

Main aspects

P

esophageal cancer	
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I

esophagectomy	
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C

Robotic, hybrid, minimally invasive surgical procedure	
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Limits:

Clinical Trials

Search guide overview

1	P1	
2	P2	
3	P3	
4	I	
5	C	
6	Clinical trials	
7	1 OR 2 OR 3	
8	4 AND 5 AND 6 AND 7	

Databases and platforms involved

- PubMed (via NCBI)
- EMBASE (via Elsevier)
- Cochrane Library (via Wiley)
- Cinahl (via Ebsco Host)
- ClinicalTrials.Gov (via www.clinicaltrials.gov)
- ICTRP (via <https://trialsearch.who.int/Default.aspx>)

PubMed

P1

1	"adenocarcinoma Of esophagus"[Supplementary Concept] OR "Esophageal neoplasms"[Mesh] OR "Barrett Esophagus"[Mesh] OR "esophagus neoplas*[tw] OR "esophagus tumor*[tw] OR "esophagus tumour*[tw] OR "esophagus cancer*[tw] OR "esophagus carcinoma*[tw] OR "esophagus malignancy"[tw] OR "esophagus adenocarcinoma*[tw] OR "esophagus adenoma*[tw] OR "neoplasm of the esophagus"[tw] OR "neoplasm of esophagus"[tw] OR "tumor of the esophagus"[tw] OR "tumor of esophagus"[tw] OR "tumour of the esophagus"[tw] OR "tumour of esophagus"[tw] OR "cancer of the esophagus"[tw] OR "cancer of esophagus"[tw] OR "carcinoma of the esophagus"[tw] OR "carcinoma of esophagus"[tw] OR "malignancy of the esophagus"[tw] OR "malignancy of esophagus"[tw] OR "adenocarcinoma of the esophagus"[tw] OR "adenocarcinoma of esophagus"[tw] OR "adenoma of the esophagus"[tw] OR "adenoma of esophagus"[tw] OR	
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"esophageal neoplas*[tw] OR "esophageal tumor*[tw] OR "esophageal tumour*[tw] OR "esophageal cancer*[tw] OR "esophageal carcinoma*[tw] OR "esophageal malignancy"[tw] OR "esophageal adenocarcinoma*[tw] OR "esophageal adenoma*[tw] OR "oesophagus neoplas*[tw] OR "oesophagus tumor*[tw] OR "oesophagus tumour*[tw] OR "oesophagus cancer*[tw] OR "oesophagus carcinoma*[tw] OR "oesophagus malignancy"[tw] OR "oesophagus adenocarcinoma*[tw] OR "oesophagus adenoma*[tw] OR "neoplasm of the oesophagus"[tw] OR "neoplasm of oesophagus"[tw] OR "tumor of the oesophagus"[tw] OR "tumor of oesophagus"[tw] OR "tumour of the oesophagus"[tw] OR "tumour of oesophagus"[tw] OR "cancer of the oesophagus"[tw] OR "cancer of oesophagus"[tw] OR "carcinoma of the oesophagus"[tw] OR "carcinoma of oesophagus"[tw] OR "malignancy of the oesophagus"[tw] OR "malignancy of oesophagus"[tw] OR "adenocarcinoma of the oesophagus"[tw] OR "adenocarcinoma of oesophagus"[tw] OR "adenoma of the oesophagus"[tw] OR "adenoma of oesophagus"[tw] OR "oesophageal neoplas*[tw] OR "oesophageal tumor*[tw] OR "oesophageal tumour*[tw] OR "oesophageal cancer*[tw] OR "oesophageal carcinoma*[tw] OR "oesophageal malignancy"[tw] OR "oesophageal adenocarcinoma*[tw] OR "oesophageal adenoma*[tw] OR "barrett neoplas*[tw] OR "barrett tumor*[tw] OR "barrett tumour*[tw] OR "barrett cancer*[tw] OR "barrett carcinoma*[tw] OR "barrett malignancy"[tw] OR "barrett adenocarcinoma*[tw] OR "barrett adenoma*[tw] OR "barrett's neoplas*[tw] OR "barrett's tumor*[tw] OR "barrett's tumour*[tw] OR "barrett's cancer*[tw] OR "barrett's carcinoma*[tw] OR "barrett's malignancy"[tw] OR "barrett's adenocarcinoma*[tw] OR "barrett's adenoma*[tw] OR "barrett s neoplas*[tw] OR "barrett s tumor*[tw] OR "barrett s tumour*[tw] OR	
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	"barrett s cancer"[tw] OR "barrett s carcinoma"[tw] OR "barrett s malignancy"[tw] OR "barrett s adenocarcinoma"[tw] OR "barrett s adenoma"[tw] OR "cardia neoplas"[tw] OR "cardia tumor"[tw] OR "cardia tumour"[tw] OR "cardia cancer"[tw] OR "cardia carcinoma"[tw] OR "cardia malignancy"[tw] OR "cardia adenocarcinoma"[tw] OR "cardia adenoma"[tw]	
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P2

2	"esophageal Squamous Cell carcinoma"[Mesh] OR "esophagus Squamous Cell carcinoma"[tw] OR "oesophagus Squamous Cell carcinoma"[tw] OR "esophageal Squamous Cell carcinoma"[tw] OR "oesophageal Squamous Cell carcinoma"[tw]	
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P3

3	("Esophagogastric Junction"[Mesh] OR "gastroesophageal Junction"[tw] OR "gastrooesophageal Junction"[tw] OR "esophagogastric Junction"[tw] OR "oesophagogastric Junction"[tw]) AND ("adenocarcinoma"[Mesh] OR neoplas*[tw] OR tumor*[tw] OR tumour*[tw] OR cancer*[tw] OR carcinoma*[tw] OR malignancy[tw] OR adenocarcinoma*[tw] OR adenoma*[tw])	
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I

4	"General Surgery"[Mesh] OR "Surgical Oncology"[Mesh] OR "Digestive System Surgical Procedures"[Mesh] OR Esophagectom*[tw] OR Oesophagectom*[tw] OR "esophago gastrectom"[tw] OR "oesophago gastrectom"[tw] OR surg*[tw] OR operat*[tw] OR preoperative*[tw]	
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C

5	"Minimally Invasive Surgical Procedures"[Mesh] OR Minimal*[tw] OR	
	"Robotic Surgical Procedures"[Mesh] OR Robot*[tw] OR "Video assisted"[tw] OR	
	"Thoracoscopy"[Mesh] OR "Laparoscopy"[Mesh] OR hybrid*[tw] OR Laparoscop*[tw] OR "Laparo scop"[tw] OR	

