

Appendix B: Search strategies and databases searched

This appendix details the search strategies used in the identification of relevant studies for the guideline on Irritable Bowel Syndrome (IBS). The search strategies are presented as closely as possible in the same order as they appear in the full guideline. The searches carried out to inform the cost-effectiveness reviews are presented at the end of this appendix.

The National Collaborating Centre for Nursing and Supportive Care (NCC-NSC) conducted all searches on the following databases: Medline, Embase, Cinahl (using the OVID interface) and The Cochrane Library. Additional databases were searched for individual reviews if appropriate.

All searches were performed for articles published since the inception of each database.

Search filters were applied where appropriate, including filters for randomised controlled trials (RCT) and systematic reviews (SR). The RCT filter used was based on that recommended by Cochrane (Higgins, 2005). An exclusions filter was designed to remove irrelevant results.

The search strategies for each review are reproduced below. Note that the searches make use of the controlled vocabulary which varies between databases and between search interfaces. Amendments were made where necessary in order to take these variations into account.

Where possible, searches were restricted to articles written in English. All searches were updated to June 2007.

Hand searching was not undertaken by the NCC-NSC following NICE advice that exhaustive searching on every guideline review topic is not practical (Mason et al., 2002). Reference lists of articles were checked for further articles of potential relevance.

IBS Filter

The following patient filter was developed in consultation with the Guideline Development Group (GDG).

Medline

- 1 ((intestin\$ or gastrointestin\$ or colon\$ or bowel\$) adj2 (motility or sensitiv\$ or functional or irritable or irritat\$ or gas\$ or spastic\$ or unstable or instability or spasm\$)).mp.
- 2 flatus.mp.
- 3 bloat\$.mp.
- 4 irritable bowel syndrome.mp.
- 5 IBS.mp.
- 6 ((faecal or fecal) adj2 incontinen\$).mp.
- 7 dyspepsia/
- 8 exp gastrointestinal motility/
- 9 flatulence/
- 10 irritable bowel syndrome/
- 11 colonic diseases, functional/
- 12 fecal incontinence/
- 13 or/1-12
- 14 (diarrhoea or diarrhea).mp.
- 15 diarrhea/
- 16 constipat\$.mp.
- 17 constipation/
- 18 or/14-17
- 19 13 or 18

Embase

- 1 ((intestin\$ or gastrointestin\$ or colon\$ or bowel\$) adj2 (motility or sensitiv\$ or functional or irritable or irritat\$ or gas\$ or spastic\$ or unstable or instability or spasm\$)).ti,ab.
- 2 flatus.ti,ab.
- 3 wind.ti,ab. not exp weather/
- 4 bloat\$.ti,ab.
- 5 irritable bowel syndrome.ti,ab.
- 6 IBS.ti,ab.
- 7 ((faecal or fecal) adj2 incontinen\$).ti,ab.
- 8 dyspepsia/
- 9 exp gastrointestinal motility/
- 10 flatulence/
- 11 irritable colon/
- 12 feces incontinence/
- 13 or/1-12
- 14 (diarrhoea or diarrhea).ti,ab.
- 15 diarrhea/
- 16 constipat\$.ti,ab.
- 17 constipation/
- 18 or/14-17
- 19 13 or 18

Cinahl

- 1 ((intestin\$ or gastrointestin\$ or colon\$ or bowel\$) adj2 (motility or sensitiv\$ or functional or irritable or irritat\$ or gas\$ or spastic\$ or unstable or instability or spasm\$)).mp.
- 2 flatus.mp.
- 3 wind.mp. not exp weather/
- 4 bloat\$.mp.
- 5 irritable bowel syndrome.mp.
- 6 IBS.mp.
- 7 ((faecal or fecal) adj2 incontinen\$).mp.
- 8 dyspepsia/
- 9 exp gastrointestinal motility/
- 10 flatulence/
- 11 irritable bowel syndrome/
- 12 fecal incontinence/
- 13 or/1-12
- 14 (diarrhoea or diarrhea).mp.
- 15 diarrhea/
- 16 constipat\$.mp.
- 17 constipation/
- 18 or/14-17
- 19 13 or 18

The Cochrane Library

- #1 ((intestin* or gastointestin* or colon* or bowel*) near/2 (motility or sensitiv* or functional or irritable or irritat* or gas* or spastic* or unstable or instability or spasm*))
- #2 (bloat* or flatus or flatulen* or wind)
- #3 irritable bowel syndrome
- #4 IBS
- #5 ((faecal or fecal) near/2 incontinen*)
- #6 dyspepsia
- #7 (diarrhoea or diarrhea)
- #8 constipat*
- #9 (#1 OR #2 OR #3 OR #4 OR #5 OR #6 OR #7 OR #8)

RCT Filter

The following filter is based on that recommended in the Cochrane Handbook (Higgins, 2005).

Medline

- 1 randomized controlled trial.pt.
- 2 controlled clinical trial.pt.
- 3 randomized controlled trials/
- 4 random allocation/
- 5 double blind method/
- 6 single blind method/
- 7 or/1-6
- 8 animals/ not humans/
- 9 7 not 8
- 10 clinical trial.pt.
- 11 exp clinical trials/
- 12 (clin\$ adj25 trial\$).ti,ab.
- 13 ((singl\$ or doubl\$ or trebl\$ or tripl\$) adj25 (blind\$ or mask\$)).ti,ab.
- 14 placebos/
- 15 placebo\$.ti,ab.
- 16 random\$.ti,ab.
- 17 research design/
- 18 or/10-17
- 19 18 not 8
- 20 19 not 9
- 21 9 or 20

Embase

- 1 exp randomized controlled trial/
- 2 (random\$ or placebo\$).ti,ab.
- 3 ((singl\$ or doubl\$ or trebl\$ or tripl\$) adj25 (blind\$ or mask\$)).ti,ab.
- 4 (clin\$ adj25 trial\$).ti,ab.
- 5 exp comparative study/
- 6 exp evaluation/
- 7 exp follow up/
- 8 exp prospective study/
- 9 (control\$ or prospective\$ or volunteer\$).ti,ab.
- 10 or/1-9
- 11 exp human/
- 12 10 and 11

Cinahl

- 1 exp clinical trials/
- 2 clinical trial.pt.
- 3 (clin\$ adj25 trial\$).ti,ab.
- 4 ((singl\$ or doubl\$ or trebl\$ or tripl\$) adj25 (blind\$ or mask\$)).ti,ab.
- 5 (random\$ or placebo\$).ti,ab.
- 6 random assignment/

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- 7 placebos/
- 8 quantitative studies/
- 9 (control\$ or prospective\$ or volunteer\$).ti,ab.
- 10 or/1-9

SR Filter

Medline / Embase

- 1 review.pt. or review.ti.
(systematic\$ or evidence\$ or methodol\$ or quantitativ\$ or analys\$ or
- 2 assessment\$).ti,sh,ab.
- 3 1 and 2
- 4 meta-analysis.pt.
- 5 meta-analysis/
- 6 (meta-analy\$ or metanaly\$ or metaanaly\$ or meta analy\$).ti,ab.
((systematic\$ or evidence\$ or methodol\$ or quantitativ\$) adj5 (review\$ or survey\$
- 7 or overview\$)).ti,ab,sh.
- 8 ((pool\$ or combined or combining) adj2 (data or trials or studies or results)).ti,ab.
- 9 or/3-8

Cinahl

- 1 review.pt. or review.ti. or "systematic review".pt.
(systematic\$ or evidence\$ or methodol\$ or quantitativ\$ or analys\$ or
- 2 assessment\$).ti,sh,ab.
- 3 1 and 2
- 4 meta-analysis/
- 5 (meta-analy\$ or metanaly\$ or metaanaly\$ or meta analy\$).ti,ab.
((systematic\$ or evidence\$ or methodol\$ or quantitativ\$) adj5 (review\$ or survey\$ or
- 6 overview\$)).ti,ab,sh.
- 7 ((pool\$ or combined or combining) adj2 (data or trials or studies or results)).ti,ab.
- 8 or/1-7

Exclusions Filter

The following filter was designed to remove irrelevant results from searches. If used it was combined into search strategies using the NOT operator.

