

Colorectal cancer (update)

Combined literature search strategies

NICE guideline TBC

Literature search strategies

May 2019

Early submission

Developed by the National Guideline Alliance hosted by the Royal College of Obstetricians and Gynaecologists

Disclaimer

The recommendations in this guideline represent the view of NICE, arrived at after careful consideration of the evidence available. When exercising their judgement, professionals are expected to take this guideline fully into account, alongside the individual needs, preferences and values of their patients or service users. The recommendations in this guideline are not mandatory and the guideline does not override the responsibility of healthcare professionals to make decisions appropriate to the circumstances of the individual patient, in consultation with the patient and/or their carer or guardian.

Local commissioners and/or providers have a responsibility to enable the guideline to be applied when individual health professionals and their patients or service users wish to use it. They should do so in the context of local and national priorities for funding and developing services, and in light of their duties to have due regard to the need to eliminate unlawful discrimination, to advance equality of opportunity and to reduce health inequalities. Nothing in this guideline should be interpreted in a way that would be inconsistent with compliance with those duties.

NICE guidelines cover health and care in England. Decisions on how they apply in other UK countries are made by ministers in the [Welsh Government](#), [Scottish Government](#), and [Northern Ireland Executive](#). All NICE guidance is subject to regular review and may be updated or withdrawn.

Copyright

© NICE 2019. All rights reserved. Subject to [Notice of Rights](#).

ISBN:

Contents

Clinical literature search strategies	5
A. Prevention of colorectal cancer	5
A1. Effectiveness of aspirin in the prevention of colorectal cancer in people with Lynch syndrome	5
B. Molecular biomarkers	7
B1. Use of molecular biomarkers to guide systemic therapy	7
C. Management of local disease.....	9
C1. Treatment for early rectal cancer	9
C2. Preoperative radiotherapy and chemoradiotherapy for rectal cancer	9
C3. Optimal surgical technique for rectal cancer.....	9
C4. Deferral of surgery in people having neoadjuvant therapy for rectal cancer ..	12
C5. Effectiveness of exenterative surgery for locally advanced or recurrent rectal cancer	14
C6. Endoscopic resection alone for early colon cancer.....	15
C7. Preoperative chemotherapy for non-metastatic colon cancer.....	17
C8. Optimal duration of adjuvant chemotherapy for colorectal cancer	18
C9. Effectiveness of stenting for acute large bowel obstruction	20
D. Management of metastatic disease.....	21
D1. Surgery for asymptomatic primary tumour	21
D2. Treatment for metastatic colorectal cancer in the liver	23
D3. Treatment for metastatic colorectal cancer in the lung amenable to local treatment.....	27
D4. Local and systemic treatments for metastatic colorectal cancer isolated in the peritoneum.....	30
E. Ongoing care and support.....	32
E1. Follow-up to detect recurrence after treatment for non-metastatic colorectal cancer.....	32
E2. Optimal management of low anterior resection syndrome	33
E3. Information needs of people prior, during and after treatment for colorectal cancer.....	35
F. Service delivery	38
F1. Surgical volumes and outcomes for rectal cancer.....	38
Economic literature search strategies	41

Clinical literature search strategies

A. Prevention of colorectal cancer

A1. Effectiveness of aspirin in the prevention of colorectal cancer in people with Lynch syndrome

Review question: How effective is aspirin in the prevention of colorectal cancer in adults with Lynch syndrome (hereditary nonpolyposis colorectal cancer)?

Databases: Embase/Medline

Last searched on: 24/10/2017

#	Search
1	exp Colorectal Neoplasms, Hereditary Nonpolyposis/ or exp Adenomatous Polyposis Coli/
2	1 use pmz
3	exp hereditary nonpolyposis colorectal cancer/ or exp colon polyposis/
4	3 use oomezd
5	(Hereditary Nonpolyposis Colorectal Cancer or HNPCC or lynch syndrome).ti,ab.
6	2 or 4 or 5
7	exp Aspirin/ or exp Anticarcinogenic Agents/ or exp Anti-Inflammatory Agents, Non-Steroidal/ or exp Antineoplastic Agents/ or exp Chemoprevention/ or exp Drug Therapy, Combination/ or exp Starch/
8	7 use pmz
9	exp acetylsalicylic acid/ or exp antineoplastic agent/ or exp nonsteroid antiinflammatory agent/ or exp chemoprophylaxis/ or exp combination drug therapy/ or exp starch/
10	9 use oomezd
11	(aspirin or acetylsalicylic acid or anticarcinog* or anti?inflammat* or NSAID* or antineoplas* or chemoprevent* or chemoprophyla* or starch).ti,ab.
12	8 or 10 or 11
13	6 and 12
14	exp colon cancer/dt, pc or exp rectum cancer/dt, pc
15	14 use oomezd
16	exp Colorectal Neoplasms/dt, pc
17	16 use pmz
18	15 or 17
19	exp aspirin/
20	19 use pmz
21	exp acetylsalicylic acid/
22	21 use oomezd
23	20 or 22
24	18 and 23
25	13 or 24
26	limit 25 to english language
27	(conference abstract or letter).pt. or letter/ or editorial.pt. or note.pt. or case report/ or case study/ use oomezd
28	Letter/ or editorial/ or news/ or historical article/ or anecdotes as topic/ or comment/ or case report/ use pmz
29	(letter or comment* or abstracts).ti.
30	or/27-29
31	randomized controlled trial/ use pmz
32	randomized controlled trial/ use oomezd
33	random*.ti,ab.
34	or/31-33
35	30 not 34
36	(animals/ not humans/) or exp animals, laboratory/ or exp animal experimentation/ or exp models, animal/ or exp rodentia/ use pmz
37	(animal/ not human/) or nonhuman/ or exp animal experiment/ or exp experimental animal/ or animal model/ or exp rodent/ use oomezd
38	(rat or rats or mouse or mice).ti.
39	35 or 36 or 37 or 38
40	clinical Trials as topic.sh. or (controlled clinical trial or pragmatic clinical trial or randomized controlled trial).pt. or (placebo or randomi#ed or randomly).ab. or trial.ti.
41	40 use pmz

EARLY SUBMISSION

#	Search
42	crossover procedure/ or double blind procedure/ or randomized controlled trial/ or single blind procedure/ or (assign* or allocat* or crossover* or cross over* or ((doubl* or singl*) adj blind*) or factorial* or placebo* or random* or volunteer*).ti,ab.
43	42 use oemez
44	or/41,43
45	26 not 39
46	44 and 45
47	epidemiologic studies/ or observational study/ or case control studies/ or retrospective studies/ or cohort studies/ or longitudinal studies/ or follow-up studies/ or prospective studies/ or cross-sectional studies/
48	47 use pmz
49	exp observational study/ or exp case control study/ or exp retrospective study/ or exp cohort analysis/ or exp longitudinal study/ or exp follow up/ or exp prospective study/ or exp cross-sectional study/
50	49 use oemez
51	((retrospective* or cohort* or longitudinal or follow?up or prospective or cross section*) adj3 (stud* or research or analys*)).ti.
52	48 or 50 or 51
53	45 and 52
54	limit 53 to yr="1997 -Current"
55	46 or 54

Database: Cochrane Library

Last searched on: 25/10/2017

#	Search
1	MeSH descriptor: [Colorectal Neoplasms, Hereditary Nonpolyposis] explode all trees
2	MeSH descriptor: [Adenomatous Polyposis Coli] explode all trees
3	Hereditary Nonpolyposis Colorectal Cancer or HNPCC or lynch syndrome
4	#1 or #2 or #3
5	MeSH descriptor: [Aspirin] explode all trees
6	MeSH descriptor: [Anticarcinogenic Agents] explode all trees
7	MeSH descriptor: [Anti-Inflammatory Agents, Non-Steroidal] explode all trees
8	MeSH descriptor: [Antineoplastic Agents] explode all trees
9	MeSH descriptor: [Chemoprevention] explode all trees
10	MeSH descriptor: [Drug Therapy, Combination] explode all trees
11	MeSH descriptor: [Starch] explode all trees
12	aspirin or acetylsalicylic acid or anticarcinog* or anti?inflammat* or NSAID* or antineoplas* or chemoprevent* or chemoprophyla* or starch
13	#5 or #6 or #7 or #8 or #9 or #10 or #11 or #12
14	#4 and #13
15	MeSH descriptor: [Colorectal Neoplasms] explode all trees and with qualifier(s): [Drug therapy - DT, Prevention & control - PC]
16	#5 and #15
17	#14 or #16

Database: Web of Science

Last searched on: 25/10/2017

#	Search
5	(#4) AND LANGUAGE: (English)
4	#2 AND #1 Refined by: DOCUMENT TYPES: (ARTICLE OR REVIEW)
3	#2 AND #1
2	ts=aspirin or ts=acetylsalicylic acid or ts=anticarcinog* or ts=anti?inflammat* or ts=NSAID* or ts=antineoplas* or ts=chemoprevent* or ts=chemoprophyla* or ts=starch or ts=combination drug therapy
1	ts=Hereditary Nonpolyposis Colorectal Cancer or ts=HNPCC or ts=lynch syndrome or ts=Adenomatous Polyposis Coli

B. Molecular biomarkers

B1. Use of molecular biomarkers to guide systemic therapy

Review question: Which predictive biomarkers should be used in the systemic management of colorectal cancer patients?

Databases: Embase/Medline

Last searched on: 31/10/2018

#	Search
1	exp colorectal neoplasms/ use ppez
2	(exp colorectal cancer/ or exp colon tumor/ or exp rectum tumor/) use emez
3	((colorect* or colo rect* or colon or colonic or rectal or rectum) adj3 (adenocarcinoma* or cancer* or carcinoma* or malignan* or neoplas* or oncolog* or tumo?*r*)).tw.
4	or/1-3
5	exp *antineoplastic agent/ use emez or exp *antineoplastic agents/ use ppez
6	exp *Antineoplastic Protocols/ use ppez
7	exp *chemotherapy/ use emez
8	Cancer Vaccines/ use ppez
9	cancer vaccine/ use emez
10	cancer immunotherapy/ use emez
11	exp *antibodies, monoclonal/ use ppez
12	*monoclonal antibody/ use emez
13	((anti canc* or anticanc* or anticarcinogen* or anti neoplas* or antineoplas* or cytotoxic*) adj2 (agent* or drug* or protocol* or regimen* or treatment* or therap*)).ti.
14	(SACT or chemotherap* or immunotherap* or biological agent* or biological therap*).ti.
15	systemic therap*.tw.
16	or/5-15
17	exp *Ras proteins/ use ppez
18	(ras protein/ or k ras protein/ or oncogene n ras/) use emez
19	((((ras or kras or k ras or nras or n ras) adj2 (wildtype or wild type or wt or mutant or mutat* or protein or gene)) and (predict* or prognos*)).tw.
20	*Proto-oncogene proteins B-Raf/ use ppez
21	*B raf kinase/ use emez
22	((Braf or b raf) adj3 v600e).tw.
23	exp *Phosphatidylinositol 3-Kinases/ use ppez
24	*phosphatidylinositol 3 kinase/ use emez
25	(PIK3CA and (predict* or prognos*)).tw.
26	DNA mismatch repair/ use ppez
27	*Mismatch repair/ use emez
28	((mismatch or MMR) adj3 (deficien* or deficit* or proficien*)).tw.
29	((Mismatch repair or MMR-d or MMR-p or dMMR or pMMR) and (predict* or prognos*)).tw.
30	*Microsatellite Instability/ use ppez or *microsatellite instability/ use emez
31	(microsatellite instability or microsatellite unstable or MSI-H).tw.
32	(MSI adj2 (cancer* or tumo?*r* or test* or status)).tw.
33	exp *cd3 complex/ use ppez
34	*cD3 antigen/ use emez
35	*Cd8 antigens/ use ppez
36	*CD8 antigen/ use emez
37	((((cd3 or cd8) adj3 (antigen* or protein* or complex or immunoscore or immuno score)) and (predict* or prognos*)).tw.
38	Programmed Cell Death 1 Receptor/ use ppez

EARLY SUBMISSION

#	Search
39	programmed death 1 receptor/ use emez
40	B7-H1 Antigen/ use ppez
41	programmed death 1 ligand 1/ use emez
42	((PD1 or PD-1 or PDL-1 or PDL1 or PD-L1) and (predict* or prognos*)).tw.
43	(coldx or col dx or oncotype dx).tw.
44	or/17-43
45	4 and 16 and 44
46	Letter/ use ppez
47	letter.pt. or letter/ use emez
48	note.pt.
49	editorial.pt.
50	Editorial/ use ppez
51	News/ use ppez
52	exp Historical Article/ use ppez
53	Anecdotes as Topic/ use ppez
54	Comment/ use ppez
55	Case Report/ use ppez
56	case report/ or case study/ use emez
57	(letter or comment*).ti.
58	or/46-57
59	randomized controlled trial/ use ppez
60	randomized controlled trial/ use emez
61	random*.ti,ab.
62	or/59-61
63	58 not 62
64	animals/ not humans/ use ppez
65	animal/ not human/ use emez
66	nonhuman/ use emez
67	exp Animals, Laboratory/ use ppez
68	exp Animal Experimentation/ use ppez
69	exp Animal Experiment/ use emez
70	exp Experimental Animal/ use emez
71	exp Models, Animal/ use ppez
72	animal model/ use emez
73	exp Rodentia/ use ppez
74	exp Rodent/ use emez
75	(rat or rats or mouse or mice).ti.
76	or/63-75
77	45 not 76
78	limit 77 to (yr="2000 - current" and english language)
79	remove duplicates from 78

Database: Cochrane Library

Last searched on: 31/10/2018

#	Search
1	MeSH descriptor: [Colorectal Neoplasms] explode all trees
2	((colorect* or colo rect* or colon or colonic or rectal or rectum) near/3 (adenocarcinoma* or cancer* or carcinoma* or malignan* or neoplas* or oncolog* or tumo?r*)):ti,ab,kw
3	#1 or #2
4	MeSH descriptor: [Antineoplastic Agents] explode all trees

