

HTA-centrum

HTA-stöd till nationella arbetsgrupper (NAG)
inom nationella programområden (NPO)

Supportdokument 2026:15
2026-03-09



Akut bukkirurgi för sköra äldre – Supportdokument från HTA- centrum

NPO: Kirurgi och plastikkirurgi

NAG: Akut bukkirurgi för sköra äldre

Sjukdomstillstånd: Akut bukkirurgi

Deltagare

NAG

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HTA-centrum

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HTA-centrum VGR och Medicinska biblioteket SU:s stöd till Nationella Arbetsgrupper (NAG)

HTA-centrum VGR och Medicinska biblioteket SU ger stöd till arbetet i NAG för de [Nationella Programområden \(NPO\)](#) som Västra sjukvårdsregionen har värdskap för.

- Bibliotekets stöd innebär att i samråd med NAG söka efter nationella och internationella medicinska riktlinjer och i vissa fall systematiska översikter och vetenskapliga originalartiklar. NAG väljer sedan riktlinjer/systematiska översikter/vetenskapliga artiklar som underlag för sin genomlysning av kunskapsläget och utformar kunskapsstöd.
- HTA-centrums stöd innebär vidare metodologisk support till arbetsgrupperna genom korta seminarier och workshops med utbildning i granskning av metodologisk kvalitet i medicinska riktlinjer och systematiska översikter/vetenskapliga artiklar.
- HTA-centrum granskar inte de riktlinjer/systematiska översikter/vetenskapliga artiklar som Nationella arbetsgrupper använder för att genomlysa kunskapsläget och granskar inte sakinnehållet i det kunskapsstöd respektive NAG producerar.

Litteratursökning sker enligt de fyra första stegen i den inventering av befintliga kunskapsstöd som beskrivs i det generiska ramverket: [Metodboken-Generiskt-Ramverk-v1.7-2025-06-26.pdf](#)

Undersök vilka kunskapsstöd som redan finns på det aktuella området. Inventeringen genomförs i ett till fem steg beroende på tillgången till underlag. NAG bedömer hur många steg som behöver genomföras för att få ett bra underlag för rekommendationerna. En förutsättning för denna hierarki är att underlagen har hög kvalitet och är aktuella. NAG gör avväganden om funnet material är inaktuellt och inte kan användas. Brister det underlag som identifieras i kvalitet eller ej är aktuellt går man vidare nedåt i hierarkin.

1. I första hand används kunskapsunderlag och rekommendationer som utarbetats nationellt.
2. I andra hand används internationella rekommendationer (guidelines).
3. I tredje hand sammanställningar av forskning (systematic reviews/systematiska översikter). Så kallade Reviews/Reviewartiklar (till skillnad från systematic reviews) ska undvikas eftersom de inte utarbetas med en systematisk arbetsmetodik.
4. I fjärde hand kan enskilda vetenskapliga studier identifieras, granskas och vägas samman. Regionala HTA-organisationer kan ge stöd i arbetet (se mer information nedan).
5. I sista hand används insamlad beprövad erfarenhet. Finns ett begränsat antal studier kan dessa kombineras med beprövad erfarenhet. **Detta stöttar HTA-centrum inte med.**

Support till denna NAG:

NAG Sköra äldre akut bukkirurgi hade den 24 april 2024 ett möte med bibliotekarie från HTA-centrum för att prata om frågeställning, informera om vad HTA-centrum kan stötta med samt komma överens om en tidsplan.

Efter överenskommelse har NAG sedan fått hjälp med litteratursökning av riktlinjer, systematiska översikter och originalartiklar. De har även fått tre workshops om granskning av riktlinjer (AGREE 2), en workshop om granskning av systematiska översikter (SnabbSTAR 2 och ROBIS), samt en ytterligare workshop där vi tillsammans granskade och bedömde en systematisk översikt med ROBIS.

Litteratursökning/Inventering av kunskapsstöd:

- Nivå 1 (bilaga 1)
- Nivå 2 (bilaga 1)
- Nivå 3 (bilaga 2)
- Nivå 4 (bilaga 2)

HTA-centrum har introducerat arbetsgruppen till följande verktyg via workshops eller föreläsningar:

- AGREE 2 (24 september, 17 oktober och 6 november 2024)
- SnabbSTAR 2 (20 maj 2025)
- ROBIS (20 maj och 20 november 2025)
- Artikelgranskningsmallar
- GRADE för det vetenskapliga underlaget
- Utformning av rekommendationer

Bilaga 1: Dokumentation sökning riktlinjer och kunskapsstöd NAG Akut bukkirurgi för sköra äldre

Datum: 2024-05-03

Tidsbegränsning: 2019-

Språk: engelska, svenska, danska, norska, tyska, franska

Söckällor – Nationella – Riktlinjer/ Evidenssammanställningar	Sökord/ Browsa	Antal träffar	Antal relevanta träffar	Information om referensen: Titel, författare, år samt länk till fulltext
Nationellt kliniskt kunskapsstöd https://nationelltklinisktkunskapsstod.se/	Akut buk	80	2	Nationellt vårdprogram för gallstenssjukdom 2023 (träff via flera sökord)
	Buksmärta	56	2	
	Bukkirurgi	6	2	Nationellt vårdprogram för vuxna med inflammatorisk tarmsjukdom (IBD) 2023 (träff via flera sökord)
	Gastrokirurgi	0	0	
	Gastrointestinal	19	2	
	Laparotomi	2	1	
	Laparoskopi	3	1	
	Celioskopi	0	0	
	Peritoneoskopi	0	0	
	Sköra	8	1	
	Skörhet	18	0	
	Äldre	118	2	
	Geriatrisk	1	0	
Geriatrisk	5	0		
SBU www.sbu.se	Akut buk	8	0	
	Buksmärta	2	0	
	Bukkirurgi	1	0	
	Gastrokirurgi	0	0	
	Gastrointestinal	0	0	
	Laparotomi	0	0	

	Begränsat till: <ul style="list-style-type: none"> • Expertgruppsutlåtanden • Övrigt 			
Läkemedelsverket www.lakemedelsverket.se	Akut buk Buksmärt Bukkirurgi Gastrokirurgi Gastrointestinal Laparotomi Laparoskopi Celioskopi Peritoneoskopi Sköra Skörhet Äldre Geriatrisk Geriatrisk	115 9 0 0 19 0 0 0 0 1 4 112 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0	
	Begränsat till: <ul style="list-style-type: none"> • Publiceringsdatum 2019- 			