Medline / Embase / Cinahl

- 1 letter.pt.
- 2 letter/
- 3 letter\$/
- 4 editorial.pt.
- 5 historical article.pt.
- 6 anecdote.pt.
- 7 commentary.pt.
- 8 note.pt.
- 9 case report/
- 10 case report\$.pt.
- 11 case study/
- 12 case study.pt.
- 13 exp animal/ not human/
- 14 nonhuman/
- 15 exp animal studies/
- 16 animals, laboratory/
- 17 exp experimental animal/
- 18 exp animal experiment/
- 19 exp animal model/
- 20 exp rodentia/
- 21 exp rodents/
- 22 exp rodent/
- 23 or/1-22

Diagnosis

Medline

- 1 irritable bowel syndrome.mp.
- 2 IBS.mp.
- 3 irritable bowel syndrome/
- 4 or/1-3
- 5 sensitiv\$.mp.
- 6 diagnos\$.mp.
- 7 di.fs.
- 8 or/5-7
- 9 4 and 8

Embase

- 1 sensitiv\$.mp.
- 2 diagnos\$.mp.
- 3 di.fs.
- 4 or/1-3
- 5 irritable bowel syndrome.mp.
- 6 IBS.mp.
- 7 irritable colon/
- 8 or/5-7
- 9 4 and 8

Cinahl

- 1 sensitiv\$.mp.
- 2 diagnos\$.mp.
- 3 di.fs.
- 4 or/1-3
- 5 irritable bowel syndrome.mp.
- 6 IBS.mp.
- 7 irritable bowel syndrome/
- 8 or/5-7
- 9 4 and 8

The Cochrane Library

- #1 irritable bowel syndrome
- #2 IBS
- #3 (#1 OR #2)
- #4 (sensitiv* or diagnos*):ti,ab,kw
- #5 (#3 AND #4)

Referral

The following search strategies were combined with the IBS filter described above. This search was carried out and sifted in combination with the Follow-up search below.

Medline

- 1 "referral and consultation"/
- 2 referral\$.ti,ab.
- 3 21 or 22

Embase

- 1 patient referral/
- 2 referral\$.mp.
- 3 20 or 21

Cinahl

- 1 exp "referral and consultation"/
- 2 referral\$.mp.
- 3 20 or 21

The Cochrane Library

- #1 referral*:ti,ab,kw

Follow-up

This searched carried out and sifted in combination with the Referral search above.

Medline

- 1 irritable bowel syndrome.mp.
- 2 IBS.mp.
- 3 irritable bowel syndrome/
- 4 or/1-3
- 5 long-term care/
- 6 aftercare/
- 7 exp primary health care/
- 8 (primary adj (care or health?care)).mp.
- 9 (follow\$ adj up).mp.
- 10 follow up studies/
- 11 ((repeat\$ or return\$) adj3 (visit\$ or consult\$ or appointment\$)).mp.
- 12 exp treatment outcome/
- 13 or/5-12
- 14 4 and 13

Embase

- 1 irritable bowel syndrome.mp.
- 2 IBS.mp.
- 3 irritable bowel syndrome/
- 4 or/1-3
- 5 long term care/
- 6 aftercare/
- 7 follow up/
- 8 (follow\$ adj up).mp.
- 9 ((repeat\$ or return\$) adj3 (visit\$ or consult\$ or appointment\$)).mp.
- 10 exp primary health care/
- 11 (primary adj (care or health?care)).mp.
- 12 exp treatment outcome/
- 13 or/5-12
- 14 4 and 13

Cinahl

- 1 irritable bowel syndrome.mp.
- 2 IBS.mp.
- 3 irritable bowel syndrome/
- 4 or/1-3
- 5 long term care/
- 6 after care/
- 7 (follow\$ adj up).mp.
- 8 (primary adj (care or health?care)).mp.
- 9 exp primary health care/
- 10 ((repeat\$ or return\$) adj3 (visit\$ or consult\$ or appointment\$)).mp.
- 11 exp treatment outcomes/

- 12 or/5-12
- 13 4 and 12

The Cochrane Library

- #1 irritable bowel syndrome
- #2 IBS
- #3 #1 or #2
- #4 follow* next up
- #5 (primary next (care or health*care))
- #6 ((repeat* or return*) near/3 (visit* or consult* or appointment*))
- #7 (after next care) or aftercare
- #8 (long next term next care) or (long*term next care)
- #9 treatment next outcome*
- #10 (#4 OR #5 OR #6 OR #7 OR #8 OR #9)
- #11 #3 and #10

Physical Activity

The following search strategies were combined with the IBS and exclusions filters described above. They were limited by RCT and SR study design filters.

Medline

- 1 exertion/
- 2 exp exercise movement techniques/
- 3 exercise/
- 4 physical fitness/
- 5 "physical education and training"/
- 6 exp sports/
- 7 dancing/
- 8 (((tai or t'ai) adj (chi or ji)) or (taiji or taichi)).mp.
- 9 (aerobic\$ adj exercise\$).mp.
- 10 exercise\$.mp.
- 11 (physical\$ adj3 (fit\$ or exercis\$ or train\$ or activ\$ or endur\$)).mp.
- 12 (exercis\$ adj3 (train\$ or activ\$)).mp.
- 13 (activ\$ adj3 life?style\$).mp.
- 14 or/1-13

Embase

- 1 exp kinesiotherapy/
- 2 exp exercise/
- 3 fitness/
- 4 physical education/
- 5 exp sport/
- 6 dancing/
- 7 (((tai or t'ai) adj (chi or ji)) or (taiji or taichi)).mp.
- 8 (aerobic\$ adj exercise\$).mp.
- 9 exercise\$.mp.
- 10 (physical\$ adj3 (fit\$ or exercis\$ or train\$ or activ\$ or endur\$)).mp.
- 11 (exercis\$ adj3 (train\$ or activ\$)).mp.
- 12 (activ\$ adj3 life?style\$).mp.
- 13 or/1-12

Cinahl

- 1 exertion/
- 2 therapeutic exercise/
- 3 walking/
- 4 tai chi/
- 5 yoga/
- 6 exp exercise/
- 7 physical fitness/
- 8 physical activity/
- 9 "physical education and training"/
- 10 exp sports/
- 11 exp dancing/