EARLY SUBMISSION

#	Search
5	MeSH descriptor: [Antineoplastic Protocols] explode all trees
6	MeSH descriptor: [Cancer Vaccines] explode all trees
7	MeSH descriptor: [Antibodies, Monoclonal] explode all trees
8	((anti canc* or anticanc* or anticarcinogen* or anti neoplas* or antineoplas* or cytotoxic*) near/2 (agent* or drug* or protocol* or regimen* or treatment* or therap*)):ti,ab,kw
9	((chemotherap* or SACT or immunotherap* or biological agent* or biological therap*)):ti
10	(systemic therap*):kw,ab,ti
11	{or #4-#10}
12	MeSH descriptor: [ras Proteins] explode all trees
13	MeSH descriptor: [Genes, ras] this term only
14	((((ras or kras or k ras or nras or n ras) near/2 (wildtype or wild type or wt or mutant or mutat* or protein or gene)) and (predict* or prognos*)):ti,ab,kw
15	MeSH descriptor: [Proto-Oncogene Proteins B-raf] this term only
16	((Braf or b raf) near/3 v600e)):ti,ab,kw
17	MeSH descriptor: [Phosphatidylinositol 3-Kinases] explode all trees
18	((PIK3CA and (predict* or prognos*)):ti,ab,kw
19	MeSH descriptor: [DNA Mismatch Repair] explode all trees
20	((mismatch or MMR) near/3 (deficien* or deficit* or proficien*)):ti,ab,kw
21	((Mismatch repair or MMR-d or MMR-p or dMMR or pMMR) and (predict* or prognos*)):ti,ab,kw
22	MeSH descriptor: [Microsatellite Instability] explode all trees
23	((microsatellite instability or microsatellite unstable or MSI-H)):ti,ab,kw
24	((MSI near/2 (cancer* or tumo?r* or test* or status))):ti,ab,kw
25	MeSH descriptor: [CD3 Complex] explode all trees
26	MeSH descriptor: [CD8 Antigens] explode all trees
27	((cd3 or cd8) near/3 (antigen* or protein* or complex or immunoscore or immuno score)) and (predict* or prognos*)):ti,ab,kw
28	MeSH descriptor: [Programmed Cell Death 1 Receptor] explode all trees
29	MeSH descriptor: [B7-H1 Antigen] this term only
30	((PD1 or PD-1 or PDL-1 or PDL1 or PD-L1) and (predict* or prognos*)):ti,ab,kw
31	((coldx or col dx or oncotype dx)):ti,ab,kw
32	{or #12-#31}
33	#3 and #11 and #32 with Cochrane Library publication date Between Jan 2000 and Dec 2018

C. Management of local disease

A combined search was conducted for the following three review questions:

C1. Treatment for early rectal cancer

Review question: What is the most effective treatment for early rectal cancer?

C2. Preoperative radiotherapy and chemoradiotherapy for rectal cancer

Review question: What is the effectiveness of preoperative radiotherapy or chemoradiotherapy for rectal cancer?

C3. Optimal surgical technique for rectal cancer

Review question: What is the optimal surgical technique for rectal cancer?

EARLY SUBMISSION

Databases: Embase/Medline

Last searched on: 12/02/2019

#	Search
1	exp Rectal Neoplasms/ use pmz
2	*rectum cancer/ or *rectum tumour/
3	2 use oomezd
4	exp Adenocarcinoma/
5	(T1 or T2 or N0 or M0).ti,ab.
6	1 or 3
7	4 or 5
8	6 and 7
9	((rectal or rectum) adj3 (cancer* or neoplas* or malignan* or tumo?r* or carcinom* or adeno*)).ti,ab.
10	early rect* cancer.ti,ab.
11	6 or 8 or 9 or 10
12	exp radiotherapy/ or exp radiation oncology/ or exp external beam radiotherapy/ or exp Brachytherapy/ or exp preoperative care/ or exp neoadjuvant therapy/ or exp multimodality cancer therapy/ or exp chemotherapy/ or exp antineoplastic agent/ or exp drug therapy/ or exp chemoradiotherapy/ or exp fluorouracil/ or exp folinic acid/ or exp capecitabine/ or exp oxaliplatin/ or exp bevacizumab/ or exp methotrexate/ or exp radiation dose fractionation/ or exp tumour recurrence/
13	12 use oomezd
14	exp Radiotherapy/ or exp Radiation Oncology/ or exp Radiotherapy, Computer-Assisted/ or exp Brachytherapy/ or exp Preoperative Care/ or exp Neoadjuvant Therapy/ or exp Combined Modality Therapy/ or exp Chemoradiotherapy/ or exp Antineoplastic Combined Chemotherapy Protocols/ or exp Drug Therapy/ or exp Antineoplastic Agents/ or exp Fluorouracil/ or exp Leucovorin/ or exp Capecitabine/ or exp Bevacizumab/ or exp Methotrexate/ or exp Dose Fractionation/
15	14 use pmz
16	((radiotherap* or chemoradio* or radiation or brachytherapy* or chemotherapy*) adj (pre?op* or preop* or periop* or neoadjuvant)).ti,ab.
17	(5-fluorouracil or 5-FU or leucovorin or folinic acid or capecitabine or oxaliplatin or bevacizumab or methotrexate or dose* or fraction* or recurren*).ti,ab.
18	13 or 15 or 16 or 17
19	exp Laparoscopy/ or exp Transanal Endoscopic Microsurgery/ or exp Minimally Invasive Surgical Procedures/ or exp Endoscopy/ or exp Endoscopic Mucosal Resection/ or exp Surgical Procedures, Operative/ or exp Robotic Surgical Procedures/ or exp Surgery, Computer-Assisted/ or exp Dissection/
20	19 use pmz
21	exp laparoscopy/ or exp endoscopic surgery/ or exp transanal endoscopic microsurgery/ or exp endoscopy/ or exp minimally invasive surgery/ or exp endoscopic mucosal resection/ or exp surgery/ or exp robotic surgical procedure/ or exp computer assisted surgery/ or exp dissection/ or exp total mesorectal excision/ or exp excision/ or exp rectum resection/ or exp endoscopic polypectomy/ or exp polypectomy/ or exp endoscopic submucosal dissection/
22	21 use oomezd
23	(laparoscop* or endoscop* or transanal excision* or TAE or transanal endoscopic microsurger* or TEM or TEMS or transanal resection or TART or transanal minimally invasive surger* or TAMIS or total mesorectal excision* or TaTME or transanal total mesorectal excision* or TME or anterior resection* or abdominoperineal resection* or endoscopic resection* or polypectomy or endoscopic submucosal dissection* or ESD or endoscopic mucosal resection* or EMR or surger* or surgic* or operat*).ti,ab.
24	20 or 22 or 23
25	11 and 18
26	11 and 18 and 24
27	25 or 26
28	limit 27 to english language
29	limit 28 to yr="1997 -Current"
30	(conference abstract or letter).pt. or letter/ or editorial.pt. or note.pt. or case report/ or case study/ use oomezd
31	Letter/ or editorial/ or news/ or historical article/ or anecdotes as topic/ or comment/ or case report/ use pmz
32	(letter or comment* or abstracts).ti.
33	or/30-32
34	randomized controlled trial/ use pmz
35	randomized controlled trial/ use oomezd
36	random*.ti,ab.
37	or/34-36
38	33 not 37
39	(animals/ not humans/) or exp animals, laboratory/ or exp animal experimentation/ or exp models, animal/ or exp rodentia/ use pmz
40	(animal/ not human/) or nonhuman/ or exp animal experiment/ or exp experimental animal/ or animal model/ or exp rodent/ use oomezd
41	(rat or rats or mouse or mice).ti.
42	38 or 39 or 40 or 41
43	29 not 42

EARLY SUBMISSION

#	Search
44	clinical Trials as topic.sh. or (controlled clinical trial or pragmatic clinical trial or randomized controlled trial).pt. or (placebo or randomi#ed or randomly).ab. or trial.ti.
45	44 use prmz
46	crossover procedure/ or double blind procedure/ or randomized controlled trial/ or single blind procedure/ or (assign* or allocat* or crossover* or cross over* or ((doubl* or singl*) adj blind*) or factorial* or placebo* or random* or volunteer*).ti.ab.
47	46 use omezdz
48	or/45,47
49	43 and 48
50	epidemiologic studies/ or observational study/ or case control studies/ or retrospective studies/ or cohort studies/ or longitudinal studies/ or follow-up studies/ or prospective studies/ or cross-sectional studies/
51	50 use prmz
52	exp observational study/ or exp case control study/ or exp retrospective study/ or exp cohort analysis/ or exp longitudinal study/ or exp follow up/ or exp prospective study/ or exp cross-sectional study/
53	52 use omezdz
54	((retrospective* or cohort* or longitudinal or follow?up or prospective or cross section*) adj3 (stud* or research or analys*)).ti.
55	51 or 53 or 54
56	43 and 55
57	49 or 56
58	57 not 56
59	56 or 58

Database: Cochrane Library

Last searched on: 12/02/2019

#	Search
1	MeSH descriptor: [Rectal Neoplasms] explode all trees
2	MeSH descriptor: [Adenocarcinoma] explode all trees
3	T1 or T2 or N0 or M0
4	#2 or #3
5	#1 and #4
6	(rectal or rectum) near (cancer* or neoplas* or malignan* or tumo?r* or carcinom* or adeno*)
7	early rect* cancer
8	#1 or #5 or #6 or #7
9	MeSH descriptor: [Radiotherapy] explode all trees
10	MeSH descriptor: [Radiation Oncology] explode all trees
11	MeSH descriptor: [Radiotherapy, Computer-Assisted] explode all trees
12	MeSH descriptor: [Brachytherapy] explode all trees
13	MeSH descriptor: [Preoperative Care] explode all trees
14	MeSH descriptor: [Neoadjuvant Therapy] explode all trees
15	MeSH descriptor: [Combined Modality Therapy] explode all trees
16	MeSH descriptor: [Chemoradiotherapy] explode all trees
17	MeSH descriptor: [Antineoplastic Combined Chemotherapy Protocols] explode all trees
18	MeSH descriptor: [Drug Therapy] explode all trees
19	MeSH descriptor: [Antineoplastic Agents] explode all trees
20	MeSH descriptor: [Fluorouracil] explode all trees
21	MeSH descriptor: [Capecitabine] explode all trees
22	MeSH descriptor: [Bevacizumab] explode all trees
23	MeSH descriptor: [Methotrexate] explode all trees
24	MeSH descriptor: [Dose Fractionation] explode all trees
25	(radiotherap* or chemoradio* or radiation or brachytherapy* or chemotherapy*) near (pre?op* or preop* or periop* or neoadjuvant)
26	5-fluorouracil or 5-FU or leucovorin or folinic acid or capecitabine or oxaliplatin or bevacizumab or methotrexate or dose* or fraction* or recurren*
27	#9 or #10 or #11 or #12 or #13 or #14 or #15 or #16 or #17 or #18 or #19 or #20 or #21 or #22 or #23 or #24 or #25 or #26
28	MeSH descriptor: [Laparoscopy] explode all trees
29	MeSH descriptor: [Transanal Endoscopic Microsurgery] explode all trees
30	MeSH descriptor: [Minimally Invasive Surgical Procedures] explode all trees
31	MeSH descriptor: [Endoscopy] explode all trees
32	MeSH descriptor: [Endoscopic Mucosal Resection] explode all trees
33	MeSH descriptor: [Surgical Procedures, Operative] explode all trees
34	MeSH descriptor: [Robotic Surgical Procedures] explode all trees
35	MeSH descriptor: [Surgery, Computer-Assisted] explode all trees

EARLY SUBMISSION

#	Search
36	MeSH descriptor: [Dissection] explode all trees
37	laparoscop* or endoscop* or transanal excision* or TAE or transanal endoscopic microsurger* or TEM or TEMS or transanal resection or TART or transanal minimally invasive surger* or TAMIS or total mesorectal excision* or TME or anterior resection* or abdominoperineal resection* or endoscopic resection* or polypectomy or endoscopic submucosal dissection* or ESD or endoscopic mucosal resection* or EMR or surger* or surgic* or operat*
38	#28 or #29 or #30 or #31 or #32 or #33 or #34 or #35 or #36 or #37
39	#8 and #27
40	#8 and #27 and #38
41	#39 or #40 Publication Year from 1997 to 2017

C4. Deferral of surgery in people having neoadjuvant therapy for rectal cancer

Review question: Which people having neoadjuvant chemotherapy or chemoradiotherapy for rectal cancer do not need surgery?

