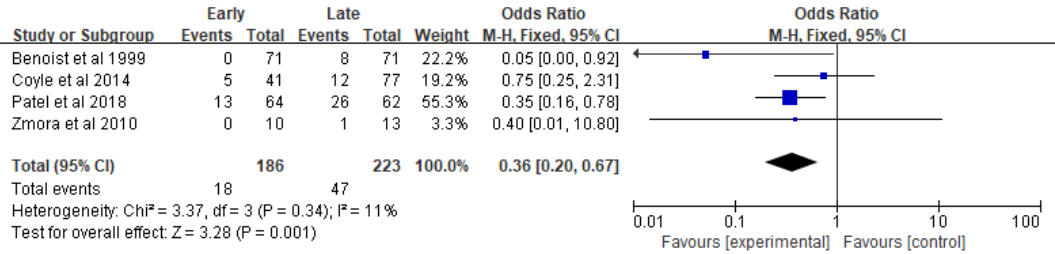


(C)

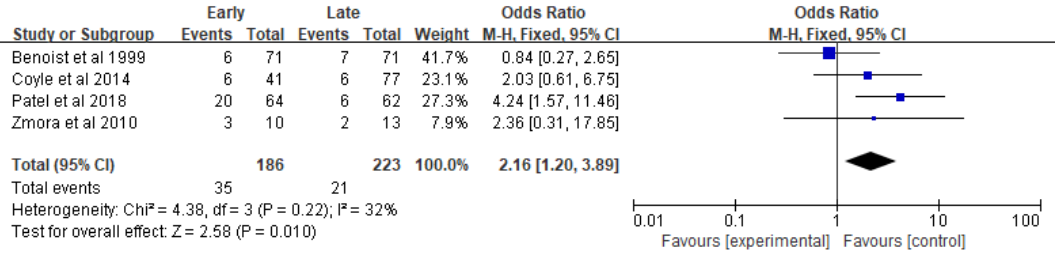


Supplement Fig. 13. Forest plots of (A) urinary infection and (B) acute urinary retention comparing early versus late urinary catheter removal.

(A)

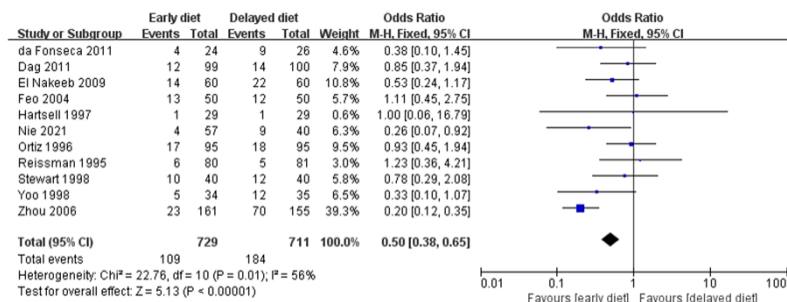


(B)

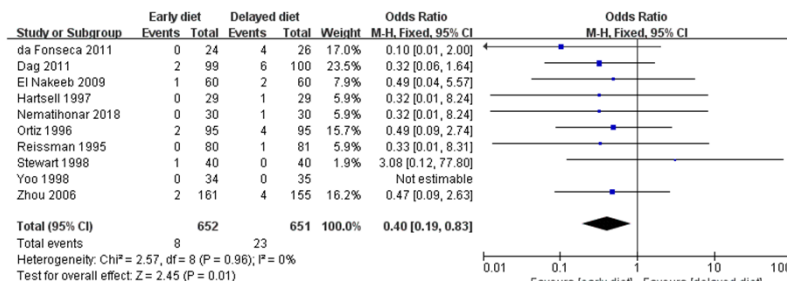


Supplement Fig. 14. Forest plots of (A) total postoperative complications, (B) anastomotic leakage, (C) time to flatus, (D) hospital stay, (E) mortality, (F) postoperative vomit, and (G) postoperative nasogastric tube insertion comparing early versus late feeding.

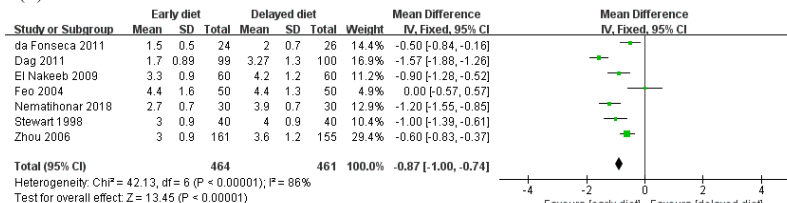
(A)



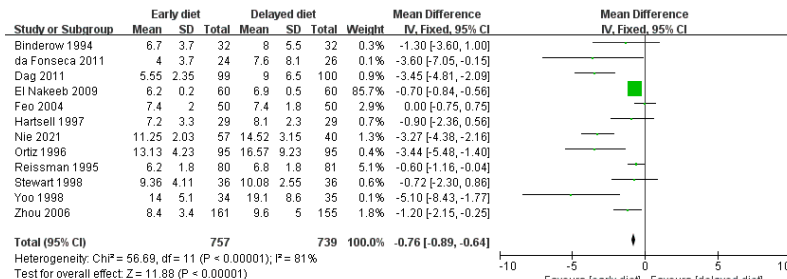
(B)



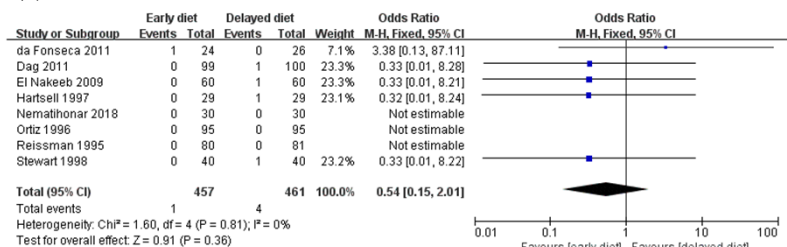
(C)



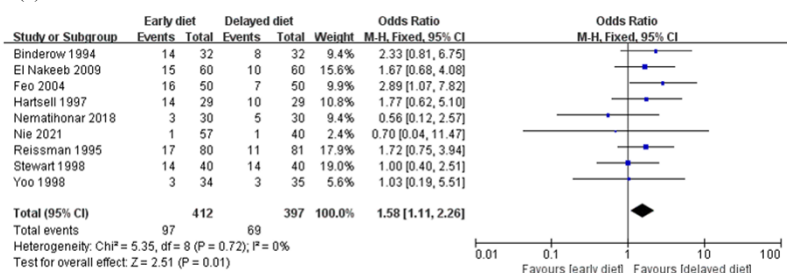
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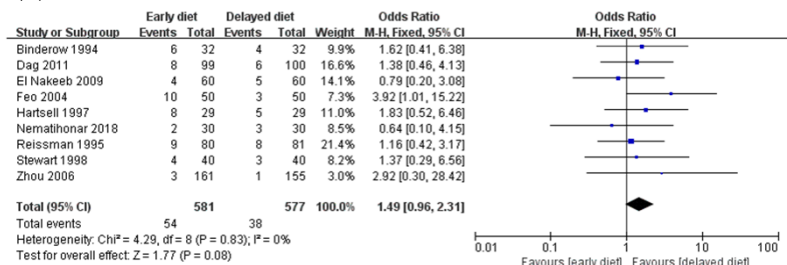
(E)



(F)



(G)



Supplement Fig. 15. Forest plots of total postoperative complication comparing early versus late mobilization.