- 12 (((tai or t'ai) adj (chi or ji)) or (taiji or taichi)).mp.
- 13 (aerobic\$ adj exercise\$).mp.
- 14 exercise\$.mp.
- 15 (physical\$ adj3 (fit\$ or exercis\$ or train\$ or activ\$ or endur\$)).mp.
- 16 (exercis\$ adj3 (train\$ or activ\$)).mp.
- 17 (activ\$ adj3 life?style\$).mp.
- 18 or/1-17

The Cochrane Library

- #1 exertion or exercis* or dance* or dancing or yoga or walk* or sport* or run* or jog* or swim* or bike* or bicycl*
- #2 ((tai or t'ai) NEXT (chi or ji)) or (taichi or taiji)
- #3 (physical* NEAR/3 (fit* or exercis* or train* or activ* or educat* or endur*))
- #4 (exercis* NEAR/3 (train* or activ*))
- #5 (activ* NEAR/3 life*style*)
- #6 (#1 OR #2 OR #3 OR #4 OR #5)

Fibre

The following search strategies were combined with the IBS filter described above. They were limited by RCT and SR study design filters

Medline

- 1 (fibre or fiber).mp.
- 2 exp dietary fiber/
- 3 bran.mp.
- 4 roughage.mp.
- 5 nuts/
- 6 seeds/
- 7 fruit/
- 8 vegetables/
- 9 avena sativa/ or oats.mp.
- 10 pectins/ or pectin\$.mp.
- 11 triticum/ or wheat.mp.
- 12 psyllium/ or (ispaghula or isogel or ispaghule or metamucil or plantaglucide or plantago or reguval).mp.
- 13 (calcium polycarbophil or polycarbofil or mitrolan).mp.
- 14 or/1-13

Embase

- 1 exp dietary fiber/
- 2 (fibre or fiber).mp.
- 3 exp bran/
- 4 bran.mp.
- 5 roughage.mp.
- 6 exp nut/
- 7 exp plant seed/
- 8 exp fruit/
- 9 exp vegetable/
- 10 exp oat/
- 11 exp pectin/
- 12 exp wheat/
- 13 exp ispagula/
- 14 exp polycarbophil calcium/
- 15 (psyllium or ispaghula or isogel or ispaghule or metamucil or plantaglucide or plantago or reguval).mp.
- 16 (calcium polycarbophil or polycarbofil or mitrolan).mp.
- 17 or/1-16

Cinahl

- 1 exp dietary fiber/
- 2 (fibre or fiber).mp.
- 3 bran.mp.
- 4 roughage.mp.
- 5 exp fruit/
- 6 exp vegetables/

- 7 (nuts or seeds).mp.
- 8 oats/
- 9 oats.mp.
- 10 pectin\$.mp.
- 11 exp wheat/
- 12 exp psyllium/
- 13 (ispaghula or isogel or ispaghule or metamucil or plantaglucide or plantago or reguval).mp.
- 14 (calcium polycarbophil or polycarbofil or mitrolan).mp.
- 15 or/1-14

The Cochrane Library

- #1 fibre OR fiber OR roughage OR bran
- #2 nuts or seed* or fruit* or vegetable* or oat* or pectin* or wheat* or psyllium or ispaghula or ispagula or isogel or ispaghule or metamucil or plantaglucide or plantago or reguval or calcium polycarbophil or polycarbofil or mitrolan
- #3 #1 or #2

Probiotics

The following search strategies were combined with the IBS filter described above. They were limited by RCT and SR study design filters.

Medline

- 1 exp probiotics/
- 2 pro?biotic\$.mp.
- 3 pre?biotic\$.mp.
- 4 syn?biotic\$.mp.
- 5 exp oligosaccharides/
- 6 oligosaccharide\$.mp.
- 7 bifidobacterium/
- 8 exp lactobacillus/
- 9 lactobacill\$.mp.
- 10 (bifido\$ or bifidu\$).mp.
- 11 exp inulin/
- 12 exp lactococcus/
- 13 exp enterococcus/
- 14 exp streptococcus/
- 15 exp saccharomyces/
- 16 lactococc\$.mp.
- 17 enterococc\$.mp.
- 18 streptococc\$.mp.
- 19 saccharomyces.mp.
- 20 or/1-19

Embase

- 1 probiotic agent/
- 2 prebiotic agent/
- 3 synbiotic agent/
- 4 pro?biotic\$.mp.
- 5 pre?biotic\$.mp.
- 6 syn?biotic\$.mp.
- 7 exp oligosaccharides/
- 8 oligosaccharide\$.mp.
- 9 bifidobacterium/
- 10 exp lactobacillus/
- 11 lactobacill\$.mp.
- 12 (bifido\$ or bifidu\$).mp.
- 13 exp inulin/
- 14 exp lactococcus/
- 15 exp enterococcus/
- 16 exp streptococcus/
- 17 exp saccharomyces/
- 18 lactococc\$.mp.
- 19 enterococc\$.mp.
- 20 streptococc\$.mp.
- 21 saccharomyces.mp.
- 22 or/1-21

Cinahl

- 1 probiotics/
- 2 pro?biotic\$.mp.
- 3 pre?biotic\$.mp.
- 4 syn?biotic\$.mp.
- 5 exp oligosaccharides/
- 6 oligosaccharide\$.mp.
- 7 exp lactobacillus/
- 8 lactobacill\$.mp.
- 9 (bifido\$ or bifidu\$).mp.
- 10 inulin\$.mp.
- 11 exp enterococcus/
- 12 exp streptococcus/
- 13 lactococc\$.mp.
- 14 enterococc\$.mp.
- 15 streptococc\$.mp.
- 16 saccharomyces.mp.
- 17 or/1-16

The Cochrane Library

- #1 (pro*biotic* or pre*biotic* or syn*biotic*)
- #2 (oligosaccharide* or bifido* or bifidu* or lactobacill* or inulin* or lactococc* or enterococc* or streptococc* or saccharomyces)
- #3 (#1 OR #2)

Aloe Vera

See Biofeedback

Exclusion Diet

The following search strategies were combined with the IBS and exclusions filters described above. They were limited by RCT and SR study design filters.

Medline

- 1 ((food or gluten or wheat or lactose) adj (sensitiv\$ or hypersensitiv\$ or toleran\$ or intoleran\$)).ti,ab.
- 2 food hypersensitivity/
- 3 wheat hypersensitivity/
- 4 lactose intolerance/
- 5 ((elimination or exclusion) adj2 diet\$).ti,ab.
- 6 or/1-5

Embase

- 1 ((food or gluten or wheat or lactose) adj (sensitiv\$ or hypersensitiv\$ or toleran\$ or intoleran\$)).ti,ab.
- 2 gluten free diet/
- 3 wheat allergy/
- 4 lactose intolerance/
- 5 food allergy/
- 6 ((elimination or exclusion) adj2 diet\$).ti,ab.
- 7 exclusion diet/
- 8 or/1-7

Cinahl

- 1 ((food or gluten or wheat or lactose) adj (sensitiv\$ or hypersensitiv\$ or toleran\$ or intoleran\$)).ti,ab.
- 2 diet, gluten-free/
- 3 food hypersensitivity/
- 4 lactose intolerance/
- 5 ((elimination or exclusion) adj2 diet\$).ti,ab.
- 6 or/1-5

The Cochrane Library

- #1 (food or gluten or wheat or lactose):kw,ti,ab and (sensitiv* or hypersensitiv* or toleran* or intoleran*):kw,ti,ab
- #2 (elimination or exclusion) near/2 diet*:kw,ti,ab
- #3 (#1 OR #2)

Laxatives

The following search strategies were combined with the IBS filter described above. They were limited using the exclusions filter by RCT and SR study design filters.