Databases: Embase/Medline

Last searched on: 12/02/2019

#	Search
1	exp Rectal Neoplasms/ use prmz
2	*rectum cancer/ or *rectum tumor/
3	2 use oomezd
4	exp Adenocarcinoma/
5	(T1 or T2 or N0 or M0).ti,ab.
6	1 or 3
7	4 or 5
8	6 and 7
9	((rectal or rectum) adj3 (cancer* or neoplas* or malignan* or tumo?* or carcinom* or adeno*)).ti,ab.
10	early rect* cancer.ti,ab.
11	6 or 8 or 9 or 10
12	exp radiotherapy/ or exp radiation oncology/ or exp external beam radiotherapy/ or exp Brachytherapy/ or exp preoperative care/ or exp neoadjuvant therapy/ or exp multimodality cancer therapy/ or exp chemotherapy/ or exp antineoplastic agent/ or exp drug therapy/ or exp chemoradiotherapy/ or exp fluorouracil/ or exp folinic acid/ or exp capecitabine/ or exp oxaliplatin/ or exp bevacizumab/ or exp methotrexate/ or exp radiation dose fractionation/ or exp tumor recurrence/ or exp radiotherapy dosage/
13	12 use oomezd
14	exp Radiotherapy/ or exp Radiation Oncology/ or exp Radiotherapy, Computer-Assisted/ or exp Brachytherapy/ or exp Preoperative Care/ or exp Neoadjuvant Therapy/ or exp Combined Modality Therapy/ or exp Chemoradiotherapy/ or exp Antineoplastic Combined Chemotherapy Protocols/ or exp Drug Therapy/ or exp Antineoplastic Agents/ or exp Fluorouracil/ or exp Leucovorin/ or exp Capecitabine/ or exp Bevacizumab/ or exp Methotrexate/ or exp Dose Fractionation/ or exp radiotherapy dosage/
15	14 use prmz
16	((radiotherap* or chemoradio* or radiation or brachytherapy* or chemotherapy*) adj (pre?op* or preop* or periop* or neoadjuvant)).ti,ab.
17	(5-fluorouracil or 5-FU or leucovorin or folinic acid or capecitabine or oxaliplatin or bevacizumab or methotrexate or dose* or fraction* or recurren*).ti,ab.
18	13 or 15 or 16 or 17
19	exp Organ Preservation/ or Organ Sparing Treatments/ or exp Treatment Outcome/ or exp Disease-Free Survival/ or exp Neoplasm Recurrence, Local/ or exp Neoplasm, Residual/ or exp Lymph Nodes/ or exp Risk Factors/ or exp Prognosis/ or exp Observation/ or exp Watchful Waiting/ or exp Time Factors/ or exp Comorbidity/ or exp Age Factors/ or exp Health Status/ or exp Health Status Indicators/ or exp Morbidity/ or exp Physical Fitness/
20	19 use prmz
21	exp organ preservation/ or exp conservative treatment/ or exp treatment outcome/ or exp disease free survival/ or exp tumor recurrence/ or exp minimal residual disease/ or lymph node/ or exp lymph node/ or exp risk factor/ or exp prognosis/ or exp observation/ or exp watchful waiting/ or exp time factor/ or exp adjuvant therapy/ or exp cancer control/ or exp comorbidity/ or exp health status indicator/ or exp morbidity/ or age/ or exp performance/ or fitness/ or (exp patient/ and exp health status/)
22	21 use oomezd
23	(prognos* or preservation or preserve* or sparing or complete response* or predict* or watch* or wait* or observ* or risk* or regrowth or recurren* or adjuvant or downstag* or downsize* or local control or residual or morbid* or poor perform* or delay* or unfit or fit or (lymph node adj (count or status)) or histolog* or outcome or ((avoid* or suit*) adj3 surger*).ti,ab.
24	20 or 22 or 23
25	11 and 18 and 24
26	limit 25 to english language

EARLY SUBMISSION

#	Search
27	limit 26 to yr="2000 -Current"
28	(conference abstract or letter).pt. or letter/ or editorial.pt. or note.pt. or case report/ or case study/ use oomezd
29	Letter/ or editorial/ or news/ or historical article/ or anecdotes as topic/ or comment/ or case report/ use pmz
30	(letter or comment* or abstracts).ti.
31	or/28-30
32	randomized controlled trial/ use pmz
33	randomized controlled trial/ use oomezd
34	random*.ti,ab.
35	or/32-34
36	31 not 35
37	(animals/ not humans/) or exp animals, laboratory/ or exp animal experimentation/ or exp models, animal/ or exp rodentia/ use pmz
38	(animal/ not human/) or nonhuman/ or exp animal experiment/ or exp experimental animal/ or animal model/ or exp rodent/ use oomezd
39	(rat or rats or mouse or mice).ti.
40	36 or 37 or 38 or 39
41	27 not 40

Database: Cochrane Library

Last searched on: 12/02/2019

#	Search
1	MeSH descriptor: [Rectal Neoplasms] explode all trees
2	MeSH descriptor: [Adenocarcinoma] explode all trees
3	T1 or T2 or N0 or M0
4	#2 or #3
5	#1 and #4
6	(rectal or rectum) near (cancer* or neoplas* or malignan* or tumo?r* or carcinom* or adeno*)
7	early rect* cancer
8	#1 or #5 or #6 or #7
9	MeSH descriptor: [Radiotherapy] explode all trees
10	MeSH descriptor: [Radiation Oncology] explode all trees
11	MeSH descriptor: [Radiotherapy, Computer-Assisted] explode all trees
12	MeSH descriptor: [Brachytherapy] explode all trees
13	MeSH descriptor: [Preoperative Care] explode all trees
14	MeSH descriptor: [Neoadjuvant Therapy] explode all trees
15	MeSH descriptor: [Combined Modality Therapy] explode all trees
16	MeSH descriptor: [Chemoradiotherapy] explode all trees
17	MeSH descriptor: [Antineoplastic Combined Chemotherapy Protocols] explode all trees
18	MeSH descriptor: [Drug Therapy] explode all trees
19	MeSH descriptor: [Antineoplastic Agents] explode all trees
20	MeSH descriptor: [Fluorouracil] explode all trees
21	MeSH descriptor: [Capecitabine] explode all trees
22	MeSH descriptor: [Bevacizumab] explode all trees
23	MeSH descriptor: [Methotrexate] explode all trees
24	MeSH descriptor: [Dose Fractionation] explode all trees
25	(radiotherap* or chemoradio* or radiation or brachytherapy* or chemotherapy*) near (pre?op* or preop* or periop* or neoadjuvant)
26	5-fluorouracil or 5-FU or leucovorin or folinic acid or capecitabine or oxaliplatin or bevacizumab or methotrexate or dose* or fraction* or recurren*
27	#9 or #10 or #11 or #12 or #13 or #14 or #15 or #16 or #17 or #18 or #19 or #20 or #21 or #22 or #23 or #24 or #25 or #26
28	MeSH descriptor: [Organ Preservation] explode all trees
29	MeSH descriptor: [Organ Sparing Treatments] explode all trees
30	MeSH descriptor: [Treatment Outcome] explode all trees
31	MeSH descriptor: [Disease-Free Survival] explode all trees
32	MeSH descriptor: [Neoplasm Recurrence, Local] explode all trees
33	MeSH descriptor: [Neoplasm, Residual] explode all trees
34	MeSH descriptor: [Lymph Nodes] explode all trees
35	MeSH descriptor: [Risk Factors] explode all trees
36	MeSH descriptor: [Prognosis] explode all trees
37	MeSH descriptor: [Observation] explode all trees
38	MeSH descriptor: [Watchful Waiting] explode all trees
39	MeSH descriptor: [Time Factors] explode all trees

EARLY SUBMISSION

#	Search
40	prognos* or preservation or preserve* or sparing or complete response* or predict* or watch* or wait* or observ* or risk* or regrowth or recurren* or adjuvant or downstag* or downsize* or local control or residual or histolog* or outcome
41	lymph node near (count or status)
42	(avoid* or suit*) near surger*
43	#28 or #29 or #30 or #31 or #32 or #33 or #34 or #35 or #36 or #37 or #38 or #39 or #40 or #41 or #42
44	#8 ad #27 and #43 Publication Year from 2000 to 2018

C5. Effectiveness of exenterative surgery for locally advanced or recurrent rectal cancer

Review question: What is the effectiveness of exenterative surgery for locally advanced or recurrent rectal cancer?

Databases: Embase/Medline

Last searched on: 15/02/2019

#	Search
1	(exp colorectal cancer/ or exp colon tumor/ or exp rectum cancer/ or exp rectum tumor/ or exp rectum carcinoma/) use emez
2	(exp rectal neoplasms/ or exp colorectal neoplasms/) use ppez
3	((colorect* or colo rect* or colon or colonic or rectal or rectum) adj3 (adenocarcinoma* or cancer* or carcinoma* or malignan* or neoplas* or oncolog* or tumo?r*)).tw.
4	or/1-3
5	pelvis exenteration/ use emez
6	Pelvic exenteration/ use ppez
7	exenterat*.tw.
8	Evisceration/ use emez
9	eviscerat*.tw.
10	((Abdominosacral or abdomin* sacral) adj3 resect*).tw.
11	(multiviscer* adj3 resect*).tw.
12	((Sacropelvic or sacral) adj3 resect*).tw.
13	sacrectom*.tw.
14	(pelvic adj3 resect*).tw.
15	radical resect*.tw.
16	or/5-15
17	4 and 16
18	limit 17 to english language
19	limit 18 to yr="2000 - current"
20	remove duplicates from 19
21	Letter/ use ppez
22	letter.pt. or letter/ use emez
23	note.pt.
24	editorial.pt.
25	Editorial/ use ppez
26	News/ use ppez
27	exp Historical Article/ use ppez
28	Anecdotes as Topic/ use ppez
29	Comment/ use ppez
30	Case Report/ use ppez
31	case report/ or case study/ use emez
32	(letter or comment*).ti.
33	or/21-32

EARLY SUBMISSION

#	Search
34	randomized controlled trial/ use ppez
35	randomized controlled trial/ use emez
36	random*.ti,ab.
37	or/34-36
38	33 not 37
39	animals/ not humans/ use ppez
40	animal/ not human/ use emez
41	nonhuman/ use emez
42	exp Animals, Laboratory/ use ppez
43	exp Animal Experimentation/ use ppez
44	exp Animal Experiment/ use emez
45	exp Experimental Animal/ use emez
46	exp Models, Animal/ use ppez
47	animal model/ use emez
48	exp Rodentia/ use ppez
49	exp Rodent/ use emez
50	(rat or rats or mouse or mice).ti.
51	or/38-50
52	20 not 51

Database: Cochrane Library

Last searched on: 15/02/2019

#	Search
1	MeSH descriptor: [Rectal Neoplasms] explode all trees
2	((rectal or rectum) near (adenocarcinoma* or cancer* or carcinoma* or malignan* or neoplas* or oncolog* or tumo?r*))
3	#1 or #2
4	MeSH descriptor: [Pelvic Exenteration] explode all trees
5	exenterat*
6	eviscerat*
7	((Abdominosacral or abdomin* sacral) near resect*)
8	(multiviscer* near resect*)
9	((Sacropelvic or sacral) near resect*)
10	sacrectom*
11	(pelvic near resect*)
12	radical resect*
13	{or #4-#12}
14	#3 and #13 Publication Year from 2000 to 2018

C6. Endoscopic resection alone for early colon cancer

Review question: Which people with early colon cancer can be treated with endoscopic resection alone?

Databases: Embase/Medline

Last searched on: 09/11/2018

#	Search
1	exp colorectal neoplasms/ use ppez
2	(exp colorectal cancer/ or exp colon tumor/) use emez

EARLY SUBMISSION

#	Search
3	((colorect* or colo rect* or colon or colonic) adj3 (adenocarcinoma* or cancer* or carcinoma* or malignan* or neoplas* or oncolog* or tumo?r*)).tw.
4	or/1-3
5	colonic polyps/ use ppez
6	(exp colon polyp/ or colorectal polyp/) use emez
7	((colorect* or colo rect* or colon or colonic) adj2 (adenocarcinoma or polyp or polyps or polypoid)).tw.
8	(t1 or n0 or M0 or (early adj2 (adenocarcinoma* or cancer* or carcinoma* or malignan* or neoplas* or oncolog* or tumo?r*))).tw.
9	or/5-8
10	endoscopic mucosal resection/ use ppez
11	(endoscopic surgery/ or endoscopic mucosal resection/ or endoscopic polypectomy/ or polypectomy/) use emez
12	(endoscopic adj3 (excision or management or polypectom* or resect* or therap*)).tw.
13	(colonoscopic adj2 polypectom*).tw.
14	or/10-13
15	4 and 9 and 14
16	Letter/ use ppez
17	letter.pt. or letter/ use emez
18	note.pt.
19	editorial.pt.
20	Editorial/ use ppez
21	News/ use ppez
22	exp Historical Article/ use ppez
23	Anecdotes as Topic/ use ppez
24	Comment/ use ppez
25	Case Report/ use ppez
26	case report/ or case study/ use emez
27	(letter or comment*).ti.
28	or/16-27
29	randomized controlled trial/ use ppez
30	randomized controlled trial/ use emez
31	random*.ti,ab.
32	or/29-31
33	28 not 32
34	animals/ not humans/ use ppez
35	animal/ not human/ use emez
36	nonhuman/ use emez
37	exp Animals, Laboratory/ use ppez
38	exp Animal Experimentation/ use ppez
39	exp Animal Experiment/ use emez
40	exp Experimental Animal/ use emez
41	exp Models, Animal/ use ppez
42	animal model/ use emez
43	exp Rodentia/ use ppez
44	exp Rodent/ use emez
45	(rat or rats or mouse or mice).ti.
46	or/33-45
47	15 not 46
48	limit 47 to (yr="2005 - current" and english language)
49	remove duplicates from 48

EARLY SUBMISSION

Database: Cochrane Library

Last searched on: 12/11/2018

#	Search
1	MeSH descriptor: [Colorectal Neoplasms] explode all trees
2	((colorect* or colo rect* or colon or colonic) near/3 (adenocarcinoma* or cancer* or carcinoma* or malignan* or neoplas* or oncolog* or tumo?r*)):ti,ab,kw
3	#1 or #2
4	MeSH descriptor: [Colonic Polyps] this term only
5	((colorect* or colo rect* or colon or colonic) near/2 (adenocarcinoma* or polyp or polyps or polypoid)):ti,ab,kw
6	(t1 or n0 or M0 or (early near/2 (adenocarcinoma* or cancer* or carcinoma* or malignan* or neoplas* or oncolog* or tumo?r*)):ti,ab,kw
7	{or #4-#6}
8	MeSH descriptor: [Endoscopic Mucosal Resection] this term only
9	(endoscopic near/3 (excision or management or polypectom* or resect* or therap*)):ti,ab,kw
10	(colonoscopic near/2 polypectom*):ti,ab,kw
11	{or #8-#10}
12	#3 and #7 and #11 with Cochrane Library publication date Between Jan 2005 and Dec 2018

C7. Preoperative chemotherapy for non-metastatic colon cancer

Review question: Which people with non-metastatic colon cancer would benefit from preoperative chemotherapy?