Sökkällor – Nationella – kompletterande söktjänster (beroende på frågeställning)	Sökord/ Browsa	Antal träffar	Antal relevanta träffar	Titel, författare, år samt länk till fulltext
Nationella läkarföreningar/specialistföreningar	Svensk Förening för Akutsjukvård Hittar inga kliniska riktlinjer		0	
Sök efter specifik förening: https://slf.se/hitta-forening/	Svensk förening för anestesi och intensivvård Browsat alla riktlinjer		0	

	<p>Svensk Gastroenterologisk Förening Browsat:</p> <ul style="list-style-type: none"> • Riktlinjer och rekommendationer • Vårdprogram <p>Svensk Geriatrisk Förening Hittar inga kliniska riktlinjer</p> <p>Svensk kirurgisk förening Browsat alla vårdprogram</p> <p>Svenska Smärtläkarföreningen Hittar inga kliniska riktlinjer</p>		0	
			0	
			0	
			0	

Sökkällor – Regionala - HTA/Evidenssammanställningar	Sökord/ Browsa	Antal träffar	Antal relevanta träffar	Titel, författare, år samt länk till fulltext
<i>HTA-rapporterna är även sökbara på SBU:s sida men när man går in på respektive organisations sida får man även pågående rapporter samt granskningar som gjorts som inte är regelrätta HTA-rapporter.</i>				
CAMTÖ HTA Regionala HTA-rådet https://www.regionorebrolan.se/sv/forskning/kontakt-och-organisation/hta-enheten-camto/	Browsat alla rapporter 2019 -		0	
HTA-centrum Västra Götaland	Browsat alla rapporter 2019 -		0	

https://www.vgregion.se/halsa-och-varld/vardgivarwebben/utveckling--uppfoljning/htacentrum/regional-activity-based-hta/				
HTA Region Stockholm (tidigare Metodr�det Stockholm-Gotland) https://www.chis.regionstockholm.se/hta/rappporter/	Browsat alla rapporter 2018-2019 -		0	
Regional samverkansgrupp HTA (tidigare Metodr�det) i Syd�stra sjukv�rdsregionen https://sydostrasjukvardsregionen.se/samverkansgrupper/hta/genomforda-bedomningar/	Browsat alla rapporter 2019 -		0	
HTA Syd https://vardgivare.skane.se/kompetens-utveckling/sakkunniggrupper/hta-skane/#110365	Browsat alla rapporter 2019 -		0	
Medicinska r�det, Region Dalarna https://www.regiondalarna.se/plus/vard/ovrig-halso--och-sjukvard/medicinska-radet/	Browsat alla rapporter		0	

S�kk�llor – Internationella – Guidelines och kunskapsunderlag	S�kord/ Browsta	Antal tr�ffar	Antal relevanta tr�ffar	Information om referensen: Titel, f�rfattare, �r samt l�nk till fulltext
Trip Pro	((((surgery OR surgical OR operative OR perioperative OR intraoperative OR preoperative OR postoperative))	312 unika tr�ffar		Se abstracts i separat Wordfil samt EndNote-bibliotek.

	<p>AND (abdomen OR abdominal OR gastric OR gastrointestinal OR peritoneal OR retroperitoneal)) OR (laparotomy OR minilaparotomy OR laparoscopy OR celioscopy OR peritoneoscopy))</p> <p>AND (acute OR emergency OR urgent)</p> <p>AND (frail OR frailty OR frailties OR frailness OR debility OR debilities))</p> <p>Begränsat till:</p> <ul style="list-style-type: none"> • 2019-2024 • Guidelines 	(sökningen gav 320 träffar, men 8 dubletter är borttagna)		
<p>GIN (Guidelines International Network) https://guidelines.ebmportal.com/</p>	<p>abdomen abdominal gastric gastrointestinal peritoneal retroperitoneal Digestive System Surgical Procedures surgery surgical operative perioperative intraoperative preoperative postoperative laparotomy minilaparotomy</p>	<p>0 1 2 6 2 0 1 7 27 11 4 3 4 3 0 0</p>	<p>0 0 0 0 0 0 0 0 0 0 0 0 0 0 0</p>	

	laparoscopy celioscopy peritoneoscopy frail frailty debility elderly old older geriatric Begränsat till: <ul style="list-style-type: none"> • 2019 – • engelska, svenska, danska, norska, tyska, franska 	1 0 0 0 0 0 0 21 17 7	0 0 0 0 0 0 0 0 0	
PubMed	Se sökhistorik längst ned i dokumentet.	6		Se abstracts i separat Wordfil samt EndNote-bibliotek.
Google.com I Google gör vi en kompletterande sökning för att fånga upp eventuella riktlinjer vi inte hittat någon annanstans. Träffar som hittats via annan källa, redovisas inte här. Inte heller äldre versioner av träffar som hittats via annan källa redovisas här.	Engelska: ("acute laparotomy" OR "emergency laparotomy" OR "urgent laparotomy" OR "acute laparoscopy" OR "emergency laparoscopy" OR "urgent laparoscopy" OR (((("acute surgery" OR "emergency surgery" OR "urgent surgery") AND (frail OR frailty OR debility) AND guideline	80+	1	Scott MJ, Aggarwal G, Aitken RJ, Anderson ID, Balfour A, Foss NB, Cooper Z, Dhesei JK, French WB, Grant MC, Hammarqvist F. Consensus guidelines for perioperative care for emergency laparotomy Enhanced Recovery After Surgery (ERAS®) Society recommendations Part 2—Emergency laparotomy: intra-and postoperative care. World journal of surgery. 2023 Aug;47(8):1850-80.
	Begränsat till: <ul style="list-style-type: none"> • 2019 – Gick igenom de 80 första träffarna.			

