

## Appendices

### Appendix D: Literature search strategies

#### Contents

<b>Introduction</b>	<b>Search methodology</b>
<b>Section D.1</b>	<b>Population search strategy</b>
D.1.1	Standard population search strategy This population was used for all search questions unless stated otherwise.
D.1.2	Paediatrics filter
<b>Section D.2</b>	<b>Study design filter terms</b>
D.2.1	Systematic reviews (SR)
D.2.2	Randomized controlled trials (RCT)
D.2.3	Economic studies
D.2.4	Quality of life studies
D.2.5	Excluded study designs and publication types
<b>Section D.3</b>	<b>Searches for specific questions with intervention</b>
D.3.1	Induction and maintenance of remission
D.3.2	Risk factors for poor bone health in children
D.3.3	Growth and development in children and young people
D.3.4	Information for patients relating to the outcomes of elective surgery
D.3.5	Induction and maintenance of remission in pregnant women
D.3.6	Tools for predicting likelihood of surgery in people with acute severe ulcerative colitis
<b>Section D.4</b>	<b>Economic searches</b>
D.4.1	Economic reviews
D.4.2	Quality of life reviews
<b>Section D.5</b>	<b>References</b>

#### Introduction

Search strategies used for the ulcerative colitis guideline are outlined below and were run in accordance with the methodology in the NICE Guidelines Manual 2009.<sup>1</sup>

All searches were run up to 15<sup>th</sup> November 2012 unless otherwise stated. Any studies added to the databases after this date were not included unless specifically stated in the text. Searches were run for the dates shown in table 1 below. Where possible searches were limited to retrieve material published in English.

**Table 1: Database date parameters**

Database	Dates searched
Medline	1946 – 15 <sup>th</sup> November 2012
Embase	1980 – 15 <sup>th</sup> November 2012

Database	Dates searched
The Cochrane Library	Cochrane Reviews to 2012 Issue 11 CENTRAL to 2012 Issue 11 DARE to 2012 Issue 4 HTA and NHSEED to 2012 Issue 4 Methods Studies to 2012 Issue 4

## Clinical searches

Searches for the **clinical reviews** were run in Medline (OVID), Embase (OVID), and the Cochrane Library (Wiley). Usually, searches were constructed in the following way:

- A PICO format was used for **intervention** searches where population (P) terms were combined with Intervention (I) and sometimes Comparison (C) terms. An intervention can be a drug, a procedure or a diagnostic test. Outcomes (O) are rarely used in search strategies for interventions. Search filters were also added to the search where appropriate.
- A PEO format was used for **prognosis** searches where population (P) terms were combined with exposure (E) terms and sometimes outcomes (O). Search filters were added to the search where appropriate.

## Economic searches

Searches for the **health economic reviews** were run in Medline (OVID), Embase (OVID), the NHS Economic Evaluations Database (NHS EED), the Health Technology Assessment (HTA) database and the Health Economic Evaluation Database (HEED). HTA and NHSEED searches were carried out via the Centre for Reviews and Dissemination (CRD) interface. The HEED database was accessed via the Wiley interface. Searches in these three databases were constructed using population terms only. For Medline and Embase a health economic filter (instead of a study type filter) was added to the standard population search strategy.

## D.1 Population search strategies

### D.1.1 Standard population search strategy

This population was used for all except one question (D.3.6: Which validated tools are the most predictive of the likelihood of surgery in people with acute severe ulcerative colitis?)

#### Medline search terms

1.	colitis, ulcerative/
2.	exp proctitis/
3.	exp inflammatory bowel diseases/
4.	(inflamm* adj2 (colon* or bowel)).ti,ab.
5.	(ulcer* adj2 colitis).ti,ab.
6.	(pancolitis or rectitis or proctocolitis or procto-colitis or coloproctitis or rectocolitis or rectocolitis or recto-sigmoiditis or rectosigmoiditis or procto-sigmoiditis or proctosigmoiditis or proctitis).ti,ab.
7.	((total or sub-total or subtotal or extensive or left-sided or universal) adj colitis).ti,ab.
8.	or/1-7

#### Embase search terms

1.	ulcerative colitis/
----	---------------------

2.	proctocolitis/
3.	proctitis/
4.	(inflamm* adj2 (colon* or bowel)).ti,ab.
5.	(ulcer* adj colitis).ti,ab.
6.	(pancolitis or rectitis or proctocolitis or procto-colitis or coloproctitis or rectocolitis or recto-colitis or recto-sigmoiditis or rectosigmoiditis or procto-sigmoiditis or proctosigmoiditis or proctitis).ti,ab.
7.	((total or sub-total or subtotal or extensive or left-sided or universal) adj colitis).ti,ab.
8.	or/1-7

#### Cochrane search terms

#1.	MeSH descriptor Inflammatory Bowel Diseases explode all trees
#2.	MeSH descriptor Proctitis explode all trees
#3.	MeSH descriptor Colitis, Ulcerative explode all trees
#4.	(ulcer* near/2 colitis):ti,ab,kw
#5.	(inflamm* near/2 (colon* or bowel)):ti,ab,kw
#6.	(pancolitis or rectitis or proctocolitis or procto-colitis or coloproctitis or rectocolitis or recto-colitis or recto-sigmoiditis or rectosigmoiditis or procto-sigmoiditis or proctosigmoiditis or proctitis):ti,ab,kw
#7.	((total or sub-total or subtotal or extensive or left-sided or universal) near colitis):ti,ab,kw
#8.	(#1 or #2 or #3 or #4 or #5 or #6 or #7)

#### D.1.2 Paediatrics filter

The following terms were used to limit retrieval by age group for questions relating to children and young people only.