Databases: Embase/Medline

Last searched on: 31/10/2018

#	Search
1	exp colonic neoplasms/ use ppez
2	exp colon tumor/ use emez
3	((colon or colonic) adj3 (adenocarcinoma* or cancer* or carcinoma* or malignan* or neoplas* or oncolog* or tumo?r*)).tw.
4	or/1-3
5	(local* advanc* or locali?ed or non-metasta* or non metasta* or operable or operative or resectable).tw.
6	(t3 or t4 or m0 or N1 or N2).tw.
7	or/5-6
8	preoperative chemotherapy/ use emez
9	neoadjuvant chemotherapy/ use emez
10	Neoadjuvant Therapy/ use ppez
11	((preop* or pre?op* or neoadjuvant) adj3 (chemotherap* or therap* or treat*)).tw.
12	or/8-11
13	4 and 7 and 12
14	Letter/ use ppez
15	letter.pt. or letter/ use emez
16	note.pt.
17	editorial.pt.
18	Editorial/ use ppez
19	News/ use ppez
20	exp Historical Article/ use ppez
21	Anecdotes as Topic/ use ppez
22	Comment/ use ppez
23	Case Report/ use ppez
24	case report/ or case study/ use emez

EARLY SUBMISSION

#	Search
25	(letter or comment*).ti.
26	or/14-25
27	randomized controlled trial/ use ppez
28	randomized controlled trial/ use emez
29	random*.ti,ab.
30	or/27-29
31	26 not 30
32	animals/ not humans/ use ppez
33	animal/ not human/ use emez
34	nonhuman/ use emez
35	exp Animals, Laboratory/ use ppez
36	exp Animal Experimentation/ use ppez
37	exp Animal Experiment/ use emez
38	exp Experimental Animal/ use emez
39	exp Models, Animal/ use ppez
40	animal model/ use emez
41	exp Rodentia/ use ppez
42	exp Rodent/ use emez
43	(rat or rats or mouse or mice).ti.
44	or/31-43
45	13 not 44
46	limit 45 to (yr="2005 - current" and english language)
47	remove duplicates from 46

Database: Cochrane Library

Last searched on: 31/10/2018

#	Search
1	MeSH descriptor: [Colonic Neoplasms] explode all trees
2	((colon or colonic) near/3 (adenocarcinoma* or cancer* or carcinoma* or malignan* or neoplas* or oncolog* or tumo?r*)):kw,ti,ab
3	#1 or #2
4	(local* advanc* or locali?ed or non-metasta* or non metasta* or operable or operative or resectable):kw,ti,ab
5	(t3 or t4 or m0 or N1 or N2):kw,ti,ab
6	#4 or #5
7	MeSH descriptor: [Neoadjuvant Therapy] this term only
8	((preop* or pre?op* or neoadjuvant) near/3 (chemotherap* or therap* or treat*)):kw,ti,ab
9	#7 or #8
10	#3 and #6 and #9 with Cochrane Library publication date Between Jan 2005 and Dec 2018

C8. Optimal duration of adjuvant chemotherapy for colorectal cancer

Review question: What is the optimal duration of adjuvant chemotherapy for colorectal cancer?

Databases: Embase/Medline

Last searched on: 15/02/2019

#	Search
1	exp Colorectal Neoplasms/
2	1 use prmz
3	exp colorectal tumor/ or colorectal cancer/

EARLY SUBMISSION

#	Search
4	3 use omezd
5	((colorect* or colo rect*) adj3 (cancer* or neoplas* or oncolog* or malignan* or tumo?r* or carcinoma* or adenocarcinoma*)).ti,ab.
6	bowel cancer.ti,ab.
7	or/2,4-6
8	exp Antineoplastic Agents/ or exp Antineoplastic Protocols/ or exp Antineoplastic Combined Chemotherapy Protocols/ or exp Organoplatinum Compounds/ or exp Fluorouracil/ or exp Capecitabine/ or exp Chemotherapy, Adjuvant/ or exp Treatment Failure/ or exp Treatment Outcome/
9	8 use prmz
10	exp antineoplastic agent/ or exp clinical protocol/ or exp adjuvant chemotherapy/ or exp platinum complex/ or exp fluorouracil/ or exp capecitabine/ or exp oxaliplatin/ or exp capecitabine plus oxaliplatin/ or exp drug combination/ or exp drug efficacy/ or exp treatment response/ or exp cancer adjuvant therapy/ or exp cancer combination chemotherapy/ or exp treatment failure/ or exp clinical effectiveness/
11	10 use omezd
12	(adjuvant chemotherap* or 5?FU or fluorouracil or capecitabine or oxaliplatin or XELOX or FOLFOX or FOLFIRI or XELIRI).ti,ab.
13	or/9,11-12
14	7 and 13
15	exp Time Factors/ use prmz
16	exp time factor/ or exp statistical significance/ or exp treatment duration/
17	16 use omezd
18	(admin* or dose* or dosing* or dosage* or duration* or time* or course* or day* or month* or week*).ti,ab.
19	or/15,17-18
20	14 and 19
21	clinical Trials as topic.sh. or (controlled clinical trial or pragmatic clinical trial or randomized controlled trial).pt. or (placebo or randomi#ed or randomly).ab. or trial.ti.
22	21 use prmz
23	crossover procedure/ or double blind procedure/ or randomized controlled trial/ or single blind procedure/ or (assign* or allocat* or crossover* or cross over* or ((doub* or singl*) adj blind*) or factorial* or placebo* or random* or volunteer*).ti,ab.
24	23 use omezd
25	or/22,24
26	20 and 25
27	(conference abstract or letter).pt. or letter/ or editorial.pt. or note.pt. or case report/ or case study/ use omezd
28	Letter/ or editorial/ or news/ or historical article/ or anecdotes as topic/ or comment/ or case report/ use prmz
29	(letter or comment* or abstracts).ti.
30	or/27-29
31	randomized controlled trial/ use prmz
32	randomized controlled trial/ use omezd
33	random*.ti,ab.
34	or/31-33
35	30 not 34
36	(animals/ not humans/) or exp animals, laboratory/ or exp animal experimentation/ or exp models, animal/ or exp rodentia/ use prmz
37	(animal/ not human/) or nonhuman/ or exp animal experiment/ or exp experimental animal/ or animal model/ or exp rodent/ use omezd
38	(rat or rats or mouse or mice).ti.
39	35 or 36 or 37 or 38
40	26 not 39
41	limit 40 to english language
42	limit 41 to yr="2000 -Current"

Database: Cochrane Library

Last searched on: 15/02/2019

#	Search
1	MeSH descriptor: [Colorectal Neoplasms] explode all trees
2	colorect* or colo rect*
3	#1 or #2
4	MeSH descriptor: [Antineoplastic Agents] explode all trees
5	MeSH descriptor: [Antineoplastic Protocols] explode all trees
6	MeSH descriptor: [Antineoplastic Combined Chemotherapy Protocols] explode all trees
7	MeSH descriptor: [Organoplatinum Compounds] explode all trees
8	MeSH descriptor: [Fluorouracil] explode all trees
9	MeSH descriptor: [Capecitabine] explode all trees
10	MeSH descriptor: [Chemotherapy, Adjuvant] explode all trees

EARLY SUBMISSION

#	Search
11	MeSH descriptor: [Treatment Failure] explode all trees
12	MeSH descriptor: [Treatment Outcome] explode all trees
13	adjuvant chemotherap* or 5?FU or fluorouracil or capecitabine or oxaliplatin or XELOX or FOLFOX or FOLFIRI or XELIRI
14	#4 or #5 or #6 or #7 or #8 or #9 or #10 or #11 or #12 or 13
15	MeSH descriptor: [Time Factors] explode all trees
16	admin* or dose* or dosing* or dosage* or duration* or time* or course* or day* or month* or week*
17	#15 or #16
18	#3 and #14 and #17 Publication Year from 2000 to 2018

C9. Effectiveness of stenting for acute large bowel obstruction

Review question: What is the effectiveness of stenting compared with emergency surgery for suspected colorectal cancer causing acute large bowel obstruction?

Databases: Embase/Medline

Last searched on: 10/01/2019

#	Search
1	(exp colorectal cancer/ or exp colon tumor/ or exp rectum tumor/) use emez
2	exp colorectal neoplasms/ use ppez
3	((colorect* or colo rect* or colon or colonic or rectal or rectum) adj3 (adenocarcinoma* or cancer* or carcinoma* or malignan* or neoplas* or oncolog* or tumo?*r*).tw.
4	or/1-3
5	intestine obstruction/ use emez
6	colon obstruction/ use emez
7	exp intestinal obstruction/ use ppez
8	((bowel or colon or colonic or gastrointestin* or intestine or intestinal) adj4 (obstruct* or block* or occlusion)).tw.
9	((adenocarcinoma* or cancer* or carcinoma* or malignan* or neoplas* or oncolog* or tumo?*r*) adj4 obstruct*).tw.
10	or/5-9
11	stent/ use emez
12	stents/ use ppez
13	stent*.tw.
14	or/11-13
15	4 and 10 and 14
16	remove duplicates from 15
17	limit 16 to (yr="2000 - current" and english language)
18	Letter/ use ppez
19	letter.pt. or letter/ use emez
20	note.pt.
21	editorial.pt.
22	Editorial/ use ppez
23	News/ use ppez
24	exp Historical Article/ use ppez
25	Anecdotes as Topic/ use ppez
26	Comment/ use ppez
27	Case Report/ use ppez
28	case report/ or case study/ use emez
29	(letter or comment*).ti.
30	or/18-29
31	randomized controlled trial/ use ppez
32	randomized controlled trial/ use emez
33	random*.ti,ab.

EARLY SUBMISSION

#	Search
34	or/31-33
35	30 not 34
36	animals/ not humans/ use ppez
37	animal/ not human/ use emez
38	nonhuman/ use emez
39	exp Animals, Laboratory/ use ppez
40	exp Animal Experimentation/ use ppez
41	exp Animal Experiment/ use emez
42	exp Experimental Animal/ use emez
43	exp Models, Animal/ use ppez
44	animal model/ use emez
45	exp Rodentia/ use ppez
46	exp Rodent/ use emez
47	(rat or rats or mouse or mice).ti.
48	or/35-47
49	17 not 48

Database: Cochrane Library

Last searched on: 10/01/2019

#	Search
1	MeSH descriptor: [Colorectal Neoplasms] explode all trees
2	((colorect* or colo rect* or colon or colonic or rectal or rectum) near/3 (adenocarcinoma* or cancer* or carcinoma* or malignan* or neoplas* or oncolog* or tumo*r*)):ti,ab,kw
3	#1 or #2
4	MeSH descriptor: [Intestinal Obstruction] explode all trees
5	((bowel or colon or colonic or gastrointestin* or intestine or intestinal) near/3 (obstruct* or block* or occlusion)):ti,ab,kw
6	((adenocarcinoma* or cancer* or carcinoma* or malignan* or neoplas* or oncolog* or tumo*r*) near/3 obstruct*):ti,ab,kw
7	#4 or #5 or #6
8	MeSH descriptor: [Stents] this term only
9	(stent*):ti,ab,kw
10	#8 or #9
11	#3 and #7 and #10 with Cochrane Library publication date Between Jan 2000 and Jan 2019

D. Management of metastatic disease

D1. Surgery for asymptomatic primary tumour

Review question: Does surgery for the asymptomatic primary tumour improve outcomes for people with metastatic colorectal cancer, which cannot be treated with curative intent?

Databases: Embase/Medline

Last searched on: 12/02/2019

#	Search
1	(exp colorectal cancer/ or exp colon tumor/ or exp rectum tumor/) use emez
2	exp colorectal neoplasms/ use ppez
3	((colorect* or colo rect* or colon or colonic or rectal or rectum) adj3 (adenocarcinoma* or cancer* or carcinoma* or malignan* or neoplas* or oncolog* or tumo*r*)):tw.

EARLY SUBMISSION

#	Search
4	or/1-3
5	metastasis/ use emez
6	neoplasm metastasis/ use ppez
7	(stage IV or stage 4 or advanc*).tw.
8	((unresect* or inopera* or untreat* or incurable*) adj3 (cancer* or tumo?r or metasta*)).tw.
9	or/5-8
10	4 and 9
11	(exp Surgery, Computer-Assisted/ or exp Dissection/ or Endoscopic Mucosal Resection/ or exp Laparoscopy/ or exp Minimally Invasive Surgical Procedures/ or exp Surgical Procedures, Operative/ or exp Transanal Endoscopic Surgery/) use ppez
12	(exp computer assisted surgery/ or dissection/ or endoscopic polypectomy/ or exp endoscopic surgery/ or exp excision/ or laparoscopic surgery/ or exp minimally invasive surgery/ or exp rectum resection/ or exp surgery/ or exp transanal endoscopic surgery/) use emez
13	(dissect* or endoscop* or EMR or ESD or excis* or laparoscop* or operat* or resect* or surger* or surgic* or TAE or TAMIS or TART or TaTME or TEM or TEMS or TME).tw.
14	or/11-13
15	primary tumor/ use emez
16	(primary adj2 tumo?r).tw.
17	or/15-16
18	14 and 17
19	10 and 18
20	limit 19 to (yr="1998 - current" and english language)
21	Letter/ use ppez
22	letter.pt. or letter/ use emez
23	note.pt.
24	editorial.pt.
25	Editorial/ use ppez
26	News/ use ppez
27	exp Historical Article/ use ppez
28	Anecdotes as Topic/ use ppez
29	Comment/ use ppez
30	Case Report/ use ppez
31	case report/ or case study/ use emez
32	(letter or comment*).ti.
33	or/21-32
34	randomized controlled trial/ use ppez
35	randomized controlled trial/ use emez
36	random*.ti,ab.
37	or/34-36
38	33 not 37
39	animals/ not humans/ use ppez
40	animal/ not human/ use emez
41	nonhuman/ use emez
42	exp Animals, Laboratory/ use ppez
43	exp Animal Experimentation/ use ppez
44	exp Animal Experiment/ use emez
45	exp Experimental Animal/ use emez
46	exp Models, Animal/ use ppez
47	animal model/ use emez
48	exp Rodentia/ use ppez
49	exp Rodent/ use emez
50	(rat or rats or mouse or mice).ti.