Medline

- 1 ((faecal or fecal or stool\$ or feces or faeces) adj3 soften\$).mp.
- 2 ((bowel\$ or colon\$) adj clean\$).mp.
- 3 (purgative\$ or cathartic\$ or laxative\$).mp.
- 4 exp cathartics/
- 5 or/1-4

Embase

- 1 ((faecal or fecal or stool\$ or feces or faeces) adj3 soften\$).mp.
- 2 ((bowel\$ or colon\$) adj clean\$).mp.
- 3 (purgative\$ or cathartic\$ or laxative\$).mp.
- 4 exp Laxative/
- 5 or/1-4

Cinahl

- 1 ((faecal or fecal or stool\$ or feces or faeces) adj3 soften\$).mp.
- 2 ((bowel\$ or colon\$) adj clean\$).mp.
- 3 (purgative\$ or cathartic\$ or laxative\$).mp.
- 4 exp cathartics/
- 5 or/1-4

The Cochrane Library

- #1 (laxative* or cathartic* or purgative*):kw,ab,ti
- #2 ((bowel* or colon*) near/3 clean*):kw,ab,ti
- #3 ((faecal or fecal or stool* or feces or faeces) near/3 soften*):kw,ab,ti
- #4 (#1 OR #2 OR #3)
- #5 MeSH descriptor Cathartics explode all trees
- #6 (#4 OR #5)

Laxatives: Adverse Drug Effects

The following search strategies were combined with the IBS filter described above.

Medline

- 1 ((faecal or fecal or stool\$ or feces or faeces) adj3 soften\$).mp.
- 2 ((bowel\$ or colon\$) adj clean\$).mp.
- 3 (purgative\$ or cathartic\$ or laxative\$).mp.
- 4 to.fs.
- 5 ae.fs.
- 6 or/1-3
- 7 4 or 5
- 8 6 and 7
- 9 exp cathartics/to, ae
- 10 8 or 9

Embase

- 1 ((faecal or fecal or stool\$ or feces or faeces) adj3 soften\$).mp.
- 2 ((bowel\$ or colon\$) adj clean\$).mp.
- 3 (purgative\$ or cathartic\$ or laxative\$).mp.
- 4 or/1-3
- 5 to.fs.
- 6 ae.fs.
- 7 or/5-6
- 8 4 and 7
- 9 exp laxative/ae, to
- 10 8 or 9

Cinahl

- 1 ((faecal or fecal or stool\$ or feces or faeces) adj3 soften\$).mp.
- 2 ((bowel\$ or colon\$) adj clean\$).mp.
- 3 (purgative\$ or cathartic\$ or laxative\$).mp.
- 4 or/1-3
- 5 ae.fs.
- 6 4 and 5
- 7 exp cathartics/ae
- 8 6 or 7

The Cochrane Library

- #1 ((adverse*) near/2 (effect* OR reaction* OR event*)):ti,ab,kw
- #2 side effect*:tw,ab,ti
- #3 toxic*:ti,ab,kw
- #4 drug* near/2 safe*:ti,ab,kw
- #5 (complication* or tolerability):ti,ab,kw
- #6 (#1 OR #2 OR #3 OR #4 OR #5)
- #7 (laxative* or cathartic* or purgative*):kw,ab,ti
- #8 ((bowel* or colon*) near/3 clean*):kw,ab,ti

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- #9 ((faecal or fecal or stool* or feces or faeces) near/3 soften*):kw,ab,ti
- #10 MeSH descriptor Cathartics explode all trees with qualifiers: AE,TO
- #11 (#7 OR #8 OR #9 OR #10)
- #12 (#6 AND #11)

Antimotility

The following search strategies were combined with the IBS and exclusions filters described above. They were limited by RCT and SR study design filters.

Medline

- 1 exp antidiarrheals/
- 2 (anti?diarrh?ea\$ or anti?peristaltic\$ or anti?motility).mp.
- 3 exp codeine/ or codeine.tw.
- 4 or/1-3

Embase

- 1 exp Antidiarrheal Agent/
- 2 (anti?diarrh?ea\$ or anti?peristaltic\$ or anti?motility).mp.
- 3 exp codeine/ or codeine.tw.
- 4 or/1-3

Cinahl

- 1 exp Antidiarrheals/
- 2 (anti?diarrh?ea\$ or anti?peristaltic\$ or anti?motility).mp.
- 3 exp codeine/ or codeine.tw.
- 4 or/1-3

The Cochrane Library

- #1 (anti*diarrh*ea* or anti*peristaltic* or anti*motility):ti,kw,ab
- #2 (codeine or loperamide or imodium or lomotil or diphenoxylate):kw,ti,ab
- #3 (#1 OR #2)

Antimotility: Adverse Drug Effects

The following search strategies were combined with the IBS filter described above.

Medline

- 1 exp antidiarrheals/to, ae
- 2 exp codeine/to, ae
- 3 (anti?diarrh?ea\$ or anti?peristaltic\$ or anti?motility).mp.
- 4 codeine.tw.
- 5 to.fs.
- 6 ae.fs.
- 7 or/5-6
- 8 3 or 4
- 9 7 and 8
- 10 1 or 2 or 9

Embase

- 1 exp Antidiarrheal Agent/ae, to
- 2 exp codeine/to, ae
- 3 (anti?diarrh?ea\$ or anti?peristaltic\$ or anti?motility).mp.
- 4 codeine.tw.
- 5 or/3-4
- 6 ae.fs.
- 7 to.fs.
- 8 6 or 7
- 9 5 and 8
- 10 1 or 2 or 9

Cinahl

- 1 exp Antidiarrheals/ae
- 2 exp codeine/ae
- 3 (anti?diarrh?ea\$ or anti?peristaltic\$ or anti?motility).mp.
- 4 codeine.tw.
- 5 or/3-4
- 6 ae.fs.
- 7 5 and 6
- 8 1 or 2 or 7

The Cochrane Library

- #1 (anti*diarrh*ea* or anti*peristaltic* or anti*motility):ti,kw,ab
- #2 (codeine or loperamide or imodium or lomotil or diphenoxylate):kw,ti,ab
- #3 (#1 OR #2)
- #4 ((adverse*) near/2 (effect* OR reaction* OR event*)):ti,ab,kw
- #5 side effect*:tw,ab,ti
- #6 toxic*:ti,ab,kw
- #7 drug* near/2 safe*:ti,ab,kw
- #8 (complication* or tolerability):ti,ab,kw

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#9 (#4 OR #5 OR #6 OR #7 OR #8)

#10 (#3 AND #9)

Antispasmodics

The following search strategies were combined with the IBS filter described above. They were limited by RCT and SR study design filters.