#### Medline search terms

#1.	exp child/
#2.	child*.tw.
#3.	exp infant/
#4.	infan*.tw.
#5.	(baby or babies).tw.
#6.	"adolescent"/
#7.	(pediatric*1 or paediatric*1).tw.
#8.	or/1-7

#### Embase search terms

#1.	exp child/
#2.	child*.tw.
#3.	childhood/
#4.	infancy/
#5.	infan*.tw.
#6.	(baby or babies).tw.
#7.	exp adolescent/
#8.	(pediatric*1 or paediatric*1).tw.

#9.	or/1-8
-----	--------

### Cochrane search terms

#1.	child*:ti,ab,kw
#2.	infan*:ti,ab,kw
#3.	(baby or babies):ti,ab,kw
#4.	adolescen*:ti,ab,kw
#5.	(pediatric? or paediatric?):ti,ab,kw
#6.	(#1 or #2 or #3 or #4 or #5)

## D.2 Study filter search terms

### D.2.1 Systematic review (SR) search terms

#### Medline search terms

1.	meta-analysis/
2.	meta-analysis as topic/
3.	(meta analy* or metanaly* or metaanaly*).ti,ab.
4.	((systematic* or evidence*) adj2 (review* or overview*)).ti,ab.
5.	(reference list* or bibliograph* or hand search* or manual search* or relevant journals).ab.
6.	(search strategy or search criteria or systematic search or study selection or data extraction).ab.
7.	(search* adj4 literature).ab.
8.	(medline or pubmed or cochrane or embase or psychlit or psyclit or psychinfo or psycinfo or cinahl or science citation index or bids or cancerlit).ab.
9.	cochrane.jw.
10.	or/1-9

#### Embase search terms

1.	systematic review/
2.	meta-analysis/
3.	(meta analy* or metanaly* or metaanaly*).ti,ab.
4.	((systematic or evidence) adj2 (review* or overview*)).ti,ab.
5.	(reference list* or bibliograph* or hand search* or manual search* or relevant journals).ab.
6.	(search strategy or search criteria or systematic search or study selection or data extraction).ab.
7.	(search* adj4 literature).ab.
8.	(medline or pubmed or cochrane or embase or psychlit or psyclit or psychinfo or psycinfo or cinahl or science citation index or bids or cancerlit).ab.
9.	((pool* or combined) adj2 (data or trials or studies or results)).ab.
10.	cochrane.jw.
11.	or/1-10

### D.2.2 Randomised controlled studies (RCTs) search terms

#### Medline search terms

1.	randomized controlled trial.pt.
2.	controlled clinical trial.pt.
3.	randomi#ed.ab.
4.	placebo.ab.

5.	randomly.ab.
6.	clinical trials as topic.sh.
7.	trial.ti.
8.	or/1-7

#### Embase search terms

1.	random*.ti,ab.
2.	factorial*.ti,ab.
3.	(crossover* or cross over*).ti,ab.
4.	((doubl* or singl*) adj blind*).ti,ab.
5.	(assign* or allocat* or volunteer* or placebo*).ti,ab.
6.	crossover procedure/
7.	double blind procedure/
8.	single blind procedure/
9.	randomized controlled trial/
10.	or/1-9

### D.2.3 Health economics search terms

#### Medline search terms

1.	economics/
2.	value of life/
3.	exp "costs and cost analysis"/
4.	exp economics, hospital/
5.	exp economics, medical/
6.	economics, nursing/
7.	economics, pharmaceutical/
8.	exp "fees and charges"/
9.	exp budgets/
10.	budget*.ti,ab.
11.	cost*.ti.
12.	(economic* or pharmaco?economic*).ti.
13.	(price* or pricing*).ti,ab.
14.	(cost* adj2 (effective* or utilit* or benefit* or minimi* or unit* or estimat* or variable*)).ab.
15.	(financ* or fee or fees).ti,ab.
16.	(value adj2 (money or monetary)).ti,ab.
17.	or/1-16

#### Embase search terms

1.	health economics/
2.	exp economic evaluation/
3.	exp health care cost/
4.	exp fee/
5.	budget/
6.	funding/
7.	budget*.ti,ab.
8.	cost*.ti.