	Thoracoscop*[tw]	
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Clinical Trials

Box 3.b Cochrane Highly Sensitive Search Strategy for identifying randomized trials in MEDLINE: sensitivity- and precision-maximizing version; PubMed format, S. 60-61 (Addition for systematic reviews and metaanalysis)
<https://training.cochrane.org/technical-supplement-chapter-4-searching-and-selecting-studies-v63>

6	clinical trials as topic [mesh:noexp] OR randomized controlled trial[pt] OR controlled clinical trial[pt] OR randomized[tiab] OR placebo[tiab] OR randomly[tiab] OR trial[ti] OR "Systematic Review" [ptyp] OR "systematic review"[tiab] OR "Meta Analysis"[ptyp] OR Metaanalys*[tiab] OR "Meta analys"[tiab]	
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Strings

1	"adenocarcinoma Of esophagus"[Supplementary Concept] OR "Esophageal neoplasms"[MeSH Terms] OR "Barrett Esophagus"[MeSH Terms] OR "esophagus neoplas*" [Text Word] OR "esophagus tumor*" [Text Word] OR "esophagus tumour*" [Text Word] OR "esophagus cancer*" [Text Word] OR "esophagus carcinoma*" [Text Word] OR "esophagus adenocarcinoma*" [Text Word] OR "neoplasm of the esophagus" [Text Word] OR "neoplasm of esophagus" [Text Word] OR "tumor of the esophagus" [Text Word] OR "tumor of esophagus" [Text Word] OR "tumour of the esophagus" [Text Word] OR "cancer of the esophagus" [Text Word] OR "cancer of esophagus" [Text Word] OR "carcinoma of the esophagus" [Text Word] OR "carcinoma of esophagus" [Text Word] OR "adenocarcinoma of the esophagus" [Text Word] OR "adenocarcinoma Of esophagus" [Text Word] OR "esophageal neoplas*" [Text Word] OR "esophageal tumor*" [Text Word] OR "esophageal tumour*" [Text Word] OR "esophageal cancer*" [Text Word] OR "esophageal carcinoma*" [Text Word] OR "esophageal malignancy" [Text Word] OR "esophageal adenocarcinoma*" [Text Word] OR "esophageal adenoma*" [Text Word] OR "oesophagus neoplas*" [Text Word] OR "oesophagus tumor*" [Text Word] OR "oesophagus tumour*" [Text Word] OR "oesophagus cancer*" [Text Word] OR "oesophagus carcinoma*" [Text Word] OR "oesophagus adenocarcinoma*" [Text Word] OR "neoplasm of the oesophagus" [Text Word] OR "tumor of the oesophagus" [Text Word] OR "tumour of the oesophagus" [Text Word] OR "cancer of the oesophagus" [Text Word] OR "cancer of oesophagus" [Text Word] OR "carcinoma of the oesophagus" [Text Word] OR "carcinoma of oesophagus" [Text Word] OR "adenocarcinoma of oesophagus" [Text Word] OR "oesophageal neoplas*" [Text Word] OR "oesophageal tumor*" [Text Word] OR "oesophageal tumour*" [Text Word] OR "oesophageal cancer*" [Text Word] OR "oesophageal carcinoma*" [Text Word] OR "oesophageal malignancy" [Text Word] OR "oesophageal adenocarcinoma*" [Text Word] OR "barrett neoplas*" [Text Word] OR "barrett cancer*" [Text Word] OR "barrett carcinoma*" [Text Word] OR "barrett adenocarcinoma*" [Text Word] OR "barrett s neoplas*" [Text Word] OR "barrett s tumor*" [Text Word] OR "barrett s tumour*" [Text Word] OR "barrett s cancer*" [Text Word] OR "barrett s carcinoma*" [Text Word] OR "barrett s adenocarcinoma*" [Text Word] OR "barrett s neoplas*" [Text Word] OR "barrett s tumor*" [Text Word] OR "barrett s tumour*" [Text Word] OR "barrett s cancer*" [Text Word] OR "barrett s carcinoma*" [Text Word] OR "barrett s adenocarcinoma*" [Text Word] OR "cardia tumor*" [Text Word] OR "cardia tumour*" [Text Word] OR "cardia cancer*" [Text Word] OR "cardia carcinoma*" [Text Word] OR "cardia adenocarcinoma*" [Text Word]
2	"esophageal Squamous Cell carcinoma"[MeSH Terms] OR "esophagus squamous cell carcinoma*" [Text Word] OR "oesophagus squamous cell carcinoma*" [Text Word] OR "esophageal squamous cell carcinoma*" [Text Word] OR "oesophageal squamous cell carcinoma*" [Text Word]
3	("Esophagogastric Junction"[MeSH Terms] OR "gastroesophageal junction*" [Text Word] OR "gastrooesophageal junction*" [Text Word] OR "esophagogastric

	junction**[Text Word] OR "oesophagogastric junction**[Text Word]) AND ("adenocarcinoma"[MeSH Terms] OR "neoplas**"[Text Word] OR "tumor**"[Text Word] OR "tumour**"[Text Word] OR "cancer**"[Text Word] OR "carcinoma**"[Text Word] OR "malignancy"[Text Word] OR "adenocarcinoma**"[Text Word] OR "adenoma**"[Text Word])
4	"General Surgery"[MeSH Terms] OR "Surgical Oncology"[MeSH Terms] OR "Digestive System Surgical Procedures"[MeSH Terms] OR "esophagectom**"[Text Word] OR "oesophagectom**"[Text Word] OR "esophago gastrectom**"[Text Word] OR "oesophago gastrectom**"[Text Word] OR "surg**"[Text Word] OR "operat**"[Text Word] OR "preoperative**"[Text Word]
5	"Minimally Invasive Surgical Procedures"[MeSH Terms] OR "minimal**"[Text Word] OR "Robotic Surgical Procedures"[MeSH Terms] OR "robot**"[Text Word] OR "Video assisted"[Text Word] OR "Thoracoscopy"[MeSH Terms] OR "Laparoscopy"[MeSH Terms] OR "hybrid**"[Text Word] OR "laparoscop**"[Text Word] OR "Laparo scop**"[Text Word] OR "thoracoscop**"[Text Word]
6	"clinical trials as topic"[MeSH Terms:noexp] OR "randomized controlled trial"[Publication Type] OR "controlled clinical trial"[Publication Type] OR "randomized"[Title/Abstract] OR "placebo"[Title/Abstract] OR "randomly"[Title/Abstract] OR "trial"[Title] OR "Systematic Review"[Publication Type] OR "systematic review**"[Title/Abstract] OR "Meta Analysis"[Publication Type] OR "metaanalys**"[Title/Abstract] OR "meta analys**"[Title/Abstract]
7	#1 OR #2 OR #3
8	#4 AND #5 AND #6 AND #7