	<p>Svenska: ("Akut buk" OR "akut buksmärta" OR "akut bukkirurgi" OR "akut gastrokirurgi" OR "akut laparotomi" OR "akut laparoskopi" OR "akut celioskopi" OR "akut peritoneoskopi") AND (sköra OR skörhet) AND (rekommendation OR riktlinje)</p> <p>Begränsat till:</p> <ul style="list-style-type: none"> • 2019 – 	28	1	LÖF 2022 Behandlingsrekommendationer för den sköra äldre patienten vid akut laparotomi
<p>Canadian Agency for Drugs and Technologies in Health (CADTH) https://www.cadth.ca/</p>	<p>surgery laparotomy minilaparotomy laparoscopy celioscopy peritoneoscopy frail frailty debility</p> <p>Begränsat till:</p> <ul style="list-style-type: none"> • Health Technology Review • 2019 - 	162	0	
<p>National Institute for Health and Care Excellence, England UK (NICE) https://www.nice.org.uk/guidance/published</p> <p><i>Går att söka med "", men då inte trunkera. Trunkering funkar utan "".</i> <i>Efter sökning, begränsa till:</i></p>	<p>surgery laparotomy minilaparotomy laparoscopy celioscopy peritoneoscopy frail frailty</p>	7	0	

<ul style="list-style-type: none"> Guidance 	debility Begränsat till: <ul style="list-style-type: none"> Guidance 2019 -	0	0	
Nasjonale faglige retningslinjer (Norge) https://www.helsedirektoratet.no/produkter?tema=retningslinje	Browsat alla riktlinjer		0	
Folkehelseinstituttet (Norge) https://www.fhi.no/ku/metodevurdering/	Browsat: <ul style="list-style-type: none"> Metodevurdering Rapport 		0	
Nationale Kliniske Anbefalinger og Retningslinjer (Danmark) https://www.sst.dk/da/Fagperson/Retningslinjer-og-procedurer/NKA-og-NKR/NKR-og-NKA-efter-omraade	Browsat: <ul style="list-style-type: none"> ældre og demens smerter øvrige 		0	
Center for kliniske retningslinjer (Danmark) https://cfkr.dk/retningslinier/godkendte-retningslinjer/	Browsat alla riktlinjer		0	
Behandlingsrådet (Danmark) https://behandlingsraadet.dk/	Browsat alla evalueringer & analyser		0	
SIGN https://www.sign.ac.uk/our-guidelines	Browsat alla riktlinjer		0	

Sökhistorik PubMed 240503

Search	Query	Results
#8	Search: #4 AND #5 AND #6 Filters: in the last 5 years, , Danish, English, French, German, Norwegian, Swedish Sort by: Most Recent	6
#7	Search: #4 AND #5 AND #6 Sort by: Most Recent	13
#6	Search: "Guideline"[pt] OR "practice guideline"[pt] OR "consensus development conference"[pt] OR "consensus development conference, NIH"[pt] OR guideline*[ti] OR standards[ti] OR consensus*[ti] OR recommendat*[ti] OR guideline*[cn] OR standards[cn] OR consensus*[cn] OR recommendat*[cn] OR "practice parameter"*[ti] OR statement*[ti] OR "practice bulletin"*[ti] OR CPG[ti] OR CPGs[ti] OR "best practice"*[ti] OR (care[ti] AND (path[ti] OR paths[ti] OR pathway[ti] OR pathways[ti] OR map[ti] OR maps[ti] OR plan[ti] OR plans[ti] OR standard[ti])) OR ((critical[ti] OR clinical[ti] OR practice[ti]) AND (path[ti] OR paths[ti] OR pathway[ti] OR pathways[ti] OR protocol*[ti])) OR (algorithm*[ti] AND (pharmacotherap*[ti] OR chemotherap*[ti] OR chemotreatment*[ti] OR therap*[ti] OR treatment*[ti] OR intervention*[ti])) OR (algorithm*[ti] AND (screening[ti] OR examination[ti] OR test[ti] OR tested[ti] OR testing[ti] OR assessment*[ti] OR diagnosis[ti] OR diagnoses[ti] OR diagnosed[ti] OR diagnosing[ti])) OR guideline*[ot] OR standards[ot] OR consensus*[ot] OR recommendat*[ot] OR "practice parameter"*[ot] OR statement*[ot] OR "practice bulletin"*[ot] OR CPG[ot] OR CPGs[ot] OR "best practice"*[ot] OR (care[ot] AND (path[ot] OR paths[ot] OR pathway[ot] OR pathways[ot] OR map[ot] OR maps[ot] OR plan[ot] OR plans[ot] OR standard[ot])) OR ((critical[ot] OR clinical[ot] OR practice[ot]) AND (path[ot] OR paths[ot] OR pathway[ot] OR pathways[ot] OR protocol*[ot])) OR (algorithm*[ot] AND (pharmacotherap*[ot] OR chemotherap*[ot] OR chemotreatment*[ot] OR therap*[ot] OR treatment*[ot] OR intervention*[ot])) OR (algorithm*[ot] AND (screening[ot] OR examination[ot] OR test[ot] OR tested[ot] OR testing[ot] OR assessment*[ot] OR diagnosis[ot] OR diagnoses[ot] OR diagnosed[ot] OR diagnosing[ot])) OR (("Systematic review"[ti] OR "systematic review"[pt] OR "systematic review"[ot]) AND ("practice guideline"*[tiab] OR "treatment guideline"*[tiab] OR "clinical guideline"*[tiab] OR "guideline recommendation"*[tiab])) Sort by: Most Recent	318,918
#5	Search: (Frail Elderly[mh] OR frail*[tiab] OR debilit*[tiab]) Sort by: Most Recent	79,495
#4	Search: #1 OR #2 OR #3 Sort by: Most Recent	102,949
#3	Search: ((acute[tiab] OR emergen*[tiab] OR urgent[tiab]) AND (abdomen*[tiab] OR abdomin*[tiab] OR gastr*[tiab] OR peritone*[tiab] OR retroperitone*[tiab]) AND (Surgical Procedures, Operative[mh] OR surger*[tiab] OR surgical[tiab] OR operative[tiab] OR perioperat*[tiab] OR intraoperat*[tiab] OR preoperat*[tiab] OR postoperat*[tiab])) Sort by: Most Recent	63,112
#2	Search: (Acute abdomen[mh] AND (Surgical Procedures, Operative[mh] OR surger*[tiab] OR surgical[tiab] OR operative[tiab] OR perioperat*[tiab] OR intraoperat*[tiab] OR preoperat*[tiab] OR postoperat*[tiab])) Sort by: Most Recent	4,512
#1	Search: ((Digestive System Surgical Procedures[mh] OR Laparotomy[mh] OR laparotom*[tiab] OR minilaparotom*[tiab] OR Laparoscopy[mh] OR laparoscop*[tiab] OR celioscop*[tiab] OR peritoneoscop*[tiab]) AND (acute[tiab] OR emergen*[tiab] OR urgent[tiab])) Sort by: Most Recent	63,816