9.	(economic* or pharmaco?economic*).ti.
10.	(price* or pricing*).ti,ab.
11.	(cost* adj2 (effective* or utilit* or benefit* or minimi* or unit* or estimat* or variable*)).ab.
12.	(financ* or fee or fees).ti,ab.
13.	(value adj2 (money or monetary)).ti,ab.
14.	or/1-13

#### D.2.4 Quality of life search terms

##### Medline search terms

1.	quality-adjusted life years/
2.	sickness impact profile/
3.	(quality adj2 (wellbeing or well-being)).ti,ab.
4.	sickness impact profile.ti,ab.
5.	disability adjusted life.ti,ab.
6.	(qal* or qtime* or qwb* or daly*).ti,ab.
7.	(euroqol* or eq5d* or eq 5d*).ti,ab.
8.	(qol* or hql* or hqol* or h qol* or hrqol* or hr qol*).ti,ab.
9.	(health utility* or utility score* or disutilit*).ti,ab.
10.	(hui or hui1 or hui2 or hui3).ti,ab.
11.	health* year* equivalent*.ti,ab.
12.	(hye or hyes).ti,ab.
13.	rosser.ti,ab.
14.	(willingness to pay or time tradeoff or time trade off or tto or standard gamble*).ti,ab.
15.	(sf36 or sf 36 or short form 36 or shortform 36 or shortform36).ti,ab.
16.	(sf20 or sf 20 or short form 20 or shortform 20 or shortform20).ti,ab.
17.	(sf12 or sf 12 or short form 12 or shortform 12 or shortform12).ti,ab.
18.	(sf8 or sf 8 or short form 8 or shortform 8 or shortform8).ti,ab.
19.	(sf6 or sf 6 or short form 6 or shortform 6 or shortform6).ti,ab.
20.	or/1-19

##### Embase search terms

1.	quality adjusted life year/
2.	"quality of life index"/
3.	short form 12/ or short form 20/ or short form 36/ or short form 8/
4.	sickness impact profile/
5.	(quality adj2 (wellbeing or well-being)).ti,ab.
6.	sickness impact profile.ti,ab.
7.	disability adjusted life.ti,ab.
8.	(qal* or qtime* or qwb* or daly*).ti,ab.
9.	(euroqol* or eq5d* or eq 5d*).ti,ab.
10.	(qol* or hql* or hqol* or h qol* or hrqol* or hr qol*).ti,ab.
11.	(health utility* or utility score* or disutilit*).ti,ab.
12.	(hui or hui1 or hui2 or hui3).ti,ab.
13.	health* year* equivalent*.ti,ab.
14.	(hye or hyes).ti,ab.

15.	rosser.ti,ab.
16.	(willingness to pay or time tradeoff or time trade off or tto or standard gamble*).ti,ab.
17.	(sf36 or sf 36 or short form 36 or shortform 36 or shortform36).ti,ab.
18.	(sf20 or sf 20 or short form 20 or shortform 20 or shortform20).ti,ab.
19.	(sf12 or sf 12 or short form 12 or shortform 12 or shortform12).ti,ab.
20.	(sf8 or sf 8 or short form 8 or shortform 8 or shortform8).ti,ab.
21.	(sf6 or sf 6 or short form 6 or shortform 6 or shortform6).ti,ab.
22.	or/1-21

### D.2.5 Excluded study designs and publication types

The following study designs and publication types were removed from retrieved results using the NOT operator.

#### Medline search terms

1.	letter/
2.	editorial/
3.	news/
4.	exp historical article/
5.	anecdotes as topic/
6.	comment/
7.	case report/
8.	(letter or comment*).ti.
9.	or/1-8
10.	randomized controlled trial/ or random*.ti,ab.
11.	9 not 10
12.	animals/ not humans/
13.	exp animals, laboratory/
14.	exp animal experimentation/
15.	exp models, animal/
16.	exp rodentia/
17.	(rat or rats or mouse or mice).ti.
18.	or/11-17

#### Embase search terms

1.	letter.pt. or letter/
2.	note.pt.
3.	editorial.pt.
4.	case report/ or case study/
5.	(letter or comment*).ti.
6.	or/1-5
7.	randomized controlled trial/ or random*.ti,ab.
8.	6 not 7
9.	animal/ not human/
10.	nonhuman/
11.	exp animal experiment/
12.	exp experimental animal/

13.	animal model/
14.	exp rodent/
15.	(rat or rats or mouse or mice).ti.
16.	or/8-15

## D.3 Searches for specific questions

### D.3.1 Induction and maintenance of remission

Searches for the following three questions were run as one search:

1. In adults and children with mild/moderate ulcerative colitis, what is the clinical and cost-effectiveness of corticosteroids, aminosalicylates and immunomodulators (mercaptopurine, azathioprine, methotrexate & tacrolimus) for the induction of remission compared to themselves (different preparations and doses), each other, combinations of preparations (oral and topical) and placebo?
2. In adults and children with mild/moderate ulcerative colitis, what is the clinical and cost-effectiveness of corticosteroids, aminosalicylates and immunomodulators (mercaptopurine, azathioprine, methotrexate & tacrolimus) for the maintenance of remission compared to themselves (different preparations and doses), each other, combinations of preparations (oral and topical) and placebo?
3. In adults and children with acute severe ulcerative colitis, what is the clinical and cost-effectiveness of corticosteroids and ciclosporin compared to each other and their combination (corticosteroids and ciclosporin) for the induction of remission?