EARLY SUBMISSION

#	Search
51	or/38-50
52	20 not 51
53	remove duplicates from 52

Database: Cochrane Library

Last searched on: 12/02/2019

#	Search
1	MeSH descriptor: [Colorectal Neoplasms] explode all trees
2	((colorect* or colo rect* or colon or colonic or rectal or rectum) near/3 (adenocarcinoma* or cancer* or carcinoma* or malignan* or neoplas* or oncolog* or tumo?r*)):ti,ab,kw
3	#1 or #2
4	MeSH descriptor: [Neoplasm Metastasis] this term only
5	(stage IV or stage 4 or advanc*):ti,ab,kw
6	((unresect* or inopera* or untreat* or incurable*) near/3 (cancer* or tumo?r or metasta*)):ti,ab,kw
7	{or #4-#6}
8	MeSH descriptor: [Surgery, Computer-Assisted] explode all trees
9	MeSH descriptor: [Dissection] explode all trees
10	MeSH descriptor: [Endoscopic Mucosal Resection] this term only
11	MeSH descriptor: [Laparoscopy] explode all trees
12	MeSH descriptor: [Minimally Invasive Surgical Procedures] explode all trees
13	MeSH descriptor: [Surgical Procedures, Operative] explode all trees
14	MeSH descriptor: [Transanal Endoscopic Surgery] explode all trees
15	(dissect* or endoscop* or EMR or ESD or excis* or laparoscop* or operat* or resect* or surger* or surgic* or TAE or TAMIS or TART or TaTME or TEM or TEMS or TME):ti,ab,kw
16	{or #8-#15}
17	MeSH descriptor: [Neoplasms, Unknown Primary] explode all trees
18	(primary near/2 tumo?r):ti,ab,kw
19	{or #17-#18}
20	#3 and #7
21	#16 and #19
22	#20 and #21 Publication Year from 1998 to 2018

D2. Treatment for metastatic colorectal cancer in the liver

A combined search was conducted for the following two review questions:

D2a. Treatment for metastatic colorectal cancer in the liver amenable to local treatment

Review question: What is the optimal combination and sequence of treatments in patients presenting with metastatic colorectal cancer in the liver amenable to local treatment?

D2b. Treatment for metastatic colorectal cancer in the liver not amenable to local treatment

Review question: What is the optimal combination and sequence of treatments in patients presenting with metastatic colorectal cancer in the liver not amenable to local treatment?

Databases: Embase/Medline

Last searched on: 12/02/2019

EARLY SUBMISSION

#	Search
1	(exp colorectal cancer/ or exp colon tumor/ or exp rectum tumor/) use emez
2	exp colorectal neoplasms/ use ppez
3	((colorect* or colo rect* or colon or colonic or rectal or rectum) adj3 (adenocarcinoma* or cancer* or carcinoma* or malignan* or neoplas* or oncolog* or tumo?*r*)).tw.
4	or/1-3
5	liver metastasis/ use emez
6	liver/ use ppez
7	exp neoplasm metastasis/ use ppez
8	6 and 7
9	((Liver or hepatic*) adj3 (disseminat* or metasta* or migrat*)).tw.
10	((colorect* or colo rect* or colon or colonic or rectal or rectum) adj3 (liver metasta* or hepatic* metasta*)).tw.
11	5 or 8 or 9
12	4 and 11
13	10 or 12
14	hepatectomy/ use ppez or segmentectomy/ use emez
15	(Hepatectom* or segmentectom*).tw.
16	(exp liver resection/ or metastasis resection/) use emez
17	Metastasectomy/ use ppez
18	metastasectom*.tw.
19	((liver or hepatic*) adj3 (excis* or metastasectom* or resect* or surg*)).tw.
20	or/14-19
21	exp *antineoplastic agent/ use emez
22	exp antineoplastic agents/ use ppez
23	exp *Antineoplastic Protocols/ use ppez
24	multimodality cancer therapy/ use emez
25	cancer therapy/ use emez
26	exp *chemotherapy/ use emez
27	*cancer combination chemotherapy/ use emez
28	Cancer Vaccines/ use ppez
29	cancer vaccine/ use emez
30	cancer immunotherapy/ use emez
31	exp antibodies, monoclonal/ use ppez or monoclonal antibody/ use emez
32	chemosaturat*.tw.
33	((anti canc* or anticanc* or anticancerogen* or anticarcinogen* or anti neoplas* or antineoplas* or anti tumo?*r* or antitumo?*r* or cytotoxic*) adj3 (agent* or drug* or protocol* or regimen* or treatment* or therap*)).ti.
34	(SACT or chemotherap* or immunotherap* or biological agent* or biological therap*).ti.
35	or/21-34
36	20 and 35
37	((combin* or delay* or simultaneous* or stage*) adj3 (resect* or surg*)).tw.
38	(liver-first or liverfirst).tw.
39	bowel first.tw.
40	or/37-39
41	radiofrequency ablation/ use emez or ablation techniques/ use ppez
42	microwave thermotherapy/ use emez or irreversible electroporation/ use emez or electroporation/ use ppez
43	((percutaneous* or radiofrecuen* or radio-frecuen* or RF or microwave*) adj3 ablat*).tw.
44	electroporat*.tw.
45	(RFA or MWA or IRE).tw.
46	or/41-45
47	(radiosurgery/ or stereotactic body radiation therapy/ or stereotactic radiosurgery/ or cyberknife/) use emez
48	radiosurgery/ use ppez

EARLY SUBMISSION

#	Search
49	(Stereotactic* adj2 (irradiation* or RT or radiation* or radioablation* or radiosurg* or radiotherap* or therap* or treat*)).tw.
50	(SBRT or SABRT or SABR or cyberknife or cyber knife).tw.
51	or/47-50
52	chemoembolization/ use emez
53	exp embolization, therapeutic/ use ppez
54	((transarterial or trans-arterial or transcatheter or trans-catheter) adj2 chemoemboli?ation).tw.
55	(irinotecan adj4 beads).tw.
56	(DEBIRI or TACE).tw.
57	or/52-56
58	radioembolization/ use emez
59	radioemboli?ation.tw.
60	((intraarterial or intra-arterial) adj3 brachytherapy).tw.
61	(SIRT or "selective internal radiation therapy").tw.
62	or/58-61
63	limit 35 to yr="2000 - current"
64	limit 57 to yr="2000 - current"
65	limit 62 to yr="2000 - current"
66	36 or 40 or 46 or 51 or 63 or 64 or 65
67	13 and 66
68	limit 67 to (yr="1995 - current" and english language)
69	Letter/ use ppez
70	letter.pt. or letter/ use emez
71	note.pt.
72	editorial.pt.
73	Editorial/ use ppez
74	News/ use ppez
75	exp Historical Article/ use ppez
76	Anecdotes as Topic/ use ppez
77	Comment/ use ppez
78	Case Report/ use ppez
79	case report/ or case study/ use emez
80	(letter or comment*).ti.
81	or/69-80
82	randomized controlled trial/ use ppez
83	randomized controlled trial/ use emez
84	random*.ti,ab.
85	or/82-84
86	81 not 85
87	animals/ not humans/ use ppez
88	animal/ not human/ use emez
89	nonhuman/ use emez
90	exp Animals, Laboratory/ use ppez
91	exp Animal Experimentation/ use ppez
92	exp Animal Experiment/ use emez
93	exp Experimental Animal/ use emez
94	exp Models, Animal/ use ppez
95	animal model/ use emez
96	exp Rodentia/ use ppez
97	exp Rodent/ use emez

EARLY SUBMISSION

#	Search
98	(rat or rats or mouse or mice).ti.
99	or/86-98
100	67 not 99
101	limit 100 to (yr="1995 - current" and english language)
102	limit 101 to yr="1995 - 2012"
103	limit 101 to yr="2013-current"
104	remove duplicates from 102
105	remove duplicates from 103
106	104 or 105

Database: Cochrane Library

Last searched on: 12/02/2019

#	Search
1	MeSH descriptor: [Colorectal Neoplasms] explode all trees
2	((colorect* or colo rect* or colon or colonic or rectal or rectum) near/3 (adenocarcinoma* or cancer* or carcinoma* or malignan* or neoplas* or oncolog* or tumo?r*)):ti,ab,kw
3	#1 or #2
4	MeSH descriptor: [Neoplasm Metastasis] explode all trees
5	MeSH descriptor: [Liver] explode all trees
6	#4 and #5
7	((Liver or hepatic*) near/3 (disseminat* or metasta* or migrat*)):ti,ab,kw
8	((colorect* or colo rect* or colon or colonic or rectal or rectum) near/3 (liver metasta* or hepatic* metasta*)):ti,ab,kw
9	#6 or #7
10	#3 and #9
11	#8 or #10
12	MeSH descriptor: [Hepatectomy] this term only
13	(Hepatectom* or segmentectom*):ti,ab,kw
14	MeSH descriptor: [Metastasectomy] this term only
15	metastasectom*:ti,ab,kw
16	((liver or hepatic*) near/3 (excis* or metastasectom* or resect* or surg*)):ti,ab,kw
17	MeSH descriptor: [Antineoplastic Agents] explode all trees
18	MeSH descriptor: [Antineoplastic Protocols] explode all trees
19	MeSH descriptor: [Cancer Vaccines] explode all trees
20	MeSH descriptor: [Antibodies, Monoclonal] explode all trees
21	chemosaturat*:ti,ab,kw
22	((anti canc* or anticanc* or anticancerogen* or anticarcinogen* or anti neoplas* or antineoplas* or anti tumo?r* or antitumo?r* or cytotoxic*) near/3 (agent* or drug* or protocol* or regimen* or treatment* or therap*)):ti,ab,kw
23	(SACT or chemotherap* or chemosaturat* or immunotherap* or biological agent* or biological therap*):ti,ab,kw
24	((combin* or delay* or simultaneous* or stage*) near/3 (resect* or surg*)):ti,ab,kw
25	(liver-first or liverfirst):ti,ab,kw
26	"bowel first":ti,ab,kw
27	MeSH descriptor: [Ablation Techniques] explode all trees
28	((percutaneous* or radiofrequen* or radio-frequen* or RF or microwave*) near/3 ablat*):ti,ab,kw
29	electroporat*:ti,ab,kw
30	(RFA or MWA or IRE):ti,ab,kw
31	MeSH descriptor: [Radiosurgery] this term only
32	(Stereotactic* near/2 (irradiation* or RT or radiation* or radioablation* or radiosurg* or radiotherap* or therap* or treat*)):ti,ab,kw
33	(SBRT or SABRT or SABR or cyberknife or cyber knife):ti,ab,kw
34	MeSH descriptor: [Chemoembolization, Therapeutic] this term only

EARLY SUBMISSION

#	Search
35	((transarterial or trans-arterial or transcatheter or trans-catheter) near/2 chemoemboli?ation):ti,ab,kw
36	(irinotecan near/4 beads):ti,ab,kw
37	(DEBIRI or TACE):ti,ab,kw
38	radioemboli?ation:ti,ab,kw
39	((intraarterial or intra-arterial) near/3 brachytherapy):ti,ab,kw
40	(SIRT or "selective internal radiation therapy"):ti,ab,kw
41	{or #12-#40}
42	#11 and #41 Publication Year from 1995 to 2018

D3. Treatment for metastatic colorectal cancer in the lung amenable to local treatment

Review question: What is the optimal combination and sequence of treatments in patients presenting with metastatic colorectal cancer in the lung amenable to local treatment?

Databases: Embase/Medline

Last searched on: 16/05/2018

#	Search
1	(exp colorectal cancer/ or exp colon tumor/ or exp rectum tumor/) use emez
2	exp colorectal neoplasms/ use ppez
3	((colorect* or colo rect* or colon or colonic or rectal or rectum) adj3 (adenocarcinoma* or cancer* or carcinoma* or malignan* or neoplas* or oncolog* or tumo?r*)).tw.
4	or/1-3
5	Lung metastasis/ use emez
6	exp neoplasm metastasis/ use ppez
7	exp lung/ use ppez
8	6 and 7
9	((lung* or pulmonary) adj3 (disseminat* or metasta* or migrat*)).tw.
10	((colorect* or colo rect* or colon or colonic or rectal or rectum) adj3 pulmonary metasta*).tw.
11	5 or 8 or 9
12	4 and 11
13	12 or 10
14	(Lung resection/ or metastasis resection/) use emez
15	(Metastasectomy/ or pneumonectomy/ or thoracic surgery, video-assisted/) use ppez
16	metastasectom*.tw.
17	((lung* or pulmonary) adj3 (excis* or metastasectom* or resect* or surg*)).tw.
18	or/14-17
19	13 and 18
20	exp antineoplastic agent/ use emez or exp antineoplastic agents/ use ppez
21	exp Antineoplastic Protocols/ use ppez
22	exp chemotherapy/ use emez
23	Cancer Vaccines/ use ppez
24	cancer vaccine/ use emez
25	cancer immunotherapy/ use emez
26	exp antibodies, monoclonal/ use ppez
27	monoclonal antibody/ use emez
28	((anti canc* or anticanc* or anticarcinogen* or anti neoplas* or antineoplas* or cytotoxic*) adj3 (agent* or drug* or protocol* or regimen* or treatment* or therap*)).ti.
29	(SACT or chemotherap* or immunotherap* or biological agent* or biological therap*).ti.
30	or/20-29

EARLY SUBMISSION

#	Search
31	13 and 30
32	(radiosurgery/ or stereotactic body radiation therapy/ or stereotactic radiosurgery/ or cyberknife/) use emez
33	radiosurgery/ use ppez
34	(Stereotactic* adj2 (irradiation* or RT or radiation* or radioablation* or radiosurg* or radiotherap* or therap* or treat*)).tw.
35	(SBRT or SABRT or SABR or cyberknife or cyber knife).tw.
36	or/32-35
37	13 and 36
38	radiofrequency ablation/ use emez or ablation techniques/ use ppez
39	microwave thermotherapy/ use emez
40	irreversible electroporation/ use emez or electroporation/ use ppez
41	((percutaneous* or radiofrequen* or radio-frequen* or RF or microwave*) adj3 ablat*).tw.
42	electroporat*.tw.
43	(RFA or MWA or IRE).tw.
44	or/38-43
45	13 and 44
46	18 or 30 or 36 or 44
47	13 and 46
48	Letter/ use ppez
49	letter.pt. or letter/ use emez
50	note.pt.
51	editorial.pt.
52	Editorial/ use ppez
53	News/ use ppez
54	exp Historical Article/ use ppez
55	Anecdotes as Topic/ use ppez
56	Comment/ use ppez
57	Case Report/ use ppez
58	case report/ or case study/ use emez
59	(letter or comment*).ti.
60	or/48-59
61	randomized controlled trial/ use ppez
62	randomized controlled trial/ use emez
63	random*.ti,ab.
64	or/61-63
65	60 not 64
66	animals/ not humans/ use ppez
67	animal/ not human/ use emez
68	nonhuman/ use emez
69	exp Animals, Laboratory/ use ppez
70	exp Animal Experimentation/ use ppez
71	exp Animal Experiment/ use emez
72	exp Experimental Animal/ use emez
73	exp Models, Animal/ use ppez
74	animal model/ use emez
75	exp Rodentia/ use ppez
76	exp Rodent/ use emez
77	(rat or rats or mouse or mice).ti.
78	or/65-77
79	limit 47 to (english language and yr="2000-current")