Embase

P1

1	'esophageal adenocarcinoma'/exp OR 'esophagus tumor'/exp OR 'Barrett esophagus'/exp OR (esophag* NEAR/3 neoplas* OR esophag* NEAR/3 tumor* OR esophag* NEAR/3 tumour* OR esophag* NEAR/3 cancer* OR esophag* NEAR/3 carcinoma* OR esophag* NEAR/3 malignancy OR esophag* NEAR/3 adenocarcinoma* OR esophag* NEAR/3 adenoma* OR oesophag* NEAR/3 neoplas* OR oesophag* NEAR/3 tumor* OR oesophag* NEAR/3 tumour* OR oesophag* NEAR/3 cancer* OR oesophag* NEAR/3 carcinoma* OR oesophag* NEAR/3 malignancy OR oesophag* NEAR/3 adenocarcinoma* OR oesophag* NEAR/3 adenoma* OR Barrett* NEAR/3 neoplas* OR Barrett* NEAR/3 tumor* OR Barrett* NEAR/3 tumour* OR Barrett* NEAR/3 cancer* OR Barrett* NEAR/3 carcinoma* OR Barrett* NEAR/3 malignancy OR Barrett* NEAR/3 adenocarcinoma* OR Barrett* NEAR/3 adenoma* OR cardia NEAR/3 neoplas* OR cardia NEAR/3 tumor* OR cardia NEAR/3 tumour* OR cardia NEAR/3 cancer* OR cardia NEAR/3 carcinoma* OR cardia NEAR/3 malignancy OR cardia NEAR/3 adenocarcinoma* OR cardia NEAR/3 adenoma*):ti,ab,kw	
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P2

2	'esophageal squamous cell carcinoma'/exp OR (esophag* NEAR/2 Squamous NEAR/2 Cell NEAR/2 carcinoma* OR oesophag* NEAR/2 Squamous NEAR/2 Cell NEAR/2 carcinoma*):ti,ab,kw	
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P3

3	('gastroesophageal junction'/exp OR "gastroesophageal Junction":ti,ab,kw OR "gastrooesophageal Junction":ti,ab,kw OR "esophagogastric Junction":ti,ab,kw OR "oesophagogastric Junction":ti,ab,kw) AND ('adenocarcinoma'/exp OR neoplas*:ti,ab,kw OR tumor*:ti,ab,kw OR tumour*:ti,ab,kw OR cancer*:ti,ab,kw OR carcinoma*:ti,ab,kw OR malignancy:ti,ab,kw OR adenocarcinoma*:ti,ab,kw OR adenoma*:ti,ab,kw)	
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I

4	'general surgery'/exp OR 'surgical oncology'/exp OR 'abdominal surgery'/exp OR (Esophagectom* OR Oesophagectom* OR "esophago gastrectom*" OR "oesophago gastrectom*" OR surg* OR operat* OR preoperative*):ti,ab,kw	
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C

5	'minimally invasive surgery'/exp OR Minimal*:ti,ab,kw OR	
	'robot assisted surgery'/exp OR Robot*:ti,ab,kw OR "Video assisted":ti,ab,kw OR	
	'thoracoscopy'/exp OR 'laparoscopy'/exp OR (hybrid* OR Laparoscop* OR "Laparo scop*" OR Thoracoscop*):ti,ab,kw	

Clinical Trials
Box 3.e Cochrane Highly Sensitive Search Strategy for identifying controlled trials in Embase: (2020 revision);
Embase.com format. S. 63-64 (Addition for systematic reviews and metaanalysis)
<https://training.cochrane.org/handbook/current/chapter-04-technical-supplement-searching-and-selecting-studies>

6	('randomized controlled trial'/de OR 'controlled clinical trial'/de OR random*:ti,ab,tt OR 'randomization'/de OR 'intermethod comparison'/de OR placebo:ti,ab,tt OR (compare:ti,tt OR compared:ti,tt OR comparison:ti,tt) OR ((evaluated:ab OR evaluate:ab OR evaluating:ab OR assessed:ab OR assess:ab) AND (compare:ab OR compared:ab OR comparing:ab OR comparison:ab)) OR (open NEXT/1 label):ti,ab,tt OR ((double OR single OR doubly OR singly) NEXT/1 (blind OR blinded OR blindly)):ti,ab,tt OR 'double blind procedure'/de OR (parallel NEXT/1 group*):ti,ab,tt OR (crossover:ti,ab,tt OR 'cross over':ti,ab,tt) OR ((assign* OR match OR matched OR allocation) NEAR/6 (alternate OR group OR groups OR intervention OR interventions OR patient OR patients OR subject OR subjects OR participant OR participants)):ti,ab,tt OR (assigned:ti,ab,tt OR allocated:ti,ab,tt) OR (controlled NEAR/8 (study OR design OR trial)):ti,ab,tt OR (volunteer:ti,ab,tt OR volunteers:ti,ab,tt) OR 'human experiment'/de OR trial:ti,tt) OR 'systematic review':it OR "systematic review*":ti,ab,kw OR 'meta analysis':it OR Metaanalys*:ti,ab,kw OR "Meta analys*":ti,ab,kw)	
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Strings