Search constructed by combining the columns in the following table using the AND Boolean operator

Population	Intervention / exposure	Comparison	Study filter used	Date parameters
Adults, children and young people diagnosed with ulcerative colitis / acute severe ulcerative colitis	Corticosteroids, aminosalicylates, immunomodulators (mercaptopurine, azathioprine, methotrexate & tacrolimus) and ciclosporin	None	SR, RCT and exclusions (Medline and Embase only)	All available dates (see Table 1)

#### Medline search terms

1.	exp glucocorticoids/
2.	cortisone/
3.	hydrocortisone/
4.	(beclomethasone or betamethasone or budesonide or budenofalk or cortisone or deflazacort or depomedrone or depo-medrone or desoximetasone or dexamethasone or diflucortolone or efcortisol or entocort or hydrocortisone or kenalog or medrone or melengestrol acetate or methylprednisolone or methylprednisone or prednisolone or prednisone or solucortel or solu-cortel or solumedrone or solu-medrone or triamcinolone).ti,ab.
5.	methotrexate/
6.	methotrexate.ti,ab.
7.	6-mercaptopurine/
8.	mercaptopurine.ti,ab.
9.	azathioprine/



10.	(azathioprine or imuran).ti,ab.
11.	tacrolimus/
12.	(prograf* or FK506 or FK 506).ti,ab.
13.	cyclosporine/
14.	(ciclosporin* or cyclosporin* or sandimmun* or neoral).ti,ab.
15.	mesalamine/
16.	sulfasalazine/
17.	(aminosalicyl* or 5-aminosalicyl* or 5-ASA or 5ASA or 5aminosalicyl* or pentasa or mesalazine or mesalamine or asacol or mezavant or ipocol or mesren or salofalk).ti,ab.
18.	(sulfasalazine* or salazopyrin* or salazosulfapyridine* or asulfidine* or azulfadine* or azulfidine*).ti,ab.
19.	(olsalazine or balsalazide or dipentum or colazide or balsalazine).ti,ab.
20.	or/1-19

#### Embase search terms

1.	exp glucocorticoid/
2.	(beclo methasone or betamethasone or budesonide or budenofalk or cortisone or deflazacort or depomedrone or depo-medrone or desoximetasone or dexamethasone or diflucortolone or efcortisol or entocort or hydrocortisone or kenalog or medrone or melengestrol acetate or methylprednisolone or methylprednisone or prednisolone or prednisone or solucortel or solu-cortel or solumedrone or solu-medrone or triamcinolone).ti,ab.
3.	methotrexate/
4.	methotrexate.ti,ab.
5.	mercaptopurine/
6.	mercaptopurine.ti,ab.
7.	azathioprine/
8.	(azathioprine or imuran).ti,ab.
9.	tacrolimus/
10.	(prograf* or FK506 or FK 506).ti,ab.
11.	cyclosporin/
12.	(ciclosporin* or cyclosporin* or sandimmun* or neoral).ti,ab.
13.	mesalazine/
14.	salazosulfapyridine/
15.	(aminosalicyl* or 5-aminosalicyl* or 5-ASA or 5ASA or 5aminosalicyl* or pentasa or mesalazine or mesalamine or asacol or mezavant or ipocol or mesren or salofalk).ti,ab.
16.	(sulfasalazine* or salazopyrin* or salazosulfapyridine* or asulfidine* or azulfadine* or azulfidine*).ti,ab.
17.	(olsalazine or balsalazide or dipentum or colazide or balsalazine).ti,ab.
18.	or/1-17

#### Cochrane search terms

#1.	(beclo methasone or betamethasone or budesonide or budenofalk or cortisone or deflazacort or depomedrone or depo-medrone or desoximetasone or dexamethasone or diflucortolone or efcortisol or entocort or hydrocortisone or kenalog or medrone or melengestrol acetate or methylprednisolone or methylprednisone or prednisolone or prednisone or solucortel or solu-cortel or solumedrone or solu-medrone or triamcinolone):ti,ab,kw
#2.	MeSH descriptor Glucocorticoids explode all trees
#3.	(glucocorticoid* or corticosteroid*):ti,ab,kw
#4.	(methotrexate or mercaptopurine or azathioprine or imuran or tacrolimus or prograf* or FK

	506 or FK506 or cyclosporin* or ciclosporin* or sandimmun* or neoral):ti,ab,kw
#5.	(aminosalicyl* or 5-aminosalicyl* or 5-ASA or 5ASA or 5aminosalicyl* or pentasa or mesalazine or mesalamine or asacol or mezavant or ipocol or mesren or salofalk):ti,ab,kw
#6.	(sulfasalazine* or salazopyrin* or salazosulfapyridine* or asulfidine* or azulfadine* or azulfidine*):ti,ab,kw
#7.	(olsalazine or balsalazide or dipentum or colazide or balsalazine):ti,ab,kw
#8.	(#1 or #2 or #3 or #4 or #5 or #6 or #7)

### D.3.2 Risk factors for poor bone health in children

In children and young people with ulcerative colitis, are disease activity, systemic corticosteroid use, total vitamin D and malnutrition risk factors for poor bone health?