Medline

- 1 exp parasympholytics/
- 2 spasmolytic\$.mp.
- 3 (anti-spasmodic\$ or antispasmodic\$ or parasympholytic\$).mp.
- 4 (mebeverine or duspatalin or spasmotalin or duphaspasmin).mp.
- 5 (pinaverium bromide or dicetel or eldicet).mp.
- 6 (otilonium bromide or octylonium or spasmomen or doralin).mp.
- 7 (cimetropium bromide or alginor).mp.
- 8 (hyoscine butyl bromide or hyoscinbutylbromide or scopolaminebutylbromide or buscapine or buscolysin or buscopan or butylscopolamine or scopolan).mp.
- 9 (trimebutin\$ or debridat or cerekinon).mp.
- 10 (scopolamine or hyoscine or scoburen or scopace or scopoderm or vorigeno or atrochin or atroquin or atroscine or oscine).mp.
- 11 ((peppermint adj2 oil\$) or (colpermin or mintec)).mp.
- 12 exp cholinergic antagonists/
- 13 (acetylcholine antagonist\$ or anticholinergic agent\$ or anti-cholinergic agent\$ or cholinergic-blocking agent\$ or cholinergic blocking agent\$ or cholinolytic\$ or anti-cholinergic\$ or anticholinergic\$ or cholinergic antagonist\$).mp.
- 14 (cholinergic adj2 block\$).mp.
- 15 or/1-14

Embase

- 1 exp spasmolytic agent/
- 2 spasmolytic\$.mp.
- 3 (anti-spasmodic\$ or antispasmodic\$ or parasympholytic\$).mp.
- 4 (mebeverine or duspatalin or spasmotalin or duphaspasmin).mp.
- 5 (pinaverium bromide or dicetel or eldicet).mp.
- 6 (otilonium bromide or octylonium or spasmomen or doralin).mp.
- 7 (cimetropium bromide or alginor).mp.
- 8 (hyoscine butyl bromide or hyoscinbutylbromide or scopolaminebutylbromide or buscapine or buscolysin or buscopan or butylscopolamine or scopolan).mp.
- 9 (trimebutin\$ or debridat or cerekinon).mp.
- 10 (scopolamine or hyoscine or scoburen or scopace or scopoderm or vorigeno or atrochin or atroquin or atroscine or oscine).mp.
- 11 ((peppermint adj2 oil\$) or (colpermin or mintec)).mp.
- 12 peppermint oil/
- 13 exp cholinergic receptor blocking agent/
- 14 (acetylcholine antagonist\$ or anticholinergic agent\$ or anti-cholinergic agent\$ or cholinergic-blocking agent\$ or cholinergic blocking agent\$ or cholinolytic\$ or anti-cholinergic\$ or anticholinergic\$ or cholinergic antagonist\$).mp.
- 15 (cholinergic adj2 block\$).mp.
- 16 or/1-15

Cinahl

- 1 exp parasympholytics/
- 2 spasmolytic\$.mp.
- 3 (anti-spasmodic\$ or antispasmodic\$ or parasympholytic\$).mp.
- 4 (mebeverine or duspatalin or spasmotalin or duphaspasmin).mp.
- 5 (pinaverium bromide or dicetel or eldicet).mp.
- 6 (otilonium bromide or octylonium or spasmomen or doralin).mp.
- 7 (cimetropium bromide or alginor).mp.
- 8 (hyoscine butyl bromide or hyoscinbutylbromide or scopolaminebutylbromide or buscapine or buscolysin or buscopan or butylscopolamine or scopolan).mp.
- 9 (trimebutin\$ or debridat or cerekinon).mp.
- 10 (scopolamine or hyoscine or scoburen or scopace or scopoderm or vorigeno or atrochin or atroquin or atroscine or oscine).mp.
- 11 ((peppermint adj2 oil\$) or (colpermin or mintec)).mp.
- 12 exp cholinergic antagonists/
- 13 (acetylcholine antagonist\$ or anticholinergic agent\$ or anti-cholinergic agent\$ or cholinergic-blocking agent\$ or cholinergic blocking agent\$ or cholinolytic\$ or anti-cholinergic\$ or anticholinergic\$ or cholinergic antagonist\$).mp.
- 14 (cholinergic adj2 block\$).mp.
- 15 or/1-14

The Cochrane Library

- #1 spasmolytic*
- #2 (anti-spasmodic* or antispasmodic* or parasympholytic*)
- #3 (mebeverine or duspatalin or spasmotalin or duphaspasmin)
- #4 (pinaverium bromide or dicetel or eldicet)
- #5 (otilonium bromide or octylonium or spasmomen or doralin)
- #6 (cimetropium bromide or alginor)
- #7 (hyoscine butyl bromide or hyoscinbutylbromide or scopolaminebutylbromide or buscapine or buscolysin or buscopan or butylscopolamine or scopolan)
- #8 (trimebutin* or debridat or cerekinon)
- #9 (scopolamine or hyoscine or scoburen or scopace or scopoderm or vorigeno or atrochin or atroquin or atroscine or oscine)
- #10 ((peppermint near/2 oil*) or (colpermin or mintec))
- #11 (acetylcholine antagonist* or anticholinergic agent* or anti-cholinergic agent* or cholinergic-blocking agent* or cholinergic blocking agent* or cholinolytic* or anti-cholinergic* or anticholinergic* or cholinergic antagonist*)
- #12 (cholinergic near/2 block*)
- #13 (#1 OR #2 OR #3 OR #4 OR #5 OR #6 OR #7 OR #8 OR #9 OR #10 OR #11 OR #12)

Antispasmodics: Adverse Drug Effects

The following search strategies were combined with the IBS filter described above.

Medline

- 1 spasmolytic\$.mp.
- 2 (anti-spasmodic\$ or antispasmodic\$ or parasympatholytic\$).mp.
- 3 (mebeverine or duspatalin or spasmotalin or duphaspasmin).mp.
- 4 (pinaverium bromide or dicetel or eldicet).mp.
- 5 (otilonium bromide or octylonium or spasmomen or doralin).mp.
- 6 (cimetropium bromide or alginor).mp.
- 7 (hyoscine butyl bromide or hyoscinbutylbromide or scopolaminebutylbromide or buscapine or buscolysin or buscopan or butylscopolamine or scopolan).mp.
- 8 (trimebutin\$ or debridat or cerekinon).mp.
- 9 (scopolamine or hyoscine or scoburen or scopace or scopoderm or vorigeno or atrochin or atroquin or atroscine or oscine).mp.
- 10 ((peppermint adj2 oil\$) or (colpermin or mintec)).mp.
- 11 (acetylcholine antagonist\$ or anticholinergic agent\$ or anti-cholinergic agent\$ or cholinergic-blocking agent\$ or cholinergic blocking agent\$ or cholinolytic\$ or anti-cholinergic\$ or anticholinergic\$ or cholinergic antagonist\$).mp.
- 12 (cholinergic adj2 block\$).mp.
- 13 or/1-10,11-12
- 14 ae.fs.
- 15 to.fs.
- 16 or/14-15
- 17 13 and 16
- 18 exp parasympatholytics/ae, to
- 19 exp cholinergic antagonists/ae, to
- 20 or/17-19

Embase

- 1 spasmolytic\$.mp.
- 2 (anti-spasmodic\$ or antispasmodic\$ or parasympatholytic\$).mp.
- 3 (mebeverine or duspatalin or spasmotalin or duphaspasmin).mp.
- 4 (pinaverium bromide or dicetel or eldicet).mp.
- 5 (otilonium bromide or octylonium or spasmomen or doralin).mp.
- 6 (cimetropium bromide or alginor).mp.
- 7 (hyoscine butyl bromide or hyoscinbutylbromide or scopolaminebutylbromide or buscapine or buscolysin or buscopan or butylscopolamine or scopolan).mp.
- 8 (trimebutin\$ or debridat or cerekinon).mp.
- 9 (scopolamine or hyoscine or scoburen or scopace or scopoderm or vorigeno or atrochin or atroquin or atroscine or oscine).mp.
- 10 ((peppermint adj2 oil\$) or (colpermin or mintec)).mp.
- 11 (acetylcholine antagonist\$ or anticholinergic agent\$ or anti-cholinergic agent\$ or cholinergic-blocking agent\$ or cholinergic blocking agent\$ or cholinolytic\$ or anti-cholinergic\$ or anticholinergic\$ or cholinergic antagonist\$).mp.
- 12 (cholinergic adj2 block\$).mp.
- 13 or/1-10,11-12
- 14 ae.fs.