1-6 as in the tables above

1	'esophageal adenocarcinoma'/exp OR 'esophagus tumor'/exp OR 'barrett esophagus'/exp OR ((esophag* NEAR/3 neoplas*):ti,ab,kw) OR ((esophag* NEAR/3 tumor*):ti,ab,kw) OR ((esophag* NEAR/3 tumour*):ti,ab,kw) OR ((esophag* NEAR/3 cancer*):ti,ab,kw) OR ((esophag* NEAR/3 carcinoma*):ti,ab,kw) OR ((esophag* NEAR/3 malignancy):ti,ab,kw) OR ((esophag* NEAR/3 adenocarcinoma*):ti,ab,kw) OR ((esophag* NEAR/3 adenoma*):ti,ab,kw) OR ((oesophag* NEAR/3 neoplas*):ti,ab,kw) OR ((oesophag* NEAR/3 tumor*):ti,ab,kw) OR ((oesophag* NEAR/3 tumour*):ti,ab,kw) OR ((oesophag* NEAR/3 cancer*):ti,ab,kw) OR ((oesophag* NEAR/3 carcinoma*):ti,ab,kw) OR ((oesophag* NEAR/3 malignancy):ti,ab,kw) OR ((oesophag* NEAR/3 adenocarcinoma*):ti,ab,kw) OR ((oesophag* NEAR/3 adenoma*):ti,ab,kw) OR ((barrett* NEAR/3 neoplas*):ti,ab,kw) OR ((barrett* NEAR/3 tumor*):ti,ab,kw) OR ((barrett* NEAR/3 tumour*):ti,ab,kw) OR ((barrett* NEAR/3 cancer*):ti,ab,kw) OR ((barrett* NEAR/3 carcinoma*):ti,ab,kw) OR ((barrett* NEAR/3 malignancy):ti,ab,kw) OR ((barrett* NEAR/3 adenocarcinoma*):ti,ab,kw) OR ((barrett* NEAR/3 adenoma*):ti,ab,kw) OR ((cardia NEAR/3 neoplas*):ti,ab,kw) OR ((cardia NEAR/3 tumor*):ti,ab,kw) OR ((cardia NEAR/3 tumour*):ti,ab,kw) OR ((cardia NEAR/3 cancer*):ti,ab,kw) OR ((cardia NEAR/3 carcinoma*):ti,ab,kw) OR ((cardia NEAR/3 malignancy):ti,ab,kw) OR ((cardia NEAR/3 adenocarcinoma*):ti,ab,kw) OR ((cardia NEAR/3 adenoma*):ti,ab,kw)
2	'esophageal squamous cell carcinoma'/exp OR ((esophag* NEAR/2 squamous NEAR/2 cell NEAR/2 carcinoma*):ti,ab,kw) OR ((oesophag* NEAR/2 squamous NEAR/2 cell NEAR/2 carcinoma*):ti,ab,kw)
3	('gastroesophageal junction'/exp OR 'gastroesophageal junction*':ti,ab,kw OR 'gastroesophageal junction*':ti,ab,kw OR 'esophagogastric junction*':ti,ab,kw OR 'oesophagogastric junction*':ti,ab,kw) AND ('adenocarcinoma'/exp OR neoplas*':ti,ab,kw OR tumor*':ti,ab,kw OR tumour*':ti,ab,kw OR cancer*':ti,ab,kw OR carcinoma*':ti,ab,kw OR malignancy:ti,ab,kw OR adenocarcinoma*':ti,ab,kw OR adenoma*':ti,ab,kw)
4	'general surgery'/exp OR 'surgical oncology'/exp OR 'abdominal surgery'/exp OR esophagectom*':ti,ab,kw OR oesophagectom*':ti,ab,kw OR 'esophago gastrectom*':ti,ab,kw OR 'oesophago gastrectom*':ti,ab,kw OR surg*':ti,ab,kw OR operat*':ti,ab,kw OR preoperative*':ti,ab,kw
5	'minimally invasive surgery'/exp OR minimal*':ti,ab,kw OR 'robot assisted surgery'/exp OR robot*':ti,ab,kw OR 'video assisted':ti,ab,kw OR 'thoracoscopy'/exp OR 'laparoscopy'/exp OR hybrid*':ti,ab,kw OR laparoscop*':ti,ab,kw OR 'laparoscop*':ti,ab,kw OR thoracoscop*':ti,ab,kw
6	'randomized controlled trial'/de OR 'controlled clinical trial'/de OR random*':ti,ab,tt OR 'randomization'/de OR 'intermethod comparison'/de OR placebo:ti,ab,tt OR compare:ti,tt OR compared:ti,tt OR comparison:ti,tt OR ((evaluated:ab OR evaluate:ab OR evaluating:ab OR assessed:ab OR assess:ab) AND (compare:ab OR compared:ab OR comparing:ab OR comparison:ab)) OR ((open NEXT/1 label):ti,ab,tt) OR (((double OR single OR doubly OR singly) NEXT/1 (blind OR blinded OR blindly)):ti,ab,tt) OR 'double blind procedure'/de OR ((parallel NEXT/1 group*):ti,ab,tt) OR crossover:ti,ab,tt OR 'cross over':ti,ab,tt OR (((assign* OR match OR matched OR allocation) NEAR/6 (alternate OR group OR groups OR intervention OR interventions OR patient OR patients OR subject OR subjects OR participant OR participants)):ti,ab,tt) OR assigned:ti,ab,tt OR allocated:ti,ab,tt OR ((controlled NEAR/8 (study OR design OR trial)):ti,ab,tt) OR volunteer:ti,ab,tt OR volunteers:ti,ab,tt OR 'human experiment'/de OR trial:ti,tt OR 'systematic review':it OR 'systematic review*':ti,ab,kw OR 'meta analysis':it OR metaanalys*':ti,ab,kw OR 'meta analys*':ti,ab,kw
7	#1 OR #2 OR #3
8	#4 AND #5 AND #6 AND #7

Embase filter to switch off PubMed

9	#8 NOT ([medline]/lim OR [pubmed-not-medline]/lim)
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Embase filter to exclude document types not of interest

10	#9 NOT ('Conference Abstract'/it OR 'Note'/it)
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Cochrane Library