Search constructed by combining the columns in the following table using the AND Boolean operator

Population	Outcome	Comparison	Study filter used	Date parameters
Children and young people diagnosed with ulcerative colitis	Poor bone health, fracture	None	Exclusions (Medline and Embase only)	All available dates (see Table 1)

#### Medline search terms

1.	bone.hw. or bone*.ti,ab.
2.	(osteopor* or osteomal*).ti,ab.
3.	exp osteoporosis/
4.	osteomalacia/
5.	osteoporotic fractures/
6.	fracture*.ti,ab.
7.	fractures, cartilage/ or exp fractures, bone/
8.	or/1-7

#### Embase search terms

1.	bone.hw. or bone*.ti,ab.
2.	(osteopor* or osteomal*).ti,ab.
3.	fracture*.ti,ab.
4.	osteoporotic fractures/
5.	exp fracture/
6.	exp osteoporosis/
7.	exp osteomalacia/
8.	or/1-7

#### Cochrane search terms

#1.	(bone* or osteomal* or osteopor* or fracture*):ti,ab,kw
-----	---

### D.3.3 Growth and development in children and young people

In children and young people with ulcerative colitis, what are the optimal strategies (timing location) for monitoring growth?

Search constructed by combining the columns in the following table using the AND Boolean operator

Population	Intervention / exposure	Comparison	Study filter used	Date parameters
------------	-------------------------	------------	-------------------	-----------------

Population	Intervention / exposure	Comparison	Study filter used	Date parameters
Children and young people diagnosed with ulcerative colitis	Monitoring of growth / development	None	Exclusions (Medline and Embase only)	All available dates (see Table 1)

#### Medline search terms

1.	growth/
2.	growth retardation/
3.	failure to thrive/
4.	growth disorder/
5.	child growth/
6.	exp puberty/
7.	delayed puberty/
8.	child development/
9.	adolescent development/
10.	body height/
11.	body weight/
12.	((growth or pubert*) adj2 (impair* or delay* or disorder* or retard*)).ti,ab.
13.	linear growth.ti,ab.
14.	((height or growth) adj2 velocity).ti,ab.
15.	bone age.ti,ab.
16.	bone development/
17.	bone density/
18.	exp growth hormone/
19.	or/1-18

#### Embase search terms

1.	growth/
2.	growth retardation/
3.	failure to thrive/
4.	growth disorder/
5.	child growth/
6.	exp puberty/
7.	delayed puberty/
8.	child development/
9.	adolescent development/
10.	body height/
11.	body weight/
12.	((growth or pubert*) adj2 (impair* or delay* or disorder* or retard*)).ti,ab.
13.	linear growth.ti,ab.
14.	((height or growth) adj2 velocity).ti,ab.
15.	bone age.ti,ab.
16.	growth rate/
17.	growth hormone/
18.	human growth hormone/

19.	bone density/
20.	bone development/
21.	or/1-20

#### Cochrane search terms

#1.	MeSH descriptor Puberty explode all trees
#2.	MeSH descriptor Growth explode all trees
#3.	MeSH descriptor Growth Disorders explode all trees
#4.	MeSH descriptor Puberty, Delayed explode all trees
#5.	MeSH descriptor Adolescent Development explode all trees
#6.	MeSH descriptor Child Development explode all trees
#7.	MeSH descriptor Body Weight explode all trees
#8.	MeSH descriptor Body Height explode all trees
#9.	MeSH descriptor Failure to Thrive explode all trees
#10.	((growth or pubert*) near/2 (impair* or delay* or disorder* or retard*)):ti,ab,kw
#11.	linear growth:ti,ab,kw
#12.	((height or growth) near/2 velocity):ti,ab,kw
#13.	bone age:ti,ab,kw
#14.	MeSH descriptor Bone Density, this term only
#15.	MeSH descriptor Bone Development, this term only
#16.	MeSH descriptor Growth Hormone explode all trees
#17.	(bone next (develop* or density)):ti,ab,kw
#18.	growth hormone*:ti,ab,kw
#19.	(#1 or #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)

#### D.3.4 Information for patients relating to the outcomes of elective surgery

For adults, young people and children with ulcerative colitis considering surgery, what information on short and long term outcomes should be offered to patients and their carers by healthcare professionals?