Bilaga 2: Dokumentation sökning systematiska översikter och originalstudier NAG Akut bukkirurgi sköra äldre

Datum: 20250228

Sökfrågor:

- A) Hur ser ett optimerat omhändertagande ut vid akut bukkirurgi för sköra äldre?
B) Vilka riskfaktorer finns vid akut bukkirurgi hos sköra äldre?
C) Vilka patienter bör ej genomgå akut bukkirurgi trots att indikation för kirurgi finns;
Hur kan man värdera risk gentemot nytta?
Hur ser livskvaliteten ut bland sköra/multisjuka/högrisk-patienter efter kirurgi?
Hur hantera etiska aspekter?
Hur kommunicera risker på ett förståeligt sätt till patienter?
Finns evidensbaserad algoritm/beslutsstöd eller strukturerade bedömningsinstrument som kan vägleda beslut om att avstå kirurgi?

Eventuella avgränsningar

Språk: engelska, franska, tyska

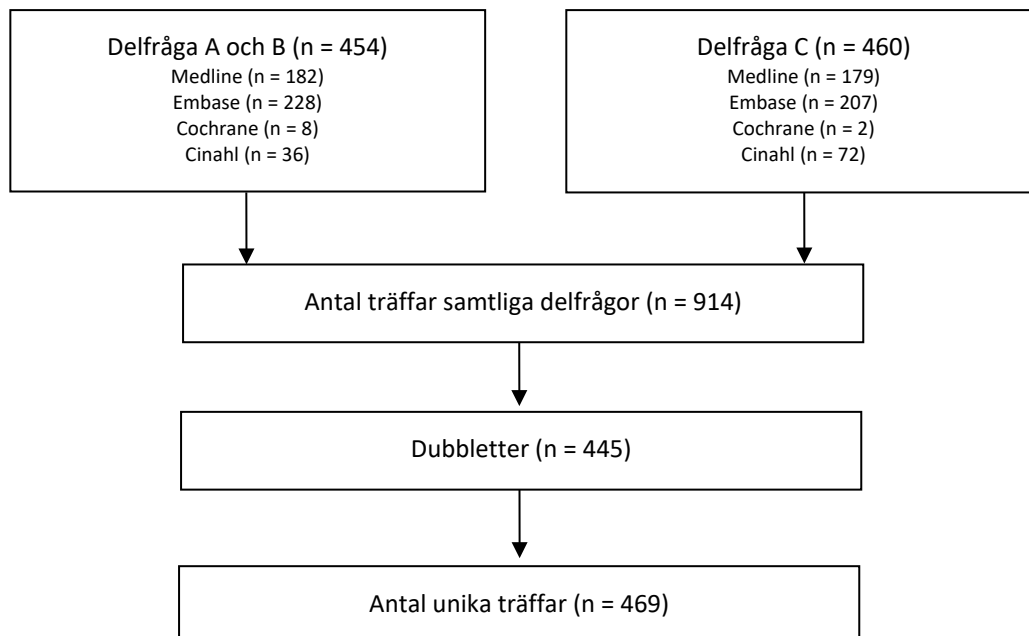
Tid: För delfråga A och B: 2022-, delfråga C ingen begränsning

Studietyper: systematiska översikter, originalstudier

Sökresultat: 469 ref

Databaser som använts: Medline, Embase, Cochrane Library, Cinahl

Sökstrategi: se sid 2-



Sökhistorik delfråga A och B

Databas: Ovid MEDLINE(R) ALL (OvidSP)

Datum: 2025-02-28

Antal träffar: 182 ref

#	Searches	Results
1	exp Frail Elderly/	17004
2	(frail* or debilit*).ab,kf,ti.	82662
3	1 or 2	86881
4	exp Digestive System Surgical Procedures/	436890
5	exp Laparotomy/	20700
6	exp Laparoscopy/	124986
7	(laparotom* or minilaparotom* or laparoscop* or celioscop* or peritoneoscop*).ab,kf,ti.	213076
8	4 or 5 or 6 or 7	611096
9	(acute or emergen* or urgent).ab,kf,ti.	2172330
10	8 and 9	66290
11	exp Abdomen, Acute/	10001
12	((acute or emergen* or urgent) and (abdomen* or abdomin* or gastr* or peritone* or retroperitone* or digestive)).ab,kf,ti.	154970
13	11 or 12	157844
14	exp Surgical Procedures, Operative/	3702570
15	(surger* or surgical or operative or perioperat* or intraoperat* or preoperat* or postoperat*).ab,kf,ti.	2907605
16	14 or 15	5139314
17	13 and 16	68237
18	10 or 17	107888
19	3 and 18	606
20	exp Patient Care/	1177539
21	exp Perioperative Medicine/	177
22	exp Patient Care Planning/	69666
23	exp Risk Factors/	1025456
24	(care or procedure* or therap* or treatment* or protocol* or pathway* or clinical path* or management* or risk or risks).ab,kf,ti.	14049103
25	20 or 21 or 22 or 23 or 24	14659550
26	19 and 25	536
27	(comment or editorial or letter).pt.	2314455
28	26 not 27	527
29	limit 28 to (english or french or german)	512
30	limit 29 to yr="2022 -Current"	182

Databas: Embase 1974 to 2025 February 27

Datum: 2025-02-28

Antal träffar: 228 ref

#	Searches	Results
1	exp frail elderly/	13096
2	(frail* or debilit*).ab,kf,ti.	122732
3	1 or 2	126250
4	exp abdominal surgery/	1040840
5	(laparotom* or minilaparotom* or laparoscop* or celioscop* or peritoneoscop*).ab,kf,ti.	332221
6	4 or 5	1102630
7	(acute or emergen* or urgent).ab,kf,ti.	3008453
8	6 and 7	143073
9	exp acute abdomen/	15611
10	((acute or emergen* or urgent) and (abdomen* or abdomin* or gastr* or peritone* or retroperitone* or digestive)).ab,kf,ti.	252486
11	9 or 10	256131
12	exp surgery/	6388953
13	(surger* or surgical or operative or perioperat* or intraoperat* or preoperat* or postoperat*).ab,kf,ti.	3831604
14	12 or 13	7283710
15	11 and 14	130150
16	8 or 15	211229
17	3 and 16	1586
18	exp patient care/	1122255
19	exp perioperative period/	1265240
20	exp perioperative medicine/	963
21	exp risk factor/	1516551
22	(care or procedure* or therap* or treatment* or protocol* or pathway* or clinical path* or management* or risk or risks).ab,kf,ti.	18469884
23	18 or 19 or 20 or 21 or 22	19442077
24	17 and 23	1463
25	limit 24 to (article or article in press or conference paper or note or "review")	667
26	limit 25 to (english or french or german)	656
27	limit 26 to yr="2022 -Current"	228