EARLY SUBMISSION

#	Search
80	79 not 78
81	remove duplicates from 80

Database: Cochrane Library

Last searched on: 16/05/2018

#	Search
1	MeSH descriptor: [Colorectal Neoplasms] explode all trees
2	((colorect* or colo rect* or colon or colonic or rectal or rectum) near/3 (adenocarcinoma* or cancer* or carcinoma* or malignan* or neoplas* or oncolog* or tumo?r*)):ti,ab,kw (Word variations have been searched)
3	#1 or #2
4	MeSH descriptor: [Neoplasm Metastasis] explode all trees
5	MeSH descriptor: [Lung] explode all trees
6	#4 and #5
7	((lung* or pulmonary) near/3 (disseminat* or metasta* or migrat*)):ti,ab,kw (Word variations have been searched)
8	((colorect* or colo rect* or colon or colonic or rectal or rectum) near/3 pulmonary metasta*):ti,ab,kw (Word variations have been searched)
9	#6 or #7
10	#3 and #9
11	#10 or #8
12	MeSH descriptor: [Metastasectomy] this term only
13	MeSH descriptor: [Pneumonectomy] this term only
14	MeSH descriptor: [Thoracic Surgery, Video-Assisted] this term only
15	metastasectom*:ti,ab,kw (Word variations have been searched)
16	((lung* or pulmonary) near/3 (excis* or metastasectom* or resect* or surg*)):ti,ab,kw (Word variations have been searched)
17	{or #12-#16}
18	MeSH descriptor: [Antineoplastic Agents] explode all trees
19	MeSH descriptor: [Antineoplastic Protocols] explode all trees
20	MeSH descriptor: [Cancer Vaccines] this term only
21	MeSH descriptor: [Antibodies, Monoclonal] explode all trees
22	((anti canc* or anticanc* or anticarcinogen* or anti neoplas* or antineoplas* or cytotoxic*) near/3 (agent* or drug* or protocol* or regimen* or treatment* or therap*)):ti,ab,kw (Word variations have been searched)
23	(SACT or chemotherap* or immunotherap* or biological agent* or biological therap*):ti,ab,kw (Word variations have been searched)
24	{or #18-#23}
25	MeSH descriptor: [Radiosurgery] this term only
26	(Stereotactic* near/2 (irradiation* or RT or radiation* or radioablation* or radiosurg* or radiotherap* or therap* or treat*)):ti,ab,kw (Word variations have been searched)
27	(SBRT or SABRT or SABR or cyberknife or cyber knife):ti,ab,kw (Word variations have been searched)
28	{or #25-#27}
29	MeSH descriptor: [Ablation Techniques] explode all trees
30	MeSH descriptor: [Electroporation] this term only
31	((percutaneous* or radiofrequen* or radio-frequen* or RF or microwave*) near/3 ablat*):ti,ab,kw (Word variations have been searched)
32	electroporat*:ti,ab,kw (Word variations have been searched)
33	(RFA or MWA or IRE):ti,ab,kw (Word variations have been searched)
34	{or #29-#33}
35	#17 or #24 or #28 or #34
36	#11 and #35 Publication Year from 2000 to 2018

D4. Local and systemic treatments for metastatic colorectal cancer isolated in the peritoneum

Review question: What is the optimal combination and sequence of local and systemic treatments in patients presenting with metastatic colorectal cancer isolated in the peritoneum?

Databases: Embase/Medline

Last searched on: 21/05/2018

#	Search
1	(exp colorectal cancer/ or exp colon tumor/ or exp rectum tumor/) use emez
2	exp colorectal neoplasms/ use ppez
3	((colorect* or colo rect* or colon or colonic or rectal or rectum) adj3 (adenocarcinoma* or cancer* or carcinoma* or malignan* or neoplas* or oncolog* or tumo?r*)).tw.
4	or/1-3
5	Peritoneum metastasis/ use emez
6	peritoneal neoplasms/ use ppez
7	((peritoneum or peritoneal) adj3 (disseminat* or metasta* or migrat*)).tw.
8	((colorect* or colo rect* or colon or colonic or rectal or rectum) adj3 (peritoneum metasta* or peritoneal metasta* or peritoneal carcinom*)).tw.
9	or/5-7
10	4 and 9
11	10 or 8
12	cytoreductive surgery/ use emez or cytoreduction Surgical Procedures/ use ppez
13	surgery/ use emez or surgical procedures, operative/ use ppez or laparotomy/
14	(cytoreduc* or cyto-reduc* or CRS or debulk* or excis* or peritonectom* or operat* or resect* or surg*).tw.
15	or/12-14
16	exp antineoplastic agent/ use emez
17	exp antineoplastic agents/ use ppez
18	exp Antineoplastic Protocols/ use ppez
19	multimodality cancer therapy/ use emez
20	cancer therapy/ use emez
21	exp chemotherapy/ use emez
22	cancer combination chemotherapy/ use emez
23	Cancer Vaccines/ use ppez
24	cancer vaccine/ use emez
25	cancer immunotherapy/ use emez
26	exp antibodies, monoclonal/ use ppez or monoclonal antibody/ use emez
27	((anti canc* or anticanc* or anticancerogen* or anticarcinogen* or anti neoplas* or antineoplas* or anti tumo?r* or antitumo?r* or cytotoxic*) adj3 (agent* or drug* or protocol* or regimen* or treatment* or therap*)).tw.
28	(SACT or chemosaturat* or chemotherap* or immunotherap* or biological agent* or biological therap*).tw.
29	or/16-28
30	15 or 29
31	11 and 30
32	Letter/ use ppez
33	letter.pt. or letter/ use emez
34	note.pt.
35	editorial.pt.
36	Editorial/ use ppez
37	News/ use ppez
38	exp Historical Article/ use ppez

EARLY SUBMISSION

#	Search
39	Anecdotes as Topic/ use ppez
40	Comment/ use ppez
41	Case Report/ use ppez
42	case report/ or case study/ use emez
43	(letter or comment*).ti.
44	or/32-43
45	randomized controlled trial/ use ppez
46	randomized controlled trial/ use emez
47	random*.ti,ab.
48	or/45-47
49	44 not 48
50	animals/ not humans/ use ppez
51	animal/ not human/ use emez
52	nonhuman/ use emez
53	exp Animals, Laboratory/ use ppez
54	exp Animal Experimentation/ use ppez
55	exp Animal Experiment/ use emez
56	exp Experimental Animal/ use emez
57	exp Models, Animal/ use ppez
58	animal model/ use emez
59	exp Rodentia/ use ppez
60	exp Rodent/ use emez
61	(rat or rats or mouse or mice).ti.
62	or/49-61
63	31 not 62
64	limit 63 to (yr="1995 - current" and english language)
65	remove duplicates from 64

Database: Cochrane Library

Last searched on: 21/05/2018

#	Search
1	MeSH descriptor: [Colorectal Neoplasms] explode all trees
2	((colorect* or colo rect* or colon or colonic or rectal or rectum) near/3 (adenocarcinoma* or cancer* or carcinoma* or malignan* or neoplas* or oncolog* or tumo?r*)):ti,ab,kw (Word variations have been searched)
3	#1 or #2
4	MeSH descriptor: [Peritoneal Neoplasms] explode all trees
5	MeSH descriptor: [Peritoneum] explode all trees
6	MeSH descriptor: [Neoplasm Metastasis] explode all trees
7	#5 and #6
8	((peritoneum or peritoneal) near/3 (disseminat* or metasta* or migrat*)):ti,ab,kw
9	((colorect* or colo rect* or colon or colonic or rectal or rectum) near/3 (peritoneum metasta* or peritoneal metasta* or peritoneal carcinom*)):ti,ab,kw
10	#4 or #7 or #8
11	#3 and #10
12	#11 or #9
13	MeSH descriptor: [Cytoreduction Surgical Procedures] this term only
14	MeSH descriptor: [Surgical Procedures, Operative] explode all trees
15	MeSH descriptor: [Laparotomy] explode all trees
16	(cytoreduc* or cyto-reduc* or CRS or debulk* or excis* or peritonectom* or operat* or resect* or surg*):ti,ab,kw
17	MeSH descriptor: [Antineoplastic Agents] explode all trees

EARLY SUBMISSION

#	Search
18	MeSH descriptor: [Antineoplastic Protocols] explode all trees
19	MeSH descriptor: [Cancer Vaccines] this term only
20	MeSH descriptor: [Antibodies, Monoclonal] explode all trees
21	((anti canc* or anticanc* or anticarcinogen* or anti neoplas* or antineoplas* or cytotoxic*) near/3 (agent* or drug* or protocol* or regimen* or treatment* or therap*)):ti,ab,kw (Word variations have been searched)
22	(SACT or chemotherap* or immunotherap* or biological agent* or biological therap*):ti,ab,kw (Word variations have been searched)
23	{or #13-#22}
24	#12 and #23 Publication Year from 1995 to 2018

E. Ongoing care and support

E1. Follow-up to detect recurrence after treatment for non-metastatic colorectal cancer

Review question: What are the optimal methods and frequencies of follow-up to detect recurrence after potentially curative surgical treatment for non-metastatic colorectal cancer?

Databases: Embase/Medline

Last searched on: 12/02/2019

#	Search
1	(exp colorectal cancer/ or exp colon tumor/ or exp rectum tumor/) use emez
2	exp colorectal neoplasms/ use ppez
3	((colorect* or colo rect* or colon or colonic or rectal or rectum) adj3 (adenocarcinoma* or cancer* or carcinoma* or malignan* or neoplas* or oncolog* or tumo?r*)):tw.
4	or/1-3
5	exp recurrence/ use ppez
6	Neoplasm recurrence, local/ use ppez
7	Disease progression/ use ppez
8	Cancer recurrence/ use emez
9	Recurrent disease/ use emez
10	Tumor recurrence/ use emez
11	postoperative care/
12	(Recurr* or relaps* or reappear* or post-operat* or postoperat* or post-surg* or postsurg* or post-hosp* or posthosp*):tw.
13	or/5-12
14	4 and 13
15	exp aftercare/ use ppez
16	exp *aftercare/ use emez
17	(follow up or followup).ti.
18	((follow up or followup) adj3 (hospital* or post-hospital* or operat* or post-operat* or resection* or surg* or post-surg* or therap* or post-therap* or posttherp* or posttherap* or treatment* or post-treatment or posttreatment)):tw.
19	((follow up or followup) adj3 (plan* or program* or protocol* or regime* or schedule* or strateg*)):tw.
20	exp patient monitoring/ use emez
21	exp Monitoring, Physiologic/ use ppez
22	population surveillance/ use ppez
23	(surveill* adj3 (colonoscop* or guideline* or follow up or followup or plan* or post-operat* or postoperat* or post-treatment* or posttreatment* or practice* or program* or protocol* schedule* or strateg*)):tw.
24	(re-examin* or reexamin* or periodic examin* or regular examin* or checkup* or check-up*):tw.
25	or/15-24
26	14 and 25
27	Letter/ use ppez
28	letter.pt. or letter/ use emez
29	note.pt.
30	editorial.pt.
31	Editorial/ use ppez
32	News/ use ppez
33	exp Historical Article/ use ppez
34	Anecdotes as Topic/ use ppez

EARLY SUBMISSION

#	Search
35	Comment/ use ppez
36	Case Report/ use ppez
37	case report/ or case study/ use emez
38	(letter or comment*).ti.
39	or/27-38
40	randomized controlled trial/ use ppez
41	randomized controlled trial/ use emez
42	random*.ti,ab.
43	or/40-42
44	39 not 43
45	animals/ not humans/ use ppez
46	animal/ not human/ use emez
47	nonhuman/ use emez
48	exp Animals, Laboratory/ use ppez
49	exp Animal Experimentation/ use ppez
50	exp Animal Experiment/ use emez
51	exp Experimental Animal/ use emez
52	exp Models, Animal/ use ppez
53	animal model/ use emez
54	exp Rodentia/ use ppez
55	exp Rodent/ use emez
56	(rat or rats or mouse or mice).ti.
57	or/44-56
58	26 not 57
59	limit 58 to (english language and yr="2000-current")
60	remove duplicates from 59

Database: Cochrane Library

Last searched on: 12/02/2019

#	Search
1	MeSH descriptor: [Colorectal Neoplasms] explode all trees
2	((colorect* or colo rect* or colon or colonic or rectal or rectum) near/3 (adenocarcinoma* or cancer* or carcinoma* or malignan* or neoplas* or oncolog* or tumo?r*)):ti,ab,kw
3	#1 or #2
4	MeSH descriptor: [Recurrence] explode all trees
5	MeSH descriptor: [Neoplasm Recurrence, Local] this term only
6	MeSH descriptor: [Disease Progression] this term only
7	MeSH descriptor: [Postoperative Care] this term only
8	(Recurr* or relaps* or reappear* or post-operat* or postoperat* or post-surg* or postsurg* or post-hosp* or posthosp*):ti,ab,kw
9	{or #4-#8}
10	#3 and #9
11	MeSH descriptor: [Aftercare] explode all trees
12	(follow up or followup):ti
13	((follow up or followup) near/3 (hospital* or post-hospital* or operat* or post-operat* or resection* or surg* or post-surg* or therap* or post-therap* or posttherp* or posttherap* or treatment* or post-treatment or posttreatment)):ti,ab,kw
14	((follow up or followup) near/3 (plan* or program* or protocol* or regime* or schedule* or strateg*)):ti,ab,kw
15	MeSH descriptor: [Monitoring, Physiologic] explode all trees
16	MeSH descriptor: [Population Surveillance] this term only
17	(surveill* near/3 (colonoscop* or guideline* or follow up or followup or plan* or post-operat* or postoperat* or post-treatment* or posttreatment* or practice* or program* or protocol* schedule* or strateg*)):ti,ab,kw
18	(re-examin* or reexamin* or periodic examin* or regular examin* or checkup* or check-up*):ti,ab,kw
19	{or #11-#18}
20	#10 and #19 Publication Year from 2000 to 2018

E2. Optimal management of low anterior resection syndrome

Review question: What is the optimal management of low anterior resection syndrome?