Search constructed by combining the columns in the following table using the AND Boolean operator

Population	Intervention / exposure	Comparison	Study filter used	Date parameters
Adults, children and young people diagnosed with ulcerative colitis	Patient information on surgery for ulcerative colitis	None	Exclusions (Medline and Embase only)	All available dates (see Table 1)

#### Medline search terms

1.	ileostomy/
2.	colonic pouches/
3.	exp colectomy/
4.	ileostomy.ti,ab.
5.	colectomy.ti,ab.
6.	(proctocolectomy or procto-colectomy).ti,ab.
7.	IPAA.ti,ab.
8.	((J or S or W or kock or pelvic) adj2 pouch).ti,ab.

9.	((ileal or ileoanal or ileo-anal or anal or ileum or anus or rectal or rectum) adj2 (pouch* or reservoir*)).ti,ab.
10.	((ileal or pouch or ileoanal or ileo-anal or anal or ileum or anus or rectal or rectum) adj2 anastomos*).ti,ab.
11.	su.fs.
12.	or/1-11
13.	((client* or patient* or user* or carer* or consumer* or customer*) adj3 (attitud* or priorit* or perception* or preferen* or expectation* or choice* or perspective* or view* or satisfact* or inform* or experience* or opinion*)).mp.
14.	(information adj need*).mp.
15.	(information adj requirement*).mp.
16.	(information adj support*).mp.
17.	(patient* adj information*).mp.
18.	(service* adj2 acceptab*).mp.
19.	(service* adj2 unacceptab*).mp.
20.	psycho?social.mp.
21.	(patient* adj (complian* or adheren* or concordan*)).mp.
22.	patient education as topic/
23.	exp attitude to health/
24.	exp patient acceptance of health care/
25.	patient preference/
26.	or/13-25
27.	12 and 26

#### Embase search terms

1.	continent ileostomy/
2.	ileostomy/
3.	colon pouch/
4.	exp colon resection/
5.	proctocolectomy/
6.	ileoanal anastomosis/
7.	ileostomy.ti,ab.
8.	colectomy.ti,ab.
9.	(proctocolectomy or procto-colectomy).ti,ab.
10.	IPAA.ti,ab.
11.	((J or S or W or kock or pelvic) adj2 pouch).ti,ab.
12.	((ileal or ileoanal or ileo-anal or anal or ileum or anus or rectal or rectum) adj2 (pouch* or reservoir*)).ti,ab.
13.	((ileal or pouch or ileoanal or ileo-anal or anal or ileum or anus or rectal or rectum) adj2 anastomos*).ti,ab.
14.	su.fs.
15.	or/1-14
16.	((client* or patient* or user* or carer* or consumer* or customer*) adj3 (attitud* or priorit* or perception* or preferen* or expectation* or choice* or perspective* or view* or satisfact* or inform* or experience* or opinion*)).mp.
17.	(information adj need*).mp.
18.	(information adj requirement*).mp.

19.	(information adj support*).mp.
20.	(patient* adj information*).mp.
21.	(service* adj2 acceptab*).mp.
22.	(service* adj2 unacceptab*).mp.
23.	psycho?social.mp.
24.	(patient* adj (complan* or adheren* or concordan*)).mp.
25.	patient education/
26.	exp attitude/
27.	exp patient attitude/
28.	patient preference/
29.	patient information/
30.	or/16-29
31.	15 and 30

### Cochrane search terms

#1.	((client* or patient* or user* or carer* or consumer* or customer*) near/3 (attitud* or priorit* or perception* or preferen* or expectation* or choice* or perspective* or view* or satisfact* or inform* or experience* or opinion*)):ti,ab,kw
#2.	(information near need*):ti,ab,kw
#3.	(information near requirement*):ti,ab,kw
#4.	(information near support*):ti,ab,kw
#5.	(patient* near information*):ti,ab,kw
#6.	(service* near/2 acceptab*):ti,ab,kw
#7.	(service* near/2 unacceptab*):ti,ab,kw
#8.	(psychosocial or psycho-social):ti,ab,kw
#9.	(patient* near (complan* or adheren* or concordan*)):ti,ab,kw
#10.	(#1 or #2 or #3 or #4 or #5 or #6 or #7 or #8 or #9)

### D.3.5 Induction and maintenance of remission in pregnant women

What are the consequences of using drug treatments for the induction and maintenance of remission in pregnant women?

Search constructed by combining the columns in the following table using the AND Boolean operator

Population	Intervention / exposure	Comparison	Study filter used	Date parameters
Pregnant women with ulcerative colitis	Corticosteroids, aminosalicylates, immunomodulators (mercaptopurine, azathioprine, methotrexate & tacrolimus) and ciclosporin	None	Exclusions (Medline and Embase only)	All available dates (see Table 1)

### Medline search terms

1.	exp pregnancy/
2.	exp pregnancy complications/
3.	birth weight/
4.	pregnant women/