- 15 to.fs.
- 16 or/14-15
- 17 13 and 16
- 18 exp spasmolytic agent/ae, to
- 19 peppermint oil/ae, to
- 20 exp cholinergic receptor blocking agent/ae, to
- 21 or/17-20

Cinahl

- 1 spasmolytic\$.mp.
- 2 (anti-spasmodic\$ or antispasmodic\$ or parasympatholytic\$).mp.
- 3 (mebeverine or duspatalin or spasmotalin or duphaspasmin).mp.
- 4 (pinaverium bromide or dicetel or eldicet).mp.
- 5 (otilonium bromide or octylonium or spasmomen or doralin).mp.
- 6 (cimetropium bromide or alginor).mp.
- 7 (hyoscine butyl bromide or hyoscinbutylbromide or scopolaminebutylbromide or buscapine or buscolysin or buscopan or butylscopolamine or scopolan).mp.
- 8 (trimebutin\$ or debridat or cerekinon).mp.
- 9 (scopolamine or hyoscine or scoburen or scopace or scopoderm or vorigeno or atrochin or atroquin or atroscine or oscine).mp.
- 10 ((peppermint adj2 oil\$) or (colpermin or mintec)).mp.
- 11 (acetylcholine antagonist\$ or anticholinergic agent\$ or anti-cholinergic agent\$ or cholinergic-blocking agent\$ or cholinergic blocking agent\$ or cholinolytic\$ or anti-cholinergic\$ or anticholinergic\$ or cholinergic antagonist\$).mp.
- 12 (cholinergic adj2 block\$).mp.
- 13 or/1-10,11-12
- 14 ae.fs.
- 15 13 and 14
- 16 exp parasympatholytics/ae
- 17 exp cholinergic antagonists/ae
- 18 or/15-17

The Cochrane Library

- #1 spasmolytic*
- #2 (anti-spasmodic* or antispasmodic* or parasympatholytic*)
- #3 (mebeverine or duspatalin or spasmotalin or duphaspasmin)
- #4 (pinaverium bromide or dicetel or eldicet)
- #5 (otilonium bromide or octylonium or spasmomen or doralin)
- #6 (cimetropium bromide or alginor)
- #7 (hyoscine butyl bromide or hyoscinbutylbromide or scopolaminebutylbromide or buscapine or buscolysin or buscopan or butylscopolamine or scopolan)
- #8 (trimebutin* or debridat or cerekinon)
- #9 (scopolamine or hyoscine or scoburen or scopace or scopoderm or vorigeno or atrochin or atroquin or atroscine or oscine)
- #10 ((peppermint near/2 oil*) or (colpermin or mintec))
- #11 (acetylcholine antagonist* or anticholinergic agent* or anti-cholinergic agent* or cholinergic-blocking agent* or cholinergic blocking agent* or cholinolytic* or anti-cholinergic* or anticholinergic* or cholinergic antagonist*)
- #12 (cholinergic near/2 block*)
- #13 (#1 OR #2 OR #3 OR #4 OR #5 OR #6 OR #7 OR #8 OR #9 OR #10 OR #11 OR

- #12)
- #14 (#13 AND **IBS filter**)
- #15 ((adverse*) near/2 (effect* OR reaction* OR event*)):ti,ab,kw
- #16 side effect*:tw,ab,ti
- #17 toxic*:ti,ab,kw
- #18 drug* near/2 safe*:ti,ab,kw
- #19 (complication* or tolerability):ti,ab,kw
- #20 (#15 OR #16 OR #17 OR #18 OR #19)
- #21 (#14 AND #20)

Antidepressants

The following search strategies were combined with the IBS and exclusions filters described above. They were limited by RCT and SR study design filters.

Medline

- 1 exp antidepressive agents/
- 2 (antidepressant\$ or antidepressive\$).mp.
- 3 exp serotonin uptake inhibitors/
- 4 or/1-3

Embase

- 1 exp serotonin uptake inhibitor/
- 2 exp tricyclic antidepressant agent/
- 3 1 or 2

Cinahl

- 1 exp Antidepressive Agents/
- 2 (antidepressant\$ or antidepressive\$).mp.
- 3 exp Serotonin Uptake Inhibitors/
- 4 or/1-3

The Cochrane Library

- #1 (selective serotonin reuptake inhibitor* or serotonin reuptake inhibitor* or serotonin uptake inhibitor* or ssri*):ti,kw,ab
- #2 (tricyclic*):ti,kw,ab
- #3 (antidepressant* or antidepressive*):ti,kw,ab
- #4 (#1 OR #2 OR #3)

Cognitive Behavioural Therapy (CBT)

The following search strategies were combined with the IBS and exclusions filters described above. They were limited by RCT and SR study design filters.

Medline

- 1 cognitive therapy/
- 2 (cogniti\$ adj (behavio\$ or therap\$)).ti,ab.
- 3 (cogniti\$ adj (technique\$ or restructur\$ or challenge\$)).ti,ab.
- 4 (behavi\$ adj therapy).ti,ab.
- 5 behavior therapy/
- 6 or/1-5

Embase

- 1 cognitive therapy/
- 2 (cogniti\$ adj (behavio\$ or therap\$)).ti,ab.
- 3 (cogniti\$ adj (technique\$ or restructur\$ or challenge\$)).ti,ab.
- 4 (behavi\$ adj therapy).ti,ab.
- 5 behavior therapy/
- 6 or/1-5

Cinahl

- 1 cognitive therapy/
- 2 (cogniti\$ adj (behavio\$ or therap\$)).ti,ab.
- 3 (cogniti\$ adj (technique\$ or restructur\$ or challenge\$)).ti,ab.
- 4 (behavi\$ adj therapy).ti,ab.
- 5 behavior therapy/
- 6 or/1-5

Psycinfo

- 1 (cogniti\$ adj (behavio\$ or therap\$)).ti,ab.
- 2 (cogniti\$ adj (technique\$ or restructur\$ or challenge\$)).ti,ab.
- 3 cognitive behavior therapy/
- 4 exp cognitive techniques/
- 5 behavior therapy/
- 6 (behavi\$ adj therapy).ti,ab.
- 7 or/1-6

The Cochrane Library

- #1 (cogniti* NEAR behavio*):ti,kw,ab
- #2 (cogniti* NEAR therap*):ti,kw,ab
- #3 (#1 OR #2)
- #4 (cogniti* NEAR technique*):ti,kw,ab
- #5 (cogniti* NEAR restructur*):ti,kw,ab
- #6 (cogniti* NEAR challeng*):ti,kw,ab
- #7 (#4 or #5 or #6)
- #8 (behavi* next therapy):kw,ti,ab
- #9 (#3 OR #7 OR #8)

Hypnotherapy / Other Psychiatric Interventions

The following search strategies were combined with the IBS and exclusions filters described above. They were limited by RCT and SR study design filters.