EARLY SUBMISSION

Databases: Embase/Medline

Last searched on: 12/02/2019

#	Search
1	exp Rectal Neoplasms/ use pmz
2	*rectum cancer/ or *rectum tumor/
3	2 use oomezd
4	((rectal or rectum) adj3 (cancer* or neoplas* or malignan* or tumo?r* or carcinom* or adeno*)).ti,ab.
5	1 or 3 or 4
6	exp Postoperative Complications/ or exp Anastomosis, Surgical/ or exp Rectum/su [Surgery]
7	6 use pmz
8	exp postoperative complication/ or exp anastomosis/ or rectum anastomosis/ or rectum surgery/ or rectum anterior resection/ or rectum resection/
9	8 use oomezd
10	(low anterior resection syndrome or LARS or postoperative complication* or anastomosis).ti,ab.
11	7 or 9 or 10
12	5 and 11
13	exp Anal Canal/ or exp Fecal Incontinence/ or exp Constipation/ or exp "Quality of Life"/ or exp Defecation/ or exp "Recovery of Function"/ or exp Diarrhea/ or exp Anastomotic Leak/ or exp Intestinal Obstruction/ or exp Electric Stimulation Therapy/ or exp Diet/ or exp Biofeedback, Psychology/ or exp Physical Therapy Modalities/ or exp Therapeutic Irrigation/ or exp Surgical Stomas/ or exp Drug Therapy/ or exp Loperamide/ or exp Laxatives/ or exp Antidiarrheals/ or exp Dietary Fiber/ or exp Flatulence/
14	13 use pmz
15	exp feces incontinence/ or exp constipation/ or exp "quality of life"/ or exp defecation/ or exp convalescence/ or exp diarrhea/ or exp anastomosis leakage/ or exp intestine obstruction/ or exp electrotherapy/ or exp diet/ or exp biofeedback/ or exp physiotherapy/ or exp lavage/ or exp stoma/ or exp intestine function disorder/ or exp drug therapy/ or exp loperamide/ or exp laxative/ or exp antidiarrheal agent/ or exp dietary fiber/ or exp flatulence/ or exp anus sphincter/ or exp bulking agent/ or exp electrostimulation/ or exp sacral nerve stimulation/ or exp sexual function/ or exp urinary dysfunction/
16	15 use oomezd
17	(score* or scale* or (bowel adj (dysfunction* or function* or movement*)) or (functional adj (outcome* or result*)) or manag* or cope or leak* or anal canal or anal sphincter or diarrh?ea* or laxative* or bulking agent* or anti-spasmodic agent* or physiotherap* or biofeedback* or diet* or food* or meal* or drink* or fluid* or sacral nerve stimulation* or continen* or incontinen* or irrigat* or wash?out or lavage* or abdominal pain* or stoma* or stool* or cluster* or fecal or constipat* or gas or imodium or metamucil or fiber or survival pack* or urinary function* or sexual function* or counsel* or nerve damage or exercis* or muscle strength* or recover* or "quality of life").ti,ab.
18	14 or 16 or 17
19	12 and 18
20	limit 19 to english language
21	limit 20 to yr="2008 -Current"
22	from 21 keep 1-5000
23	from 21 keep 5001-8274
24	remove duplicates from 22
25	remove duplicates from 23
26	24 or 25
27	(conference abstract or letter).pt. or letter/ or editorial.pt. or note.pt. or case report/ or case study/ use oomezd
28	Letter/ or editorial/ or news/ or historical article/ or anecdotes as topic/ or comment/ or case report/ use pmz
29	(letter or comment* or abstracts).ti.
30	or/27-29
31	randomized controlled trial/ use pmz
32	randomized controlled trial/ use oomezd
33	random*.ti,ab.
34	or/31-33
35	30 not 34
36	(animals/ not humans/) or exp animals, laboratory/ or exp animal experimentation/ or exp models, animal/ or exp rodentia/ use pmz
37	(animal/ not human/) or nonhuman/ or exp animal experiment/ or exp experimental animal/ or animal model/ or exp rodent/ use oomezd
38	(rat or rats or mouse or mice).ti.
39	35 or 36 or 37 or 38
40	26 not 39
41	clinical Trials as topic.sh. or (controlled clinical trial or pragmatic clinical trial or randomized controlled trial).pt. or (placebo or randomi#ed or randomly).ab. or trial.ti.
42	41 use pmz
43	crossover procedure/ or double blind procedure/ or randomized controlled trial/ or single blind procedure/ or (assign* or allocat* or crossover* or cross over* or ((doubl* or singl*) adj blind*) or factorial* or placebo* or random* or volunteer*).ti,ab.
44	43 use oomezd

EARLY SUBMISSION

#	Search
45	or/42,44
46	epidemiologic studies/ or observational study/ or case control studies/ or retrospective studies/ or cohort studies/ or longitudinal studies/ or follow-up studies/ or prospective studies/ or cross-sectional studies/
47	46 use prmz
48	exp observational study/ or exp case control study/ or exp retrospective study/ or exp cohort analysis/ or exp longitudinal study/ or exp follow up/ or exp prospective study/ or exp cross-sectional study/
49	48 use oomezd
50	((retrospective* or cohort* or longitudinal or follow?up or prospective or cross section*) adj3 (stud* or research or analys*)).ti.
51	47 or 49 or 50
52	45 or 51

Database: Cochrane Library

Last searched on: 12/02/2019

#	Search
1	MeSH descriptor: [Rectal Neoplasms] explode all trees
2	(rectal or rectum) near (cancer* or neoplas* or malignan* or tumo?r* or carcinom* or adeno*)
3	#1 or #2
4	MeSH descriptor: [Postoperative Complications] explode all trees
5	low anterior resection syndrome or LARS or postoperative complication* or anastomosis
6	#4 or #5
7	#3 and #6
8	MeSH descriptor: [Anal Canal] explode all trees
9	MeSH descriptor: [Fecal Incontinence] explode all trees
10	MeSH descriptor: [Constipation] explode all trees
11	MeSH descriptor: [Quality of Life] explode all trees
12	MeSH descriptor: [Defecation] explode all trees
13	MeSH descriptor: [Recovery of Function] explode all trees
14	MeSH descriptor: [Diarrhea] explode all trees
15	MeSH descriptor: [Anastomotic Leak] explode all trees
16	MeSH descriptor: [Intestinal Obstruction] explode all trees
17	MeSH descriptor: [Electric Stimulation Therapy] explode all trees
18	MeSH descriptor: [Diet] explode all trees
19	MeSH descriptor: [Biofeedback, Psychology] explode all trees
20	MeSH descriptor: [Physical Therapy Modalities] explode all trees
21	MeSH descriptor: [Therapeutic Irrigation] explode all trees
22	MeSH descriptor: [Surgical Stomas] explode all trees
23	MeSH descriptor: [Drug Therapy] explode all trees
24	MeSH descriptor: [Loperamide] explode all trees
25	MeSH descriptor: [Laxatives] explode all trees
26	MeSH descriptor: [Antidiarrheals] explode all trees
27	MeSH descriptor: [Dietary Fiber] explode all trees
28	MeSH descriptor: [Flatulence] explode all trees
29	score* or scale* or (bowel near (dysfunction* or function* or movement*)) or (functional near (outcome* or result*)) or manag* or cope or leak* or anal canal or anal sphincter or diarrh?ea* or laxative* or bulking agent* or anti-spasmodic agent* or physiotherap* or biofeedback* or diet* or food* or meal* or drink* or fluid* or sacral nerve stimulation* or continen* or incontinen* or irrigat* or wash?out or lavage* or abdominal pain* or stoma* or stool* or cluster* or fecal or constipat* or gas or imodium or metamucil or fiber or survival pack* or urinary function* or sexual function* or counsel* or nerve damage or exercis* or muscle strength* or recover* or "quality of life"
30	#8 or #9 or #10 or #11 or #12 or #13 or #14 or #15 or #16 or #17 or #18 or #19 or #20 or #21 or #22 or #23 or #24 or #25 or #26 or #27 or #28 or #29
31	#7 and #30 Publication Year from 2008 to 2018

E3. Information needs of people prior, during and after treatment for colorectal cancer

Review question: What are the information needs of people prior, during and after treatment for colorectal cancer?

Databases: Embase/Medline/PsycINFO

Last searched on: 14/02/2018

EARLY SUBMISSION

#	Search
1	exp colorectal cancer/ or exp colon tumor/ or exp rectum tumor/
2	1 use oemezd
3	exp Colorectal Neoplasms/ or exp Colonic Neoplasms/ or exp Rectal Neoplasms/
4	3 use prmz
5	((colorect* or colo rect*) adj3 (cancer* or neoplas* or oncolog* or malignan* or tumor?* or carcinoma* or adenocarcinoma*)).ti,ab.
6	((colon or colonic) adj3 (cancer* or neoplas* or oncolog* or malignan* or tumor?* or carcinoma* or adenocarcinoma*)).ti,ab.
7	((rectal* or rectum*) adj3 (cancer* or neoplas* or oncolog* or malignan* or tumor?* or carcinoma* or adenocarcinoma*)).ti,ab.
8	or/2,4-7
9	exp health information management/mt, og, st or exp information services/mt, og, st or exp Focus Groups/ or exp Social Support/ or exp comprehension/ or exp Consumer Advocacy/ or Pamphlets/ or exp Audiovisual Aids/ or exp Internet/ or communication/ or exp patient education as topic/ or exp Self-Help Groups/ or exp Choice Behavior/ or exp Decision Making/ or exp Clinical Decision-Making/ or exp decision support techniques/ or exp Patient Participation/ or exp "Referral and Consultation"/ or exp "Surveys and Questionnaires"/ or exp Patient Satisfaction/ or exp Patient Preference/ or exp Preoperative Care/mt [Methods]
10	9 use prmz
11	exp publication/ or exp information processing/ or exp social support/ or exp comprehension/ or exp consumer advocacy/ or exp audiovisual aid/ or exp Internet/ or exp interpersonal communication/ or exp patient education/ or exp self help/ or exp decision making/ or exp clinical decision making/ or exp decision support system/ or exp nurse patient relationship/ or exp patient participation/ or exp patient care planning/ or exp patient referral/ or exp questionnaire/ or exp health care survey/ or exp patient satisfaction/ or exp patient preference/ or exp patient attitude/ or exp preoperative care/ or exp information service/ or exp information seeking/ or exp medical information/ or exp visual information/ or exp patient information/ or exp information dissemination/ or exp consumer health information/ or exp access to information/ or exp information/ or exp information center/
12	11 use oemezd
13	exp health information management/ or exp Social Support/ or exp comprehension/ or exp Consumer Behavior/ or exp Consumer Attitudes/ or exp Advocacy/ or exp Consumer Satisfaction/ or exp information services/ or exp Health Education/ or exp Health Care Utilization/ or exp Help Seeking Behavior/ or exp Health Care Seeking Behavior/ or exp Client Education/ or exp Health Promotion/ or exp Reading Materials/ or exp Health Care Services/ or exp Educational Audiovisual Aids/ or exp Films/ or exp internet/ or exp written communication/ or exp verbal communication/ or exp interpersonal communication/ or exp communication/ or exp Support Groups/ or exp Self-Help Techniques/ or exp Choice Behavior/ or exp Clinical Practice/ or exp Decision Support Systems/ or exp Decision Making/ or exp Client Participation/ or exp Professional Referral/ or exp Professional Consultation/ or exp Questionnaires/ or exp Surveys/ or exp Client Satisfaction/ or exp Treatment Compliance/ or exp Client Attitudes/ or exp Preferences/
14	13 use psyh
15	(pamphlet* or leaflet* or diary or diaries or focus group* or booklet* or guidebook* or guidance or sheet* or prompt* or coach* or check?list* or written or write* or question* or survey* or card* or helpcard* or video* or tape* or cd* or film* or dvd* or telephone* or phone* or computer* or internet or electronic or communicat* or consult* or information material* or information deliver* or interactive session* or time* or timing* or post?consultation* or pre?treatment* or (face* adj1 face*)).ti,ab.
16	((patient* or consumer* or care* or personal or interpersonal or individual) adj (educat* or skill* or teach* or train* or coach* or information or pathway* or decision* or choice* or prefer* or participat* or value* or involve*)).ti,ab.
17	((inform* or support* or decision*) adj (need* or web*1 or electronic* or print* or tool* or method* or group* or meet* or aid* or support*)).ti,ab.
18	or/10,12,14-17
19	exp body image/ or exp self concept/ or exp anxiety/ or exp depression/ or exp postoperative complications/pc or exp stents/ae or exp constipation/pc or exp diarrhea/pc or exp fecal incontinence/pc or exp urinary incontinence/pc or exp "diet, food, and nutrition"/ or exp peripheral nervous system diseases/pc or exp pregnancy/ph or exp fertility/ph or exp sexual dysfunction, physiological/ or exp sexual dysfunctions, psychological/ or exp life style/ or exp employment/ or exp exercise/ or exp "quality of life"/
20	19 use prmz
21	exp body image/ or exp self concept/ or exp postoperative complication/ or exp stent/am or exp constipation/pc, rh or exp diarrhea/pc, rh or exp feces incontinence/pc, rh or exp urine incontinence/pc, rh or exp diet/ or exp food/ or exp nutrition education/ or exp nutrition/ or exp neuropathy/ or exp pregnancy/ or exp fertility/ or exp sexual dysfunction/ or exp lifestyle/ or exp employment/ or exp exercise/ or exp "quality of life"/
22	21 use oemezd
23	exp body image/ or exp self-concept/ or exp postsurgical complications/ or exp "side effects (treatment)"/ or exp anxiety/ or exp "depression (emotion)"/ or exp medical therapeutic devices/ or exp constipation/ or exp diarrhea/ or exp urinary incontinence/ or exp fecal incontinence/ or exp diets/ or exp food/ or exp nutrition/ or exp neuropathy/ or exp pregnancy/ or exp fertility/ or exp female sexual dysfunction/ or exp sexual function disturbances/ or exp erectile dysfunction/ or exp sexuality/ or exp lifestyle/ or exp employment status/ or exp exercise/ or exp Physical Activity/ or exp "quality of life"/
24	23 use psyh
25	(bowel function or stoma care or stress* or distress* or body image or sexual function* or self?esteem* or diarr?hea* or bloat* or wind or gas or flatulence or complicat* or neuropath* or incontinen* or pregnan* or fertility or life style or employ* or exercise* or sport* or social).ti,ab.
26	((nutrition* adj advi?e*) or (diet* adj advi?e*)).ti,ab.