5.	prenatal care/
6.	(pregnant or pregnanc*).ti,ab.
7.	or/1-6
8.	exp glucocorticoids/
9.	cortisone/
10.	hydrocortisone/
11.	(beclo­methasone or betamethasone or budesonide or budenofalk or cortisone or deflazacort or depomedrone or depo-medrone or desoximetasone or dexamethasone or diflucortolone or efcortisol or entocort or hydrocortisone or kenalog or medrone or melengestrol acetate or methylprednisolone or methylprednisone or prednisolone or prednisone or solucortel or solu-cortel or solumedrone or solu-medrone or triamcinolone).ti,ab.
12.	methotrexate/
13.	methotrexate.ti,ab.
14.	6-mercaptopurine/
15.	mercaptopurine.ti,ab.
16.	azathioprine/
17.	(azathioprine or imuran).ti,ab.
18.	tacrolimus/
19.	(prograf* or FK506 or FK 506).ti,ab.
20.	cyclosporine/
21.	(ciclosporin* or cyclosporin* or sandimmun* or neoral).ti,ab.
22.	mesalamine/
23.	sulfasalazine/
24.	(aminosalicyl* or 5-aminosalicyl* or 5-ASA or 5ASA or 5aminosalicyl* or pentasa or mesalazine or mesalamine or asacol or mezavant or ipocol or mesren or salofalk).ti,ab.
25.	(sulfasalazine* or salazopyrin* or salazosulfapyridine* or asulfidine* or azulfadine* or azulfidine*).ti,ab.
26.	(olsalazine or balsalazide or dipentum or colazide or balsalazine).ti,ab.
27.	or/8-26
28.	7 and 27

**Embase search terms**

1.	exp pregnancy/
2.	exp pregnancy complication/
3.	pregnancy outcome/
4.	exp birth weight/
5.	pregnant woman/
6.	exp prenatal care/
7.	(pregnant or pregnanc*).ti,ab.
8.	or/1-7
9.	exp glucocorticoid/
10.	(beclo­methasone or betamethasone or budesonide or budenofalk or cortisone or deflazacort or depomedrone or depo-medrone or desoximetasone or dexamethasone or diflucortolone or efcortisol or entocort or hydrocortisone or kenalog or medrone or melengestrol acetate or methylprednisolone or methylprednisone or prednisolone or prednisone or solucortel or solu-cortel or solumedrone or solu-medrone or triamcinolone).ti,ab.
11.	methotrexate/
12.	methotrexate.ti,ab.

13.	mercaptopurine/
14.	mercaptopurine.ti,ab.
15.	azathioprine/
16.	(azathioprine or imuran).ti,ab.
17.	tacrolimus/
18.	(prograf* or FK506 or FK 506).ti,ab.
19.	cyclosporin/
20.	(ciclosporin* or cyclosporin* or sandimmun* or neoral).ti,ab.
21.	mesalazine/
22.	salazosulfapyridine/
23.	(aminosalicyl* or 5-aminosalicyl* or 5-ASA or 5ASA or 5aminosalicyl* or pentasa or mesalazine or mesalamine or asacol or mezavant or ipocol or mesren or salofalk).ti,ab.
24.	(sulfasalazine* or salazopyrin* or salazosulfapyridine* or asulfidine* or azulfadine* or azulfidine*).ti,ab.
25.	(olsalazine or balsalazide or dipentum or colazide or balsalazine).ti,ab.
26.	or/9-25
27.	8 and 26

#### Cochrane search terms

#1.	(pregnan* or "birth weight" or birthweight or pre-natal or ante-natal or prenatal or antenatal):ti,ab,kw
-----	--

### D.3.6 Tools for predicting likelihood of surgery in people with acute severe ulcerative colitis

Searches for this question used a slightly different population which is included in full in the following tables.

Which validated tools are the most predictive of the likelihood of surgery in people with acute severe ulcerative colitis?

Search constructed by combining the columns in the following table using the AND Boolean operator

Population	Intervention / exposure	Comparison	Study filter used	Date parameters
Adults children and young people with acute severe ulcerative colitis	Validated prediction tools	None	Exclusions (Medline and Embase only)	All available dates (see Table 1)

#### Medline search terms

1.	colitis, ulcerative/
2.	exp proctitis/
3.	exp inflammatory bowel diseases/
4.	(inflamm* adj2 (colon* or bowel)).ti,ab.
5.	(ulcer* adj2 colitis).ti,ab.
6.	(pancolitis or rectitis or proctocolitis or procto-colitis or coloproctitis or rectocolitis or rectocolitis or recto-sigmoiditis or rectosigmoiditis or procto-sigmoiditis or proctosigmoiditis or proctitis).ti,ab.
7.	((total or sub-total or subtotal or extensive or left-sided or universal) adj colitis).ti,ab.
8.	megacolon, toxic/
9.	megacolon.ti,ab.