Medline

- 1 hypnosis/
- 2 hypnotherapy.ti,ab.
- 3 ((psychodynamic or interpersonal) adj therapy).ti,ab.
- 4 psychotherapy.ti,ab.
- 5 exp psychotherapy/
- 6 relaxation techniques/
- 7 stress, psychological/th
- 8 (stress adj2 (treat\$ or therap\$ or manag\$)).ti,ab.
- 9 (relax\$ adj2 (technique\$ or manag\$)).ti,ab.
- 10 or/1-9

Embase

- 1 hypnosis/
- 2 hypnotherapy.ti,ab.
- 3 ((psychodynamic or interpersonal) adj therapy).ti,ab.
- 4 psychotherapy.ti,ab.
- 5 exp psychotherapy/
- 6 relaxation training/
- 7 "stress management"/
- 8 (stress adj2 (treat\$ or therap\$ or manag\$)).ti,ab.
- 9 (relax\$ adj2 (technique\$ or manag\$)).ti,ab.
- 10 or/1-9

Cinahl

- 1 hypnosis/
- 2 hypnotherapy.ti,ab.
- 3 ((psychodynamic or interpersonal) adj therapy).ti,ab.
- 4 psychotherapy.ti,ab.
- 5 exp psychotherapy/
- 6 exp relaxation techniques/
- 7 Stress Management/
- 8 exp Stress/
- 9 (stress adj2 (treat\$ or therap\$ or manag\$)).ti,ab.
- 10 (relax\$ adj2 (technique\$ or manag\$)).ti,ab.
- 11 or/1-11

Psycinfo

- 1 exp hypnosis/
- 2 exp Hypnotherapy/
- 3 exp relaxation therapy/
- 4 (hypnosis or hypnotherapy).ti,ab.
- 5 (relax\$ adj2 (technique\$ or manag\$)).ti,ab.

- 6 exp Stress Management/
- 7 (stress adj2 (treat\$ or therap\$ or manag\$)).ti,ab.
- 8 exp psychotherapy/
- 9 ((psychodynamic or interpersonal) adj therapy).ti,ab.
- 10 psychotherapy.ti,ab.
- 11 or/1-11

The Cochrane Library

- #1 (hypnosis or hypnotherapy):ti,ab,kw
- #2 (psychodynamic next therapy):ti,ab,kw
- #3 (interpersonal next therapy):ti,ab,kw
- #4 psychotherapy:kw,ti,ab
- #5 stress near/2 (treat* or therap* or manag*):ti,ab,kw
- #6 relax* near/2 (technique* or manag*):kw,ti,ab
- #7 (#1 OR #2 OR #3 OR #4 OR #5 OR #6)

Biofeedback

The following search strategies were combined with the IBS and exclusions filters described above. They were limited by RCT and SR study design filters. This search was done in combination with those for aloe vera and reflexology.

Medline

- 1 aloe/
- 2 aloe\$.mp.
- 3 1 or 2
- 4 exp "biofeedback (psychology)"/
- 5 (feedback adj psych\$).mp.
- 6 biofeedback.mp.
- 7 or/4-6
- 8 exp massage/
- 9 reflexology.mp.
- 10 reflex zone\$.mp.
- 11 zone\$ therap\$.mp.
- 12 (shiatsu or shiatzu).mp.
- 13 exp acupressure/
- 14 or/8-13
- 15 3 or 7 or 14

Embase

- 1 aloe/
- 2 aloe vera/
- 3 aloe\$.mp.
- 4 psychophysiology/
- 5 (feedback adj psych\$).mp.
- 6 biofeedback.mp.
- 7 massage/
- 8 reflexology/
- 9 reflexology.mp.
- 10 reflex zone\$.mp.
- 11 zone\$ therap\$.mp.
- 12 (shiatsu or shiatzu).mp.
- 13 exp Acupressure/
- 14 or/1-13

Cinahl

- 1 aloe/
- 2 aloe\$.mp.
- 3 1 or 2
- 4 biofeedback/
- 5 (feedback adj psych\$).mp.
- 6 biofeedback.mp.
- 7 or/4-6
- 8 massage/
- 9 reflexology/

- 10 reflexology.mp.
- 11 reflex zone\$.mp.
- 12 zone\$ therap\$.mp.
- 13 (shiatsu or shiatzu).mp.
- 14 exp Acupressure/
15 or/8-14
- 16 3 or 7 or 15

Amed

- 1 exp Aloe/
2 aloe\$.mp.
- 3 exp biofeedback/
4 (feedback adj psych\$.mp.
- 5 biofeedback.mp.
- 6 exp reflexology/
7 massage/
8 acupressure/
9 reflex zone\$.mp.
- 10 zone\$ therap\$.mp.
- 11 (shiatsu or shiatzu).mp.
- 12 reflexology.mp.
- 13 or/20-31
- 14 19 and 32

The Cochrane Library

- #1 aloe* OR biofeedback OR (feedback NEXT psych*)
- #2 massage or acupressure or reflexology or (reflex next zone*) or (zone\$ next therap*) or shiatsu or shiatzu
- #3 (#1 OR #2)

Patient Information, Psychosocial Interventions, Support Groups

The following search strategies were combined with the exclusions filter described above.

Medline

- 1 ((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\$)).mp.
- 2 (information adj need\$).mp.
- 3 (information adj requirement\$).mp.
- 4 (information adj support\$).mp.
- 5 (patient\$ adj information\$).mp.
- 6 (service\$ adj2 acceptab\$).mp.
- 7 (service\$ adj2 unacceptab\$).mp.
- 8 psycho?social.mp.
- 9 (patient\$ adj (complan\$ or adheren\$ or concordan\$)).mp.
- 10 patient education/
- 11 exp attitude to health/
- 12 exp patient acceptance of health care/
- 13 "quality of life"/
- 14 self-help groups/
- 15 ((self-help or support) adj2 (group\$ or organi?ation\$ or network\$)).ti,ab.
- 16 (peer\$ adj support).ti,ab.
- 17 qualitative research/
- 18 exp interviews/
- 19 questionnaires/
- 20 or/1-19
- 21 irritable bowel syndrome.ti,ab.
- 22 IBS.mp.
- 23 irritable bowel syndrome/
- 24 or/21-23
- 25 20 and 24

Embase

- 1 ((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\$)).mp.
- 2 (information adj need\$).mp.
- 3 (information adj requirement\$).mp.
- 4 (information adj support\$).mp.
- 5 (patient\$ adj information\$).mp.
- 6 (service\$ adj2 acceptab\$).mp.
- 7 (service\$ adj2 unacceptab\$).mp.
- 8 psycho?social.mp.
- 9 (patient\$ adj (complan\$ or adheren\$ or concordan\$)).mp.
- 10 patient education/
- 11 exp attitude/
- 12 exp patient attitude/
- 13 "Quality of Life"/

- 14 Self Help/
- 15 support group/
- 16 ((self-help or support) adj2 (group\$ or organi?ation\$ or network\$)).ti,ab.
- 17 (peer\$ adj support).ti,ab.
- 18 qualitative research/
- 19 exp Interview/
- 20 exp Questionnaire/
- 21 or/1-20
- 22 irritable bowel syndrome.ti,ab.
- 23 IBS.mp.
- 24 irritable colon/
- 25 or/22-24
- 26 21 and 25