EARLY SUBMISSION

#	Search
27	(stoma* adj (reversal* or removal*)).ti,ab.
28	(stent* adj insert*).ti,ab.
29	temporar* ileostomy*.ti,ab.
30	or/20,22,24-29
31	8 and 18 and 30
32	(conference abstract or letter).pt. or letter/ or editorial.pt. or note.pt. or case report/ or case study/ use oomezd
33	Letter/ or editorial/ or news/ or historical article/ or anecdotes as topic/ or comment/ or case report/ use prmz
34	(letter or comment* or abstracts).ti.
35	or/32-34
36	randomized controlled trial/ use prmz
37	randomized controlled trial/ use oomezd
38	random*.ti,ab.
39	or/36-38
40	35 not 39
41	(animals/ not humans/) or exp animals, laboratory/ or exp animal experimentation/ or exp models, animal/ or exp rodentia/ use prmz
42	(animal/ not human/) or nonhuman/ or exp animal experiment/ or exp experimental animal/ or animal model/ or exp rodent/ use oomezd
43	exp animals/ or exp Animal Models/ or exp Rodents/ or exp Mice/ or exp RATS/
44	43 use psych
45	(rat or rats or mouse or mice).ti.
46	40 or 41 or 42 or 44 or 45
47	31 not 46
48	(interview* or experience*).mp.
49	48 use prmz
50	exp HEALTH CARE ORGANIZATION/ use oomezd
51	(interview* or experience* or qualitative*).tw.
52	49 or 50 or 51
53	47 and 52
54	limit 53 to english language
55	limit 54 to yr="2008 -Current"

Database: Cochrane Library

Last searched on: 14/02/2018

#	Search
1	MeSH descriptor: [Colorectal Neoplasms] explode all trees
2	MeSH descriptor: [Health Information Management] explode all trees
3	MeSH descriptor: [Information Services] explode all trees
4	MeSH descriptor: [Focus Groups] explode all trees
5	MeSH descriptor: [Social Support] explode all trees
6	MeSH descriptor: [Comprehension] explode all trees
7	MeSH descriptor: [Consumer Advocacy] explode all trees
8	MeSH descriptor: [Pamphlets] explode all trees
9	MeSH descriptor: [Audiovisual Aids] explode all trees
10	MeSH descriptor: [Internet] explode all trees
11	MeSH descriptor: [Communication] explode all trees
12	MeSH descriptor: [Patient Education as Topic] explode all trees
13	MeSH descriptor: [Self-Help Groups] explode all trees
14	MeSH descriptor: [Choice Behavior] explode all trees
15	MeSH descriptor: [Decision Making] explode all trees
16	MeSH descriptor: [Clinical Decision-Making] explode all trees
17	MeSH descriptor: [Decision Support Techniques] explode all trees
18	MeSH descriptor: [Patient Participation] explode all trees
19	MeSH descriptor: [Referral and Consultation] explode all trees
20	MeSH descriptor: [Surveys and Questionnaires] explode all trees
21	MeSH descriptor: [Patient Satisfaction] explode all trees
22	MeSH descriptor: [Patient Preference] explode all trees
23	MeSH descriptor: [Preoperative Care] explode all trees and with qualifier(s): [Methods - MT]
24	pamphlet* or leaflet* or diary or diaries or focus group* or booklet* or guidebook* or guidance or sheet* or prompt* or coach* or check?list* or written or write* or question* or survey* or card* or helpcard* or video* or tape* or cd* or film* or dvd* or telephone* or phone* or computer* or internet or electronic or communicat* or consult* or information material* or information deliver* or interactive session* or time* or timing* or post?consultation* or pre?treatment* or inform* or support* or decision* or pathway* or choice* or prefer* or participat* or value* or involve*

EARLY SUBMISSION

#	Search
25	bowel function* or stoma or stent* or body image or sexual function* or self?esteem* or diarr?hea* or bloat* or wind or gas or flatulence or complicat* or neuropath* or incontinen* or pregnan* or fertility or life style or employ* or exercise* or sport* or social or sexualit* or diet* or food or nutrition*
26	#2 or #3 or #4 or #5 or #6 or #7 or #8 or #9 or #10 or #11 or #12 or #13 or #14 or #15 or #16 or #17 or #18 or #19 or #20 or #21 or #22 or #23 or #24 or #25
27	#1 and #26 Publication Year from 2008 to 2018

Database: CINAHL

Last searched on: 19/02/2018

#	Search
S4	S1 AND S2 Limiters – Publication Year: 2008-2018 Narrow by Language0: -english
S3	S1 AND S2
S2	colorectal cancer patients
S1	health information management OR information services OR Social Support OR patient education OR Self-Help Groups OR Choice Behavior OR Decision Making OR decision support techniques OR Patient Participation OR Patient Satisfaction OR Patient Preference or Internet

Database: Web of Science

Last searched on: 19/02/2018

#	Search
6	(#5) AND LANGUAGE: (English)
5	#4 AND #3
4	ts=interview* or ts=experience* or ts=qualitative stud*
3	#2 AND #1
2	ts=health information management OR ts=information services OR ts=Social Support OR ts=patient education OR ts=Self-Help Group* OR ts=Choice Behavior OR ts=Decision Making OR ts=decision support techniques OR ts=Patient Participation OR ts=Patient Satisfaction OR ts=Patient Preference* or ts=Internet or ts=Focus Group* or ts=Comprehension or ts=Consumer Advocacy or ts=Pamphlet* or ts=Audiovisual aid* or ts=Communication or ts=Survey* or ts=Questionnaire* or ts=unmet need* or ts=distress* or ts=psychological stress* or ts="quality of life"
1	ts=colorectal cancer or ts=colon* cancer or ts=rectal cancer

F. Service delivery

F1. Surgical volumes and outcomes for rectal cancer

Review question: Is there a relationship between surgical volumes and outcomes in the treatment of rectal cancer (primary and recurrent disease)?

Databases: Embase/Medline

Last searched on: 12/02/2019

#	Search
1	exp rectum tumor/ use emez
2	exp rectal neoplasms/ use ppez
3	((rectal or rectum) adj3 (adenocarcinoma* or cancer* or carcinoma* or malignan* or neoplas* or oncolog* or tumo?r*)).tw.
4	or/1-3
5	exp surgical procedures, operative/ use ppez or surgery/ use emez
6	(excis* or resect* or surg*).tw.
7	or/5-6
8	4 and 7
9	hospital volume/ use emez

EARLY SUBMISSION

#	Search
10	surgeon volume/ use emez
11	hospitals/
12	workload/
13	caseload/ use emez
14	high volume hospital/ use emez
15	low volume hospital/ use emez
16	Hospitals, high-volume/ use ppez
17	hospitals, Low-volume/ use ppez
18	((low* or high* or medium or mid) adj3 volume?).tw.
19	(caseload? or case load? or service load? or workload? or work load?).tw.
20	((case or center or center level or centre level or doctor? or hospital? or individual? or medical practitioner or operator? or personal or physician? or private or provider? or procedural or service? or surgeon? or surger* or surgical) adj2 volume?).tw.
21	(volume? adj2 (standard? or outcome?)).tw.
22	or/9-21
23	8 and 22
24	Letter/ use ppez
25	letter.pt. or letter/ use emez
26	note.pt.
27	editorial.pt.
28	Editorial/ use ppez
29	News/ use ppez
30	exp Historical Article/ use ppez
31	Anecdotes as Topic/ use ppez
32	Comment/ use ppez
33	Case Report/ use ppez
34	case report/ or case study/ use emez
35	(letter or comment*).ti.
36	or/24-35
37	randomized controlled trial/ use ppez
38	randomized controlled trial/ use emez
39	random*.ti,ab.
40	or/37-39
41	36 not 40
42	animals/ not humans/ use ppez
43	animal/ not human/ use emez
44	nonhuman/ use emez
45	exp Animals, Laboratory/ use ppez
46	exp Animal Experimentation/ use ppez
47	exp Animal Experiment/ use emez
48	exp Experimental Animal/ use emez
49	exp Models, Animal/ use ppez
50	animal model/ use emez
51	exp Rodentia/ use ppez
52	exp Rodent/ use emez
53	(rat or rats or mouse or mice).ti.
54	or/41-53
55	23 not 54
56	limit 55 to (yr="2000 - current" and english language)
57	remove duplicates from 56

EARLY SUBMISSION

Database: Cochrane Library

Last searched on: 12/02/2019

#	Search
1	MeSH descriptor: [Rectal Neoplasms] explode all trees
2	((rectal or rectum) near/3 (adenocarcinoma* or cancer* or carcinoma* or malignan* or neoplas* or oncolog* or tumo?*r*)):ti,ab,kw
3	#1 or #2
4	MeSH descriptor: [Surgical Procedures, Operative] explode all trees
5	(excis* or resect* or surg*):ti,ab,kw
6	#4 or #5
7	#3 and #6
8	MeSH descriptor: [Hospitals] this term only
9	MeSH descriptor: [Workload] explode all trees
10	MeSH descriptor: [Hospitals, High-Volume] this term only
11	MeSH descriptor: [Hospitals, Low-Volume] this term only
12	((low* or high* or medium or mid) near/3 volume?):ti,ab,kw
13	(caseload? or case load? or service load? or workload? or work load?):ti,ab,kw
14	((case or center or center level or centre level or doctor? or hospital? or individual? or medical practitioner or operator? or personal or physician? or private or provider? or procedural or service? or surgeon? or surger* or surgical) near/2 volume?):ti,ab,kw
15	(volume? near/2 (standard? or outcome?)):ti,ab,kw
16	{or #8-#15}
17	#7 and #16 Publication Year from 2000 to 2018

Economic literature search strategies

One global search was conducted for economic evidence.

Database: Embase

Last searched on: 13/05/2019

#	Search
1	exp colorectal tumor/ or colorectal cancer/ or colon carcinoma/ or colon tumor/ or colon cancer/
2	rectum cancer/ or rectum tumor/ or rectum carcinoma/
3	((colorect* or colo rect*) adj3 (cancer* or neoplas* or oncolog* or malignan* or tumo?* or carcinoma* or adenocarcinoma*)).tw
4	((colon or colonic) adj3 (cancer* or neoplas* or oncolog* or malignan* or tumo?* or carcinoma* or adenocarcinoma*)).tw.
5	((rectal* or rectum*) adj3 (cancer* or neoplas* or oncolog* or malignan* or tumo?* or carcinoma* or adenocarcinoma*)).tw.
6	bowel cancer.ti,ab.
7	or/1-6
8	health economics/
9	exp economic evaluation/
10	exp health care cost/
11	exp fee/
12	budget/
13	funding/
14	budget*.ti,ab.
15	cost*.ti.
16	(economic* or pharmaco?economic*).ti.
17	(price* or pricing*).ti,ab.
18	(cost* adj2 (effective* or utilit* or benefit* or minimi* or unit* or estimat* or variable*)).ab.
19	(financ* or fee or fees).ti,ab.
20	(value adj2 (money or monetary)).ti,ab.
21	8 or 9 or 10 or 11 or 12 or 13 or 14 or 15 or 16 or 17 or 18 or 19 or 20
22	7 and 21
23	limit 22 to (english language and yr="2010 - 2017")

Database: Medline

Last searched on: 13/05/2019

#	Search
1	exp Colorectal Neoplasms/
2	exp Rectal Neoplasms/
3	((colorect* or colo rect*) adj3 (cancer* or neoplas* or oncolog* or malignan* or tumo?* or carcinoma* or adenocarcinoma*)).tw.
4	((colon or colonic) adj3 (cancer* or neoplas* or oncolog* or malignan* or tumo?* or carcinoma* or adenocarcinoma*)).tw.
5	((rectal* or rectum*) adj3 (cancer* or neoplas* or oncolog* or malignan* or tumo?* or carcinoma* or adenocarcinoma*)).tw
6	bowel cancer.ti,ab.
7	or/1-6
8	exp Economics/
9	Value of life/
10	exp "Costs and Cost Analysis"/
11	exp Economics, Hospital/

EARLY SUBMISSION

#	Search
12	exp Economics, Medical/
13	Economics, Nursing/
14	Economics, Pharmaceutical/
15	exp "Fees and Charges"/
16	exp Budgets/
17	budget*.ti,ab.
18	cost*.ti.
19	(economic* or pharmaco?economic*).ti.
20	(price* or pricing*).ti,ab.
21	(cost* adj2 (effective* or utilit* or benefit* or minimi* or unit* or estimat* or variable*)).ab.
22	(financ* or fee or fees).ti,ab
23	(value adj2 (money or monetary)).ti,ab.
24	8 or 9 or 10 or 11 or 12 or 13 or 14 or 15 or 16 or 17 or 18 or 19 or 20 or 21 or 22 or 23
25	7 and 24
26	limit 25 to (english language and yr="2010 -Current")