10.	or/1-9
11.	((decision or predict* or assess* or screen* or score* or scoring or stratif*) adj4 (tool* or rule* or instrument*1 or index* or test* or technique* or analys* or criteria or course)).ti,ab.
12.	risk assessment/
13.	or/11-12
14.	incidence/
15.	exp mortality/
16.	follow-up studies/
17.	prognos*.tw.
18.	predict*.tw.
19.	course*.tw.
20.	prognosis/
21.	or/14-20
22.	10 and 13 and 21

#### Embase search terms

1.	ulcerative colitis/
2.	proctocolitis/
3.	proctitis/
4.	(inflamm* adj2 (colon* or bowel)).ti,ab.
5.	(ulcer* adj colitis).ti,ab.
6.	(pancolitis or rectitis or proctocolitis or procto-colitis or coloproctitis or rectocolitis or recto-colitis or recto-sigmoiditis or rectosigmoiditis or procto-sigmoiditis or proctosigmoiditis or proctitis).ti,ab.
7.	((total or sub-total or subtotal or extensive or left-sided or universal) adj colitis).ti,ab.
8.	toxic megacolon/
9.	megacolon.ti,ab.
10.	or/1-9
11.	((decision or predict* or assess* or screen* or score* or scoring or stratif*) adj4 (tool* or rule* or instrument*1 or index* or test* or technique* or analys* or criteria or course)).ti,ab.
12.	risk assessment/
13.	or/11-12
14.	incidence/
15.	exp mortality/
16.	follow-up studies/
17.	prognos*.tw.
18.	predict*.tw.
19.	course*.tw.
20.	prognosis/
21.	or/14-20
22.	10 and 13 and 21

#### Cochrane search terms

#1.	MeSH descriptor Inflammatory Bowel Diseases explode all trees
#2.	MeSH descriptor Proctitis explode all trees
#3.	MeSH descriptor Colitis, Ulcerative explode all trees
#4.	(ulcer* near/2 colitis):ti,ab,kw

#5.	(inflamm* near/2 (colon* or bowel)):ti,ab,kw
#6.	(pancolitis or rectitis or proctocolitis or procto-colitis or coloproctitis or rectocolitis or recto-colitis or recto-sigmoiditis or rectosigmoiditis or procto-sigmoiditis or proctosigmoiditis or proctitis):ti,ab,kw
#7.	((total or sub-total or subtotal or extensive or left-sided or universal) near colitis):ti,ab,kw
#8.	megacolon:ti,ab,kw
#9.	(#1 or #2 or #3 or #4 or #5 or #6 or #7 or #8)
#10.	((decision or predict* or assess* or screen* or score* or scoring or stratif*) near/4 (tool* or rule* or instrument* or index* or test* or technique* or analys* or criteria or course)):ti,ab,kw
#11.	(risk* near/2 assessment*):ti,ab,kw
#12.	(#10 or #11)
#13.	(prognos* or predict* or course*):ti,ab,kw
#14.	(incidence or mortality or follow-up or followup or follow up):ti,ab,kw
#15.	(#13 or #14)
#16.	(#9 and #12 and #15)

## D.4 Economic searches

### D.4.1 Economic reviews

Economic searches were conducted in Medline and Embase using the standard population terms and an economic filter. Search terms used in HEED and CRD (NHS EED and HTA) are below.

Population	Intervention / exposure	Comparison	Study filter used	Date parameters
Adults, children and young people diagnosed with ulcerative colitis	None	None	Economic (Medline and Embase only)	Medline and Embase 2010-15 <sup>th</sup> Nov 2012 CRD EED and HTA to 15 <sup>th</sup> Nov 2012

### CRD search terms

#1	MeSH Colitis, Ulcerative explode 1 2 3 4
#2	MeSH Proctocolitis explode 1 2 3 4 5
#3	MeSH Inflammatory Bowel Diseases explode 1 2
#4	inflamm* near bowel
#5	inflamm* near colon
#6	(( ulcer* or hemorrhagic or haemorrhagic ) and ( colitis or colon* ))
#7	( pancolitis or rectitis or proctocolitis or coloproctitis or rectocolitis or rectosigmoiditis or proctosigmoiditis or proctitis or procto-colitis or colo-rectitis or recto-colitis or recto-sigmoiditis or procto-sigmoiditis )
#8	#1 or #2 or #3 or #4 or #5 or #6 or #7

### HEED search terms

1	AX=(inflamm* and colon) or (inflamm* and bowel)
2	AX=ulcer* and colitis
3	AX=ulcer* and colon
4	AX=pancolitis or rectitis or proctocolitis or coloproctitis or rectocolitis or rectosigmoiditis or proctosigmoiditis or procto-colitis or colo-rectitis or recto-colitis or recto-sigmoiditis or procto-sigmoiditis or proctitis

5	CS=1 or 2 or 3 or 4
---	---------------------

#### D.4.2 Quality of life reviews

These searches were carried out on Medline and Embase only

Population	Intervention / exposure	Comparison	Study filter used	Date parameters
Adults, children and young people diagnosed with ulcerative colitis	None	None	Quality of life, exclusions (Medline and Embase only)	Medline and Embase to May 2011

#### D.5 References

- 1 National Institute for Health and Clinical Excellence. The guidelines manual. London: National Institute for Health and Clinical Excellence; 2009. Available from: <http://www.nice.org.uk/aboutnice/howwework/developingniceclinicalguidelines/clinicalguidelinedevelopmentmethods/GuidelinesManual2009.jsp>