Databas: Cochrane Library Issue 2 of 12, February 2025

Datum: 2025-02-28

Antal träffar: 8 ref

Cochrane reviews: 1

Cochrane protocols: 0

Trials: 7

Editorials: 0

Special collections: 0

Clinical answers: 0

ID	Search	Hits
#1	MeSH descriptor: [Frail Elderly] explode all trees	1164
#2	(frail* OR debilit*):ti,ab,kw (Word variations have been searched)	10426
#3	#1 OR #2	10426
#4	MeSH descriptor: [Digestive System Surgical Procedures] explode all trees	20254
#5	MeSH descriptor: [Laparotomy] explode all trees	998
#6	MeSH descriptor: [Laparoscopy] explode all trees	9160
#7	(laparotom* OR minilaparotom* OR laparoscop* OR celioscop* OR peritoneoscop*):ti,ab,kw (Word variations have been searched)	32810
#8	#4 OR #5 OR #6 OR #7	48727
#9	(acute OR emergen* OR urgent):ti,ab,kw (Word variations have been searched)	235946
#10	#8 AND #9	4934
#11	MeSH descriptor: [Abdomen, Acute] explode all trees	86
#12	((acute OR emergen* OR urgent) AND (abdomen* OR abdomin* OR gastr* OR peritone* OR retroperitone* OR digestive)):ti,ab,kw (Word variations have been searched)	20289
#13	#11 OR #12	20289
#14	MeSH descriptor: [Surgical Procedures, Operative] explode all trees	171730
#15	(surger* OR surgical OR operative OR perioperat* OR intraoperat* OR preoperat* OR postoperat*):ti,ab,kw (Word variations have been searched)	422085
#16	#14 OR #15	469613
#17	#13 AND #16	7679
#18	#10 OR #17	10384
#19	#3 AND #18	53
#20	MeSH descriptor: [Patient Care] explode all trees	94333
#21	MeSH descriptor: [Perioperative Medicine] explode all trees	1
#22	MeSH descriptor: [Patient Care Planning] explode all trees	2485
#23	MeSH descriptor: [Risk Factors] explode all trees	37632
#24	(care OR procedure* OR therap* OR treatment* OR protocol* OR pathway* OR (clinical NEXT path*) OR management* OR risk OR risks):ti,ab,kw (Word variations have been searched)	1644003
#25	#20 OR #21 OR #22 OR #23 OR #24	1650564
#26	#19 AND #25	49
#27	(clinicaltrials OR trialsearch):so	556210
#28	(conference proceeding):pt	255516
#29	#27 OR #28	811726
#30	#26 NOT #29	17
Limit search to publication year 2022-2025		8

Databas: Cinahl (Ebsco)

Datum: 2025-02-28

Antal träffar: 36 ref

#	Query	Limiters/Expanders	Results
S27	S19 AND S25	Limiters - Publication Date: 20220101-20251231; Language: English, French, German Expanders - Apply related words; Apply equivalent subjects Search modes - Find all my search terms	36
S26	S19 AND S25	Expanders - Apply related words; Apply equivalent subjects Search modes - Find all my search terms	123
S25	S20 OR S21 OR S22 OR S23 OR S24	Expanders - Apply related words; Apply equivalent subjects Search modes - Find all my search terms	3,706,058
S24	TI (care OR procedure* OR therap* OR treatment* OR protocol* OR pathway* OR "clinical path*" OR management* OR risk OR risks) OR AB (care OR procedure* OR therap* OR treatment* OR protocol* OR pathway* OR "clinical path*" OR management* OR risk OR risks)	Expanders - Apply related words; Apply equivalent subjects Search modes - Find all my search terms	3,255,587
S23	(MH "Risk Factors+")	Expanders - Apply related words; Apply equivalent subjects Search modes - Find all my search terms	228,338
S22	(MH "Patient Care Plans+")	Expanders - Apply related words; Apply equivalent subjects Search modes - Find all my search terms	12,638
S21	(MH "Perioperative Medicine")	Expanders - Apply related words; Apply equivalent subjects Search modes - Find all my search terms	51
S20	(MH "Patient Care+")	Expanders - Apply related words; Apply equivalent subjects Search modes - Find all my search terms	968,553
S19	S3 AND S18	Expanders - Apply related words; Apply equivalent subjects Search modes - Find all my search terms	141
S18	S10 OR S17	Expanders - Apply related words; Apply equivalent subjects Search modes - Find all my search terms	15,202
S17	S13 AND S16	Expanders - Apply related words; Apply equivalent subjects Search modes - Find all my search terms	9,948
S16	S14 OR S15	Expanders - Apply related words; Apply equivalent subjects Search modes - Find all my search terms	1,033,279
S15	TI (surger* OR surgical OR operative OR perioperat* OR intraoperat* OR preoperat* OR postoperat*) OR AB (surger* OR surgical OR operative OR perioperat* OR intraoperat* OR preoperat* OR postoperat*)	Expanders - Apply related words; Apply equivalent subjects Search modes - Find all my search terms	562,801
S14	(MH "Surgery, Operative+")	Expanders - Apply related words; Apply equivalent subjects Search modes - Find all my search terms	767,241
S13	S11 OR S12	Expanders - Apply related words; Apply equivalent subjects Search modes - Find all my search terms	25,792