P1

1	[mh "Esophageal neoplasms"] OR [mh "Barrett Esophagus"] OR esophag* NEAR/2 neoplas*:ti,ab,kw OR esophag* NEAR/2 tumor*:ti,ab,kw OR esophag* NEAR/2 tumour*:ti,ab,kw OR esophag* NEAR/2 cancer*:ti,ab,kw OR esophag* NEAR/2 carcinoma*:ti,ab,kw OR esophag* NEAR/2 malignancy:ti,ab,kw OR esophag* NEAR/2 adenocarcinoma*:ti,ab,kw OR esophag* NEAR/2 adenoma*:ti,ab,kw OR oesophag* NEAR/2 neoplas*:ti,ab,kw OR oesophag* NEAR/2 tumor*:ti,ab,kw OR oesophag* NEAR/2 tumour*:ti,ab,kw OR oesophag* NEAR/2 cancer*:ti,ab,kw OR oesophag* NEAR/2 carcinoma*:ti,ab,kw OR oesophag* NEAR/2 malignancy:ti,ab,kw OR oesophag* NEAR/2 adenocarcinoma*:ti,ab,kw OR oesophag* NEAR/2 adenoma*:ti,ab,kw OR Barrett* NEAR/2 neoplas*:ti,ab,kw OR Barrett* NEAR/2 tumor*:ti,ab,kw OR Barrett* NEAR/2 tumour*:ti,ab,kw OR Barrett* NEAR/2 cancer*:ti,ab,kw OR Barrett* NEAR/2 carcinoma*:ti,ab,kw OR Barrett* NEAR/2 malignancy:ti,ab,kw OR Barrett* NEAR/2 adenocarcinoma*:ti,ab,kw OR Barrett* NEAR/2 adenoma*:ti,ab,kw OR cardia NEAR/2 neoplas*:ti,ab,kw OR cardia NEAR/2 tumor*:ti,ab,kw OR cardia NEAR/2 tumour*:ti,ab,kw OR cardia NEAR/2 cancer*:ti,ab,kw OR cardia NEAR/2 carcinoma*:ti,ab,kw OR cardia NEAR/2 malignancy:ti,ab,kw OR cardia NEAR/2 adenocarcinoma*:ti,ab,kw OR cardia NEAR/2 adenoma*:ti,ab,kw	
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P2

2	[mh "esophageal Squamous Cell carcinoma"] OR esophag* NEAR/2 Squamous NEAR/2 Cell NEAR/2 carcinoma*:ti,ab,kw OR oesophag* NEAR/2 Squamous NEAR/2 Cell NEAR/2 carcinoma*:ti,ab,kw	
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P3

3	([mh "Esophagogastric Junction"] OR gastroesophag* NEAR/2 Junction*:ti,ab,kw OR gastroesophag* NEAR/2 Junction*:ti,ab,kw OR esophagogastric NEAR/2 Junction*:ti,ab,kw OR oesophagogastric NEAR/2 Junction*:ti,ab,kw) AND ([mh "adenocarcinoma"] OR neoplas*:ti,ab,kw OR tumor*:ti,ab,kw OR tumour*:ti,ab,kw OR cancer*:ti,ab,kw OR carcinoma*:ti,ab,kw OR malignancy:ti,ab,kw OR adenocarcinoma*:ti,ab,kw OR adenoma*:ti,ab,kw)	
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I

4	[mh "General Surgery"] OR [mh "Surgical Oncology"] OR [mh "Digestive System Surgical Procedures"] OR	
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	Esophagectom*.ti,ab,kw OR Oesophagectom*.ti,ab,kw OR esophag* NEAR/2 gastrectom*.ti,ab,kw OR oesophag* NEAR/2 gastrectom*.ti,ab,kw OR surg*.ti,ab,kw OR operat*.ti,ab,kw OR preoperative*.ti,ab,kw	
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C

5	[mh "Minimally Invasive Surgical Procedures"] OR Minimal*.ti,ab,kw OR [mh "Robotic Surgical Procedures"] OR Robot*.ti,ab,kw OR "Video assisted".ti,ab,kw OR [mh "Thoracoscopy"] OR [mh "Laparoscopy"] OR hybrid*.ti,ab,kw OR Laparoscop*.ti,ab,kw OR Laparo NEAR/2 scop*.ti,ab,kw OR Thoracoscop*.ti,ab,kw	
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Strings

1	[mh "Esophageal neoplasms"] OR [mh "Barrett Esophagus"] OR esophag* NEAR/2 neoplas*.ti,ab,kw OR esophag* NEAR/2 tumor*.ti,ab,kw OR esophag* NEAR/2 tumour*.ti,ab,kw OR esophag* NEAR/2 cancer*.ti,ab,kw OR esophag* NEAR/2 carcinoma*.ti,ab,kw OR esophag* NEAR/2 malignancy.ti,ab,kw OR esophag* NEAR/2 adenocarcinoma*.ti,ab,kw OR esophag* NEAR/2 adenoma*.ti,ab,kw ORoesophag* NEAR/2 neoplas*.ti,ab,kw OR oesophag* NEAR/2 tumor*.ti,ab,kw OR oesophag* NEAR/2 tumour*.ti,ab,kw OR oesophag* NEAR/2 cancer*.ti,ab,kw OR oesophag* NEAR/2 carcinoma*.ti,ab,kw OR oesophag* NEAR/2 malignancy.ti,ab,kw OR oesophag* NEAR/2 adenocarcinoma*.ti,ab,kw OR oesophag* NEAR/2 adenoma*.ti,ab,kw ORBarrett* NEAR/2 neoplas*.ti,ab,kw OR Barrett* NEAR/2 tumor*.ti,ab,kw OR Barrett* NEAR/2 tumour*.ti,ab,kw OR Barrett* NEAR/2 cancer*.ti,ab,kw OR Barrett* NEAR/2 carcinoma*.ti,ab,kw OR Barrett* NEAR/2 malignancy.ti,ab,kw OR Barrett* NEAR/2 adenocarcinoma*.ti,ab,kw OR Barrett* NEAR/2 adenoma*.ti,ab,kw ORcardia NEAR/2 neoplas*.ti,ab,kw OR cardia NEAR/2 tumor*.ti,ab,kw OR cardia NEAR/2 tumour*.ti,ab,kw OR cardia NEAR/2 cancer*.ti,ab,kw OR cardia NEAR/2 carcinoma*.ti,ab,kw OR cardia NEAR/2 malignancy.ti,ab,kw OR cardia NEAR/2 adenocarcinoma*.ti,ab,kw OR cardia NEAR/2 adenoma*.ti,ab,kw
2	[mh "esophageal Squamous Cell carcinoma"] OR esophag* NEAR/2 Squamous NEAR/2 Cell NEAR/2 carcinoma*.ti,ab,kw OR oesophag* NEAR/2 Squamous NEAR/2 Cell NEAR/2 carcinoma*.ti,ab,kw
3	([mh "Esophagogastric Junction"] OR gastroesophag* NEAR/2 Junction*.ti,ab,kw OR gastroesophag* NEAR/2 Junction*.ti,ab,kw OR esophagogastric NEAR/2 Junction*.ti,ab,kw OR oesophagogastric NEAR/2 Junction*.ti,ab,kw) AND ([mh "adenocarcinoma"] OR neoplas*.ti,ab,kw OR tumor*.ti,ab,kw OR tumour*.ti,ab,kw OR cancer*.ti,ab,kw OR carcinoma*.ti,ab,kw OR malignancy.ti,ab,kw OR adenocarcinoma*.ti,ab,kw OR adenoma*.ti,ab,kw)
4	[mh "General Surgery"] OR [mh "Surgical Oncology"] OR [mh "Digestive System Surgical Procedures"] OR Esophagectom*.ti,ab,kw OR Oesophagectom*.ti,ab,kw OR esophag* NEAR/2 gastrectom*.ti,ab,kw OR oesophag* NEAR/2 gastrectom*.ti,ab,kw OR surg*.ti,ab,kw OR operat*.ti,ab,kw OR preoperative*.ti,ab,kw
5	[mh "Minimally Invasive Surgical Procedures"] OR Minimal*.ti,ab,kw OR [mh "Robotic Surgical Procedures"] OR Robot*.ti,ab,kw OR "Video assisted".ti,ab,kw OR [mh "Thoracoscopy"] OR [mh "Laparoscopy"] OR hybrid*.ti,ab,kw OR Laparoscop*.ti,ab,kw OR Laparo NEAR/2 scop*.ti,ab,kw OR Thoracoscop*.ti,ab,kw
6	#1 OR #2 OR #3
7	#4 AND #5 AND #6