Cinahl

- 1 ((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\$)).mp.
- 2 (information adj need\$).mp.
- 3 (information adj requirement\$).mp.
- 4 (information adj support\$).mp.
- 5 (patient\$ adj information\$).mp.
- 6 (service\$ adj2 acceptab\$).mp.
- 7 (service\$ adj2 unacceptab\$).mp.
- 8 psycho?social.mp.
- 9 (patient\$ adj (complan\$ or adheren\$ or concordan\$)).mp.
- 10 patient education/
- 11 exp attitude to health/
- 12 "Quality of Life"/
- 13 support groups/
- 14 ((self-help or support) adj2 (group\$ or organi?ation\$ or network\$)).ti,ab.
- 15 (peer\$ adj support).ti,ab.
- 16 exp qualitative studies/
- 17 exp Interviews/
- 18 focus groups/
- 19 exp Questionnaires/
- 20 or/1-19
- 21 irritable bowel syndrome.ti,ab.
- 22 IBS.mp.
- 23 irritable bowel syndrome/
- 24 or/21-23
- 25 20 and 24

The Cochrane Library

- #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*)
- #2 information NEXT need*
- #3 information NEXT requirement*
- #4 information NEXT support*

- #5 service* near/2 acceptab*
- #6 service* near/2 unacceptab*
- #7 (patient* next (complan* or adheren* or concordan*))
- #8 (psycho-social OR psychosocial) OR (psycho NEXT social)
- #9 patient* NEXT (education or acceptance)
- #10 patient* next information*
- #11 quality of life
- #12 (self-help or (self next help) or support) next/2 (group* or organi*ation* or network*)
- #13 qualitative or interview* or questionnaire* or (focus next group)
- #14 (irritable bowel syndrome or IBS):kw,ti,ab
- #15 (#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)
- #16 (#14 AND #15)

Reflexology

See Biofeedback

Acupuncture

The following search strategies were combined with the IBS filter described above.

Medline

- 1 acupuncture/
- 2 exp acupuncture therapy/
- 3 acupuncture\$.mp.
- 4 or/1-3

Embase

- 1 exp acupuncture/
- 2 acupuncture\$.mp.
- 3 1 or 2

Cinahl

- 1 exp acupuncture/
- 2 acupuncture\$.mp.
- 3 1 or 2

Amed

- 1 acupuncture/
- 2 exp acupuncture therapy/
- 3 acupuncture\$.mp.
- 4 or/1-3

The Cochrane Library

- #1 (acupunctur*):ti,kw,ab
- #2 (electro?acupunctur* or acupressure or meridian* or moxibustion):ti,ab,kw
- #3 (#1 OR #2)

Herbal Medicines

The following search strategies were combined with the IBS and exclusions filters described above. They were limited by RCT and SR study design filters.

Medline

- 1 exp phytotherapy/
- 2 exp plant preparations/
- 3 or/1-2

Embase

- 1 exp phytotherapy/
- 2 exp medicinal plant/
- 3 exp plant extract/
- 4 exp herbal medicine/
- 5 or/1-4

Cinahl

- 1 exp medicine, herbal/
- 2 exp plants, medicinal/
- 3 exp plant extracts/
- 4 or/1-3

Amed

- 1 exp plants, medicinal/
- 2 exp plant extracts/
- 3 or/1-2

The Cochrane Library

- #1 (plant* NEAR/2 extract*):ti,ab,kw
- #2 (plant* NEAR/2 preparation*):ti,ab,kw
- #3 phytotherapy:kw,ti,ab
- #4 (herb* NEAR/2 medic*):ti,ab,kw
- #5 (#1 OR #2 OR #3 OR #4)

Patient Information

See Psychosocial / Support Groups

Cost-effectiveness

Searches were performed on the MEDLINE database to determine the cost-effectiveness of tests to identify alternative diagnoses in patients meeting the diagnostic criteria for IBS who do not have any “red-flag” symptoms using the following search strategy. Specific searches were also performed on the NHS EED database using the MeSH terms for inflammatory bowel disease (exploded to include Crohn’s disease and ulcerative colitis), lactose intolerance and coeliac disease. Free-text searching on the NHS EED database was explored but did not yield any further relevant papers.

Medline

- 1 colitis.mp.
- 2 crohn\$.mp.
- 3 inflammatory bowel disease.mp.
- 4 celiac.mp.
- 5 coeliac.mp.
- 6 divertic\$.mp.
- 7 or/1-6
- 8 exp colitis/
- 9 exp inflammatory bowel diseases/
- 10 exp malabsorption syndromes/
- 11 or/8-10
- 12 7 or 11
- 13 cost-benefit analysis/
- 14 cost effectiveness.ti,ab.
- 15 cost benefit.ti,ab.
- 16 cost utility.ti,ab.
- 17 cost per QALY.ti,ab.
- 18 cost per quality adjusted life year.ti,ab.
- 19 economic evaluation.ti,ab.
- 20 economic appraisal.ti,ab.
- 21 or/13-20
- 22 letter.pt.
- 23 editorial.pt.
- 24 historical article.pt.
- 25 22 or 23 or 24
- 26 21 not 25
- 27 animal/
- 28 human/
- 29 27 not (27 and 28)
- 30 26 not 29
- 31 12 and 30
- 32 limit 31 to english language

Searches were performed on the MEDLINE database to assess the cost-effectiveness of interventions used in the management of IBS using the following search strategy. Specific searches were also performed on the NHS EED database using the MeSH term for irritable bowel syndrome which yielded two

further papers. Free-text searching on the NHS EED database was explored but did not yield any further relevant papers.

Medline

- 1 ((intestin\$ or gastrointestin\$ or colon\$ or bowel\$) adj2 (motility or sensitiv\$ or functional or irritable or irritat\$ or gas\$ or spastic\$ or unstable or instability or spasm\$)).mp.
- 2 flatus.mp.
- 3 irritable bowel syndrome.mp.
- 4 IBS.mp.
- 5 ((faecal or fecal) adj2 incontinen\$).mp.
- 6 dyspepsia/
- 7 exp gastrointestinal motility/
- 8 flatulence/
- 9 irritable bowel syndrome/
- 10 colonic diseases, functional/
- 11 fecal incontinence/
- 12 or/1-11
- 13 (diarrhoea or diarrhea).mp.
- 14 diarrhea/
- 15 constipat\$.mp.
- 16 constipation/
- 17 or/13-16
- 18 12 or 17
- 19 cost-benefit analysis/
- 20 cost effectiveness.ti,ab.
- 21 cost benefit.ti,ab.
- 22 cost utility.ti,ab.
- 23 cost per QALY.ti,ab.
- 24 cost per quality adjusted life year.ti,ab.
- 25 economic evaluation.ti,ab.
- 26 economic appraisal.ti,ab.
- 27 or/19-26
- 28 letter.pt.
- 29 editorial.pt.
- 30 historical article.pt.
- 31 28 or 29 or 30
- 32 27 not 31
- 33 animal/
- 34 human/
- 35 33 not (33 and 34)
- 36 32 not 35
- 37 18 and 36
- 38 limit 37 to english language