S12	TI ((acute OR emergen* OR urgent) AND (abdomen* OR abdomin* OR gastr* OR peritone* OR retroperitone* OR digestive)) OR AB ((acute OR emergen* OR urgent) AND (abdomen* OR abdomin* OR gastr* OR peritone* OR retroperitone* OR digestive))	Expanders - Apply related words; Apply equivalent subjects Search modes - Find all my search terms	25,488
S11	(MH "Abdomen, Acute")	Expanders - Apply related words; Apply equivalent subjects Search modes - Find all my search terms	1,092
S10	S8 AND S9	Expanders - Apply related words; Apply equivalent subjects Search modes - Find all my search terms	8,608
S9	TI (acute OR emergen* OR urgent) OR AB (acute OR emergen* OR urgent)	Expanders - Apply related words; Apply equivalent subjects Search modes - Find all my search terms	500,754
S8	S4 OR S5 OR S6 OR S7	Expanders - Apply related words; Apply equivalent subjects Search modes - Find all my search terms	85,046
S7	TI (laparotom* OR minilaparotom* OR laparoscop* OR celioscop* OR peritoneoscop*) OR AB (laparotom* OR minilaparotom* OR laparoscop* OR celioscop* OR peritoneoscop*)	Expanders - Apply related words; Apply equivalent subjects Search modes - Find all my search terms	39,157
S6	(MH "Laparoscopy")	Expanders - Apply related words; Apply equivalent subjects Search modes - Find all my search terms	18,603
S5	(MH "Laparotomy")	Expanders - Apply related words; Apply equivalent subjects Search modes - Find all my search terms	4,424
S4	(MH "Surgery, Digestive System+")	Expanders - Apply related words; Apply equivalent subjects Search modes - Find all my search terms	49,941
S3	S1 OR S2	Expanders - Apply related words; Apply equivalent subjects Search modes - Find all my search terms	33,379
S2	TI (frail* OR debilit*) OR AB (frail* OR debilit*)	Expanders - Apply related words; Apply equivalent subjects Search modes - Find all my search terms	30,162
S1	(MH "Frail Elderly")	Expanders - Apply related words; Apply equivalent subjects Search modes - Find all my search terms	9,112

Sökhistorik delfråga C

Databas: Ovid MEDLINE(R) ALL (OvidSP)

Datum: 2025-02-28

Antal träffar: 179 ref

#	Searches	Results
1	exp Frail Elderly/	17004
2	(frail* or debilit*).ab,kf,ti.	82662
3	1 or 2	86881
4	exp Digestive System Surgical Procedures/	436890
5	exp Laparotomy/	20700
6	exp Laparoscopy/	124986
7	(laparotom* or minilaparotom* or laparoscop* or celioscop* or peritoneoscop*).ab,kf,ti.	213076
8	4 or 5 or 6 or 7	611096
9	(acute or emergen* or urgent).ab,kf,ti.	2172330
10	8 and 9	66290
11	exp Abdomen, Acute/	10001
12	((acute or emergen* or urgent) and (abdomen* or abdomin* or gastr* or peritone* or retroperitone* or digestive)).ab,kf,ti.	154970
13	11 or 12	157844
14	exp Surgical Procedures, Operative/	3702570
15	(surger* or surgical or operative or preoperat*).ab,kf,ti.	2673774
16	14 or 15	5039899
17	13 and 16	66220
18	10 or 17	106468
19	3 and 18	600
20	exp Risk Assessment/	328541
21	(risk* adj3 (assessment* or analys* or classification* or calculation* or stratification* or tool* or scale* or index or indices or algorithm* or status or score* or evaluation* or predict*).ab,kf,ti.	424744
22	(mortality adj1 (assessment* or analys* or classification* or calculation* or stratification* or tool* or scale* or index or indices or algorithm* or status or score* or evaluation* or predict*).ab,kf,ti.	25186
23	(adverse outcome* adj5 (assessment* or analys* or classification* or calculation* or stratification* or tool* or scale* or index or indices or algorithm* or status or score* or evaluation* or predict*).ab,kf,ti.	7333
24	((preoperative or pre-operative) adj3 (assessment* or analys* or classification* or calculation* or stratification* or tool* or scale* or index or indices or algorithm* or status or score* or evaluation*).ab,kf,ti.	64369
25	(physical status or (ASA adj5 classification*) or clinical frailty scale or CFS or Charlson Comorbidity Index or CCI or National Emergency Laparotomy Audit or NELA or POSPOM or P-POSSUM or POSSUM or surgical APGAR).ab,kf,ti.	41647
26	(risk* adj2 benefit*).ab,kf,ti.	51178
27	(no-lap or nolap or no-surg or nosurg or ("not undergo*" or "not underwent" or "not proceed*") adj5 (surg* or laparotom* or minilaparotom* or laparoscop* or celioscop* or peritoneoscop*)).ab,kf,ti.	4014
28	20 or 21 or 22 or 23 or 24 or 25 or 26 or 27	815845

29	19 and 28	184
30	(comment or editorial or letter).pt.	2314455
31	29 not 30	180
32	limit 31 to (english or french or german)	179

Databas: Embase 1974 to 2025 February 27

Datum: 2025-02-28

Antal träffar: 207 ref

#	Searches	Results
1	exp frail elderly/	13096
2	(frail* or debilit*).ab,kf,ti.	122732
3	1 or 2	126250
4	exp abdominal surgery/	1040840
5	(laparotom* or minilaparotom* or laparoscop* or celioscop* or peritoneoscop*).ab,kf,ti.	332221
6	4 or 5	1102630
7	(acute or emergen* or urgent).ab,kf,ti.	3008453
8	6 and 7	143073
9	exp acute abdomen/	15611
10	((acute or emergen* or urgent) and (abdomen* or abdomin* or gastr* or peritone* or retroperitone* or digestive)).ab,kf,ti.	252486
11	9 or 10	256131
12	exp surgery/	6388953
13	(surger* or surgical or operative or preoperat*).ab,kf,ti.	3549874
14	12 or 13	7214564
15	11 and 14	129001
16	8 or 15	210203
17	3 and 16	1579
18	exp risk assessment/	789729
19	(risk* adj3 (assessment* or analys* or classification* or calculation* or stratification* or tool* or scale* or index or indices or algorithm* or status or score* or evaluation* or predict*)).ab,kf,ti.	617957
20	(mortality adj1 (assessment* or analys* or classification* or calculation* or stratification* or tool* or scale* or index or indices or algorithm* or status or score* or evaluation* or predict*)).ab,kf,ti.	40219
21	(adverse outcome* adj5 (assessment* or analys* or classification* or calculation* or stratification* or tool* or scale* or index or indices or algorithm* or status or score* or evaluation* or predict*)).ab,kf,ti.	12384
22	((preoperative or pre-operative) adj3 (assessment* or analys* or classification* or stratification* or calculation* or tool* or scale* or index or indices or algorithm* or status or score* or evaluation*)).ab,kf,ti.	92175
23	(physical status or (ASA adj5 classification*) or clinical frailty scale or CFS or Charlson Comorbidity Index or CCI or National Emergency Laparotomy Audit or NELA or POSPOM or P-POSSUM or POSSUM or surgical APGAR).ab,kf,ti.	69166
24	(risk* adj2 benefit*).ab,kf,ti.	74828
25	(no-lap or nolap or no-surg or nosurg or (("not undergo*" or "not underwent" or "not proceed*") adj5 (surg* or laparotom* or minilaparotom* or laparoscop* or celioscop* or peritoneoscop*))).ab,kf,ti.	6607