CINAHL

P1

1	(MH "Esophageal Neoplasms+") OR (MH "Barrett Esophagus") OR TX (esophag* N5 neoplas* OR esophag* N5 tumor* OR esophag* N5 tumour* OR esophag* N5 cancer* OR esophag* N5 carcinoma* OR esophag* N5 malignancy OR esophag* N5 adenocarcinoma* OR esophag* N5 adenoma* OR neoplas* N5 esophagus OR tumor* N5 esophagus OR tumour* N5 esophagus OR cancer* N5 esophagus OR carcinoma* N5 esophagus OR malignancy N5 esophagus OR adenocarcinoma* N5 esophagus OR adenoma* N5 esophagus OR oesophag* N5 neoplas* OR oesophag* N5 tumor* OR oesophag* N5 tumour* OR oesophag* N5 cancer* OR oesophag* N5 carcinoma* OR oesophag* N5 malignancy OR oesophag* N5 adenocarcinoma* OR oesophag* N5 adenoma* OR neoplas* N5 oesophagus OR tumor* N5 oesophagus OR tumour* N5 oesophagus OR cancer* N5 oesophagus OR carcinoma* N5 oesophagus OR malignancy* N5 oesophagus OR adenocarcinoma* N5 oesophagus OR adenoma* N5 oesophagus OR barrett* N5 neoplas* OR barrett* N5 tumor* OR barrett* N5 tumour* OR barrett* N5 cancer* OR barrett* N5 carcinoma* OR barrett* N5 malignancy OR barrett* N5 adenocarcinoma* OR barrett* N5 adenoma* OR cardia N5 neoplas* OR cardia N5 tumor* OR cardia N5 tumour* OR cardia N5 cancer* OR cardia N5 carcinoma* OR cardia N5 malignancy OR cardia N5 adenocarcinoma* OR cardia N5 adenoma*)	
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P2

2	(TX (esophag* N5 Squamous N5 Cell N5 carcinoma* OR oesophag* N5 Squamous N5 Cell N5 carcinoma*))	
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P3

3	(TX (gastroesophageal N5 Junction* OR gastroesophageal N5 Junction* OR esophagogastric N5 Junction* OR oesophagogastric N5 Junction*)) AND	
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	(MH "Adenocarcinoma" OR TX (neoplas* OR tumor* OR tumour* OR cancer* OR carcinoma* OR malignancy OR adenocarcinoma* OR adenoma*))	
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I

4	(MH "Surgery, Operative+" OR TX (surg*" OR operat* OR preoperative* Esophagectom* OR Oesophagectom* OR esophag* N5 gastrectom* OR oesophag* N5 gastrectom*)	
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C

5	MH "Minimally Invasive Procedures+" OR TX Minimal* OR MH "Robotic Surgical Procedures" OR TX (Robot* OR "Video assisted") OR MH "Thoracoscopy" OR MH "Laparoscopy" OR TX (hybrid* OR Laparoscop* OR Laparo N5 scop* OR Thoracoscop*)	
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Clinical Trials

Nach Cochrane-Handbuch: <https://training.cochrane.org/handbook/current/chapter-04-technical-supplement-searching-and-selecting-studies#section-3-6-3>

6	MH randomized controlled trials OR MH double-blind studies OR MH single-blind studies OR MH random assignment OR MH pretest-posttest design OR MH cluster sample OR TI (randomised OR randomized) OR AB (random*) OR TI (trial) OR (MH (sample size) AND AB (assigned OR allocated OR control)) OR MH (placebos) OR PT (randomized controlled trial) OR AB (control W5 group) OR MH (crossover design) OR MH (comparative studies) OR AB (cluster W3 RCT) OR MH "Meta Analysis" OR MH "Systematic Review" OR (TX ("systematic review*" OR Metaanalys* OR "Meta analys*"))	
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Strings