26	18 or 19 or 20 or 21 or 22 or 23 or 24 or 25	1421114
27	17 and 26	485
28	limit 27 to (article or article in press or conference paper or note or "review")	207
29	limit 28 to (english or french or german)	207

Databas: Cochrane Library Issue 2 of 12, February 2025

Datum: 2025-02-28

Antal träffar: 2 ref

Cochrane reviews: 0

Cochrane protocols: 0

Trials: 2

Editorials: 0

Special collections: 0

Clinical answers: 0

ID	Search	Hits
#1	MeSH descriptor: [Frail Elderly] explode all trees	1164
#2	(frail* OR debilit*):ti,ab,kw (Word variations have been searched)	10426
#3	#1 OR #2	10426
#4	MeSH descriptor: [Digestive System Surgical Procedures] explode all trees	20254
#5	MeSH descriptor: [Laparotomy] explode all trees	998
#6	MeSH descriptor: [Laparoscopy] explode all trees	9160
#7	(laparotom* OR minilaparotom* OR laparoscop* OR celioscop* OR peritoneoscop*):ti,ab,kw (Word variations have been searched)	32810
#8	#4 OR #5 OR #6 OR #7	48727
#9	(acute OR emergen* OR urgent):ti,ab,kw (Word variations have been searched)	235946
#10	#8 AND #9	4934
#11	MeSH descriptor: [Abdomen, Acute] explode all trees	86
#12	((acute OR emergen* OR urgent) AND (abdomen* OR abdomin* OR gastr* OR peritone* OR retroperitone* OR digestive)):ti,ab,kw (Word variations have been searched)	20289
#13	#11 OR #12	20289
#14	MeSH descriptor: [Surgical Procedures, Operative] explode all trees	171730
#15	(surger* OR surgical OR operative OR preoperat*):ti,ab,kw (Word variations have been searched)	398160
#16	#14 OR #15	452045
#17	#13 AND #16	7515
#18	#10 OR #17	10233
#19	#3 AND #18	53
#20	MeSH descriptor: [Risk Assessment] explode all trees	13456
#21	((risk*) NEAR/2 (assessment* OR analys* OR classification* OR calculation* OR stratification* OR tool* OR scale* OR index OR indices OR algorithm* OR status OR score* OR evaluation* OR predict*)):ti,ab,kw (Word variations have been searched)	53886
#22	((mortality) NEAR/1 (assessment* OR analys* OR classification* OR calculation* OR stratification* OR tool* OR scale* OR index OR indices OR algorithm* OR status OR score* OR evaluation* OR predict*)):ti,ab,kw (Word variations have been searched)	3012
#23	((adverse NEXT outcome*) NEAR/4 (assessment* OR analys* OR classification* OR calculation* OR stratification* OR tool* OR scale* OR index OR indices OR algorithm* OR status OR score* OR evaluation* OR predict*)):ti,ab,kw (Word variations have been searched)	738

#24	((preoperative OR (pre NEXT operative)) NEAR/2 (assessment* OR analys* OR classification* OR calculation* OR stratification* OR tool* OR scale* OR index OR indices OR algorithm* OR status OR score* OR evaluation* OR predict*)):ti,ab,kw (Word variations have been searched)	10692
#25	("physical status" OR (ASA NEAR/4 classification*) OR "clinical frailty scale" OR CFS OR "Charlson Comorbidity Index" OR CCI OR "National Emergency Laparotomy Audit" OR NELA OR POSPOM OR "P-POSSUM" OR PPOSSUM OR "surgical APGAR"):ti,ab,kw (Word variations have been searched)	15966
#26	(risk* NEAR/1 benefit*):ti,ab,kw (Word variations have been searched)	5650
#27	("no-lap" OR nolap OR "no-surg" OR nosurg OR ("not undergo" OR "not undergoing" OR "not underwent" OR "not proceed" OR "not proceeding") NEAR/4 (surg* OR laparotom* OR minilaparotom* OR laparoscop* OR celioscop* OR peritoneoscop*)):ti,ab,kw (Word variations have been searched)	398
#28	#20 OR #21 OR #22 OR #23 OR #24 OR #25 OR #26 OR #27	85420
#29	#19 AND #28	12
#30	(clinicaltrials OR trialsearch):so	556210
#31	(conference proceeding):pt	255516
#32	#30 OR #31	811726
#33	#29 NOT #32	2

Databas: Cinahl (Ebsco)

Datum: 2025-02-28

Antal träffar: 72 ref

#	Query	Limiters/Expanders	Results
S30	S19 AND S28	Limiters - Language: English, French, German Expanders - Apply related words; Apply equivalent subjects Search modes - Find all my search terms	72
S29	S19 AND S28	Expanders - Apply related words; Apply equivalent subjects Search modes - Find all my search terms	72
S28	S20 OR S21 OR S22 OR S23 OR S24 OR S25 OR S26 OR S27	Expanders - Apply related words; Apply equivalent subjects Search modes - Find all my search terms	367,419
S27	TI ("no-lap" OR nolap OR "no-surg" OR nosurg OR ("not undergo*" OR "not underwent" OR "not proceed*") N4 (surg* OR laparotom* OR minilaparotom* OR laparoscop* OR celioscop* OR peritoneoscop*) OR AB ("no-lap" OR nolap OR "no-surg" OR nosurg OR ("not undergo*" OR "not underwent" OR "not proceed*") N4 (surg* OR laparotom* OR minilaparotom* OR laparoscop* OR celioscop* OR peritoneoscop*))	Expanders - Apply related words; Apply equivalent subjects Search modes - Find all my search terms	68,229
S26	TI (risk* N1 benefit*) OR AB (risk* N1 benefit*)	Expanders - Apply related words; Apply equivalent subjects Search modes - Find all my search terms	16,194
S25	TI ("physical status" OR (ASA N4 classification*) OR "clinical frailty scale" OR CFS OR "Charlson Comorbidity Index" OR CCI OR "National Emergency Laparotomy Audit" OR NELA OR POSPOM OR "P-POSSUM" OR PPOSSUM OR "surgical APGAR") OR AB ("physical status" OR (ASA N4 classification*) OR "clinical frailty scale" OR CFS OR "Charlson Comorbidity Index" OR CCI OR "National Emergency Laparotomy Audit" OR NELA OR POSPOM OR "P-POSSUM" OR PPOSSUM OR "surgical APGAR")	Expanders - Apply related words; Apply equivalent subjects Search modes - Find all my search terms	10,433

S24	TI ((preoperative OR "pre-operative") N2 (assessment* OR analys* OR classification* OR calculation* OR stratification* OR tool* OR scale* OR index OR indices OR algorithm* OR status OR score* OR evaluation* OR predict*)) OR AB ((preoperative OR "pre-operative") N2 (assessment* OR analys* OR classification* OR calculation* OR stratification* OR tool* OR scale* OR index OR indices OR algorithm* OR status OR score* OR evaluation* OR predict*)))	Expanders - Apply related words; Apply equivalent subjects Search modes - Find all my search terms	15,700
S23	TI ("adverse outcome*" N4 (assessment* OR analys* OR classification* OR calculation* OR stratification* OR tool* OR scale* OR index OR indices OR algorithm* OR status OR score* OR evaluation* OR predict*)) OR AB ("adverse outcome*" N4 (assessment* OR analys* OR classification* OR calculation* OR stratification* OR tool* OR scale* OR index OR indices OR algorithm* OR status OR score* OR evaluation* OR predict*)))	Expanders - Apply related words; Apply equivalent subjects Search modes - Find all my search terms	2,376
S22	TI (mortality N1 (assessment* OR analys* OR classification* OR calculation* OR stratification* OR tool* OR scale* OR index OR indices OR algorithm* OR status OR score* OR evaluation* OR predict*)) OR AB (mortality N1 (assessment* OR analys* OR classification* OR calculation* OR stratification* OR tool* OR scale* OR index OR indices OR algorithm* OR status OR score* OR evaluation* OR predict*)))	Expanders - Apply related words; Apply equivalent subjects Search modes - Find all my search terms	18,334
S21	TI (risk* N2 (assessment* OR analys* OR classification* OR calculation* OR stratification* OR tool* OR scale* OR index OR indices OR algorithm* OR status OR score* OR evaluation* OR predict*)) OR AB (risk* N2 (assessment* OR analys* OR classification* OR calculation* OR stratification* OR tool* OR scale* OR index OR indices OR algorithm* OR status OR score* OR evaluation* OR predict*)))	Expanders - Apply related words; Apply equivalent subjects Search modes - Find all my search terms	110,832
S20	(MH "Risk Assessment")	Expanders - Apply related words; Apply equivalent subjects Search modes - Find all my search terms	182,395
S19	S3 AND S18	Expanders - Apply related words; Apply equivalent subjects Search modes - Find all my search terms	140
S18	S10 OR S17	Expanders - Apply related words; Apply equivalent subjects Search modes - Find all my search terms	15,025
S17	S13 AND S16	Expanders - Apply related words; Apply equivalent subjects Search modes - Find all my search terms	9,665
S16	S14 OR S15	Expanders - Apply related words; Apply equivalent subjects Search modes - Find all my search terms	1,008,787
S15	TI (surger* OR surgical OR operative OR preoperat*) OR AB (surger* OR surgical OR operative OR preoperat*)	Expanders - Apply related words; Apply equivalent subjects Search modes - Find all my search terms	510,549
S14	(MH "Surgery, Operative+")	Expanders - Apply related words; Apply equivalent subjects Search modes - Find all my search terms	767,241
S13	S11 OR S12	Expanders - Apply related words; Apply equivalent subjects	25,792

		Search modes - Find all my search terms	
S12	TI ((acute OR emergen* OR urgent) AND (abdomen* OR abdomin* OR gastr* OR peritone* OR retroperitone* OR digestive)) OR AB ((acute OR emergen* OR urgent) AND (abdomen* OR abdomin* OR gastr* OR peritone* OR retroperitone* OR digestive))	Expanders - Apply related words; Apply equivalent subjects Search modes - Find all my search terms	25,488
S11	(MH "Abdomen, Acute")	Expanders - Apply related words; Apply equivalent subjects Search modes - Find all my search terms	1,092
S10	S8 AND S9	Expanders - Apply related words; Apply equivalent subjects Search modes - Find all my search terms	8,608
S9	TI (acute OR emergen* OR urgent) OR AB (acute OR emergen* OR urgent)	Expanders - Apply related words; Apply equivalent subjects Search modes - Find all my search terms	500,754
S8	S4 OR S5 OR S6 OR S7	Expanders - Apply related words; Apply equivalent subjects Search modes - Find all my search terms	85,046
S7	TI (laparotom* OR minilaparotom* OR laparoscop* OR celioscop* OR peritoneoscop*) OR AB (laparotom* OR minilaparotom* OR laparoscop* OR celioscop* OR peritoneoscop*)	Expanders - Apply related words; Apply equivalent subjects Search modes - Find all my search terms	39,157
S6	(MH "Laparoscopy")	Expanders - Apply related words; Apply equivalent subjects Search modes - Find all my search terms	18,603
S5	(MH "Laparotomy")	Expanders - Apply related words; Apply equivalent subjects Search modes - Find all my search terms	4,424
S4	(MH "Surgery, Digestive System+")	Expanders - Apply related words; Apply equivalent subjects Search modes - Find all my search terms	49,941
S3	S1 OR S2	Expanders - Apply related words; Apply equivalent subjects Search modes - Find all my search terms	33,379
S2	TI (frail* OR debilit*) OR AB (frail* OR debilit*)	Expanders - Apply related words; Apply equivalent subjects Search modes - Find all my search terms	30,162
S1	(MH "Frail Elderly")	Expanders - Apply related words; Apply equivalent subjects Search modes - Find all my search terms	9,112