1	(MH "Esophageal Neoplasms+" OR (MH "Barrett Esophagus") OR TX (esophag* N5 neoplas* OR esophag* N5 tumor* OR esophag* N5 tumour* OR esophag* N5 cancer* OR esophag* N5 carcinoma* OR esophag* N5 malignancy OR esophag* N5 adenocarcinoma* OR esophag* N5 adenoma* OR neoplas* N5 esophagus OR
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	tumor* N5 esophagus OR tumour* N5 esophagus OR cancer* N5 esophagus OR carcinoma* N5 esophagus OR malignancy N5 esophagus OR adenocarcinoma* N5 esophagus OR adenoma* N5 esophagus OR oesophag* N5 neoplas* OR oesophag* N5 tumor* OR oesophag* N5 tumour* OR oesophag* N5 cancer* OR oesophag* N5 carcinoma* OR oesophag* N5 malignancy OR oesophag* N5 adenocarcinoma* OR oesophag* N5 adenoma* OR neoplas* N5 oesophagus OR tumor* N5 oesophagus OR tumour* N5 oesophagus OR cancer* N5 oesophagus OR carcinoma* N5 oesophagus OR malignancy* N5 oesophagus OR adenocarcinoma* N5 oesophagus OR adenoma* N5 oesophagus OR barrett* N5 neoplas* OR barrett* N5 tumor* OR barrett* N5 tumour* OR barrett* N5 cancer* OR barrett* N5 carcinoma* OR barrett* N5 malignancy OR barrett* N5 adenocarcinoma* OR barrett* N5 adenoma* OR cardia N5 neoplas* OR cardia N5 tumor* OR cardia N5 tumour* OR cardia N5 cancer* OR cardia N5 carcinoma* OR cardia N5 malignancy OR cardia N5 adenocarcinoma* OR cardia N5 adenoma*)
2	(TX (esophag* N5 Squamous N5 Cell N5 carcinoma* OR oesophag* N5 Squamous N5 Cell N5 carcinoma*))
3	(TX (gastroesophageal N5 Junction* OR gastroesophageal N5 Junction* OR esophagogastric N5 Junction* OR oesophagogastric N5 Junction*)) AND (MH "Adenocarcinoma" OR (TX (neoplas* OR tumor* OR tumour* OR cancer* OR carcinoma* OR malignancy OR adenocarcinoma* OR adenoma*))))
4	(MH "Surgery, Operative+" OR TX (surg*" OR operat* OR preoperative* Esophagectom* OR Oesophagectom* OR esophag* N5 gastrectom* OR oesophag* N5 gastrectom*))
5	MH "Minimally Invasive Procedures+" OR TX Minimal* OR MH "Robotic Surgical Procedures" OR TX (Robot* OR "Video assisted") OR MH "Thoracoscopy" OR MH "Laparoscopy" OR TX (hybrid* OR Laparoscop* OR Laparo N5 scop* OR Thoracoscop*)
6	MH randomized controlled trials OR MH double-blind studies OR MH single-blind studies OR MH random assignment OR MH pretest-posttest design OR MH cluster sample OR TI (randomised OR randomized) OR AB (random*) OR TI (trial) OR (MH (sample size) AND AB (assigned OR allocated OR control)) OR MH (placebos) OR PT (randomized controlled trial) OR AB (control W5 group) OR MH (crossover design) OR MH (comparative studies) OR AB (cluster W3 RCT) OR MH "Meta Analysis" OR MH "Systematic Review" OR (TX ("systematic review" OR Metaanalys* OR "Meta analys*"))
7	S1 OR S2 OR S3
8	S4 AND S5 AND S6 AND S7

Clinical Trial Gov
<http://www.clinicaltrials.gov/>

P1

1	"esophagus neoplasm" OR "Barrett Esophagus" OR "esophagus tumor" OR "esophagus tumour" OR "esophagus cancer" OR "esophagus carcinoma" OR "esophagus malignancy" OR "esophagus adenocarcinoma" OR "esophagus adenoma" OR "neoplasm of the esophagus" OR "neoplasm of esophagus" OR "tumor of the esophagus" OR "tumor of esophagus" OR "tumour of the esophagus" OR "tumour of esophagus" OR "cancer of the esophagus" OR "cancer of esophagus" OR "carcinoma of the esophagus" OR "carcinoma of esophagus" OR "malignancy of the esophagus" OR "malignancy of esophagus" OR "adenocarcinoma of the esophagus" OR "adenocarcinoma of esophagus" OR "adenoma of the esophagus" OR "adenoma of esophagus" OR "esophageal neoplasm" OR "esophageal tumor" OR "esophageal tumour" OR "esophageal cancer" OR "esophageal carcinoma" OR "esophageal malignancy" OR "esophageal adenocarcinoma" OR "esophageal adenoma" OR "oesophagus neoplasm" OR "oesophagus tumor" OR "oesophagus tumour" OR "oesophagus cancer" OR "oesophagus carcinoma" OR "oesophagus malignancy" OR "oesophagus adenocarcinoma" OR "oesophagus adenoma" OR "neoplasm of the oesophagus" OR "neoplasm of oesophagus" OR "tumor of the oesophagus" OR "tumor of oesophagus" OR "tumour of the oesophagus" OR "tumour of oesophagus" OR "cancer of the oesophagus" OR "cancer of oesophagus" OR "carcinoma of the oesophagus" OR "carcinoma of oesophagus" OR "malignancy of the oesophagus" OR "malignancy of oesophagus" OR "adenocarcinoma of the oesophagus" OR "adenocarcinoma of oesophagus" OR "adenoma of the oesophagus" OR "adenoma of oesophagus" OR "oesophageal neoplasm" OR "oesophageal tumor" OR "oesophageal tumour" OR	
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	"oesophageal cancer" OR "oesophageal carcinoma" OR "oesophageal malignancy" OR "oesophageal adenocarcinoma" OR "oesophageal adenoma" OR "barrett neoplasm" OR "barrett tumor" OR "barrett tumour" OR "barrett cancer" OR "barrett carcinoma" OR "barrett malignancy" OR "barrett adenocarcinoma" OR "barrett adenoma" OR "barretts neoplasm" OR "barretts tumor" OR "barretts tumour" OR "barretts cancer" OR "barretts carcinoma" OR "barretts malignancy" OR "barretts adenocarcinoma" OR "barretts adenoma" OR "barrett s neoplasm" OR "barrett s tumor" OR "barrett s tumour" OR "barrett s cancer" OR "barrett s carcinoma" OR "barrett s malignancy" OR "barrett s adenocarcinoma" OR "barrett s adenoma" OR "cardia neoplasm" OR "cardia tumor" OR "cardia tumour" OR "cardia cancer" OR "cardia carcinoma" OR "cardia malignancy" OR "cardia adenocarcinoma" OR "cardia adenoma"	
P2		
2	"esophagus Squamous Cell carcinoma" OR "oesophagus Squamous Cell carcinoma" OR "esophageal Squamous Cell carcinoma" OR "oesophageal Squamous Cell carcinoma"	
P3		
3	("gastroesophageal Junction" OR "gastrooesophageal Junction" OR "esophagogastric Junction" OR "oesophagogastric Junction") AND (Neoplasm OR tumor OR tumour OR cancer OR carcinoma OR malignancy OR adenocarcinoma OR adenoma)	
I		
4	surgery OR "Surgical Oncology" OR Esophagectomy OR Oesophagectomy OR	

	"esophago gastrectomy" OR "oesophago gastrectomy" OR operative OR preoperative	
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C

5	Minimal OR Robot OR "Video assisted" OR hybrid OR Laparoscopy OR Thoracoscopy	
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Strings

1	("esophagus neoplasm" OR "Barrett Esophagus" OR "esophagus tumor" OR "esophagus tumour" OR "esophagus cancer" OR "esophagus carcinoma" OR "esophagus malignancy" OR "esophagus adenocarcinoma" OR "esophagus adenoma" OR "neoplasm of the esophagus" OR "neoplasm of esophagus" OR "tumor of the esophagus" OR "tumor of esophagus" OR "tumour of the esophagus" OR "tumour of esophagus" OR "cancer of the esophagus" OR "cancer of esophagus" OR "carcinoma of the esophagus" OR "carcinoma of esophagus" OR "malignancy of the esophagus" OR "malignancy of esophagus" OR "adenocarcinoma of the esophagus" OR "adenocarcinoma of esophagus" OR "adenoma of the esophagus" OR "adenoma of esophagus" OR "esophageal neoplasm" OR "esophageal tumor" OR "esophageal tumour" OR "esophageal cancer" OR "esophageal carcinoma" OR "esophageal malignancy" OR "esophageal adenocarcinoma" OR "esophageal adenoma" OR "oesophagus neoplasm" OR "oesophagus tumor" OR "oesophagus tumour" OR "oesophagus cancer" OR "oesophagus carcinoma" OR "oesophagus malignancy" OR "oesophagus adenocarcinoma" OR "oesophagus adenoma" OR "neoplasm of the oesophagus" OR "neoplasm of oesophagus" OR "tumor of the oesophagus" OR "tumor of oesophagus" OR "tumour of the oesophagus" OR "tumour of oesophagus" OR "cancer of the oesophagus" OR "cancer of oesophagus" OR "carcinoma of the oesophagus" OR "carcinoma of oesophagus" OR "malignancy of the oesophagus" OR "malignancy of oesophagus" OR "adenocarcinoma of the oesophagus" OR "adenocarcinoma of oesophagus" OR "adenoma of the oesophagus" OR "adenoma of oesophagus" OR "oesophageal neoplasm" OR "oesophageal tumor" OR "oesophageal tumour" OR "oesophageal cancer" OR "oesophageal carcinoma" OR "oesophageal malignancy" OR "oesophageal adenocarcinoma" OR "oesophageal adenoma" OR "barrett neoplasm" OR "barrett tumor" OR "barrett tumour" OR "barrett cancer" OR "barrett carcinoma" OR "barrett malignancy" OR "barrett adenocarcinoma" OR "barrett adenoma" OR "barretts neoplasm" OR "barretts tumor" OR "barretts tumour" OR "barretts cancer" OR "barretts carcinoma" OR "barretts malignancy" OR "barretts adenocarcinoma" OR "barretts adenoma" OR "barrett s neoplasm" OR "barrett s tumor" OR "barrett s tumour" OR "barrett s cancer" OR "barrett s carcinoma" OR "barrett s malignancy" OR "barrett s adenocarcinoma" OR "barrett s adenoma" OR "cardia neoplasm" OR "cardia tumor" OR "cardia tumour" OR "cardia cancer" OR "cardia carcinoma" OR "cardia malignancy" OR "cardia adenocarcinoma" OR "cardia adenoma") OR
2	(EXPAND[Concept] "esophagus Squamous Cell carcinoma" OR EXPAND[Concept] "oesophagus Squamous Cell carcinoma" OR EXPAND[Concept] "esophageal Squamous Cell carcinoma" OR EXPAND[Concept] "oesophageal Squamous Cell carcinoma") OR
3	((EXPAND[Concept] "gastroesophageal Junction" OR EXPAND[Concept] "gastroesophageal Junction" OR EXPAND[Concept] "esophagogastric Junction" OR EXPAND[Concept] "oesophagogastric Junction") AND (Neoplasm OR tumor OR tumour OR cancer OR carcinoma OR malignancy OR adenocarcinoma OR adenoma))
4	(surgery OR EXPAND[Concept] "Surgical Oncology" OR Esophagectomy OR Oesophagectomy OR EXPAND[Concept] "esophago gastrectomy" OR EXPAND[Concept] "oesophago gastrectomy" OR operative OR preoperative) AND
5	(Minimal OR Robot OR EXPAND[Concept] "Video assisted" OR hybrid OR Laparoscopy OR Thoracoscopy)

6	1 OR 2 OR 3
7	4 AND 5 AND 6

International Clinical Trials Registry Platform ICTRP (WHO Trials)

<https://trialsearch.who.int/> (simple)
<https://trialsearch.who.int/AdvSearch.aspx> (advanced)

Hits
advanced mode: 0
simple mode: 2

P1 / P2 / P3

1	esophagus neoplasm OR esophageal Squamous Cell carcinoma OR gastroesophageal Junction neoplasm	
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I

2	surgery	
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C

3	Minimal OR Robot OR Video assisted OR hybrid OR Laparoscopy OR Thoracoscopy	
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Strings (in advanced mode)

Fields	String
1 (Title)	Minimal OR Robot OR Video assisted OR hybrid OR Laparoscopy OR Thoracoscopy
2 (Condition)	esophagus neoplasm OR esophageal Squamous Cell carcinoma OR gastroesophageal Junction neoplasm
3 (Intervention)	surgery
1 AND 2 AND 3	

String in simple search mode for 1 AND 2 AND 3 (in simple mode)

	esophagus neoplasm AND surgery AND Minimal OR esophagus neoplasm AND surgery AND Robot OR esophagus neoplasm AND surgery AND hybrid OR esophagus neoplasm AND surgery AND Laparoscopy OR esophagus neoplasm AND surgery AND Thoracoscopy OR esophageal Squamous Cell carcinoma AND surgery AND Minimal OR esophageal Squamous Cell carcinoma AND surgery AND Robot OR esophageal Squamous Cell carcinoma AND surgery AND hybrid OR esophageal Squamous Cell carcinoma AND surgery AND Laparoscopy OR esophageal Squamous Cell carcinoma AND surgery AND Thoracoscopy OR gastroesophageal Junction neoplasm AND surgery AND Minimal OR gastroesophageal Junction neoplasm AND surgery AND Robot OR gastroesophageal Junction neoplasm AND surgery AND hybrid OR gastroesophageal Junction neoplasm AND surgery AND Laparoscopy OR gastroesophageal Junction neoplasm AND surgery AND Thoracoscopy
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