Guideline topic: GI Blood Loss

General comments

Search coverage

Patient searches *(run on 23 February 2005)*

Databases covered: ***Medline, Embase, CINAHL, PsycInfo*** *Dates covered:2000-2005*

Total hits: 2091 *Pre-sifted result: 125*

Guidelines *(run on)*

The guideline search used the patient stem.

Databases covered:

Total hits:

Guidelines evaluated using AGREE instrument***:***

Systematic reviews: *Search was ran 10 February 2006. The main stem (see below) was combined with systematic reviews stem for each database (Available from SIGN website).*

Databases covered: Medline, Embase, CINAHL, Psycinfo and Cochrane. *Dates covered:* 2000-06

Also various websites:
Agency for Health Care Research and Quality (AHRQ) http://www.ahrq.gov
ASERNIP-S http://www.racs.edu.au/open/asernip-s.htm
Canadian Medical Association http://mdm.ca/cpgsnew/cpgs/index.asp
Centre for Clinical Effectiveness (Australia)
http://www.med.monash.edu.au/healthservices/cce/
Health Technology Assessment http://www.hta.nhsweb.nhs.uk/
NHS Centre for Reviews and Dissemination
http://www.york.ac.uk/inst/crd/welcome.htm
NHS Quality Improvement Scotland http://www.nhshealthquality.org
National Institute for Clinical Excellence (NICE) http://www.nice.org.uk/
National Electronic Library for Health
http://rms.nelh.nhs.uk/guidelinesfinder/
National Guideline Clearinghouse http://www.guidelines.gov/index.asp
National Health and Medical Research Council (NHMRC)
http://www.health.gov.au/nhmrc/publications/index.htm
New Zealand Guidelines Group http://www.nzgg.org.nz/
Total hits: 1423 *Pre-sifted result: 193* *Sifted result:*

RCTs

KQ1_2: search ran July 2006
KQ4: Search ran July 2006
KQ5AD: search ran August 2006
KQ5C_8_20A_22G: Search ran June 2006
KQ6: Search ran October 2006
KQ9: Search ran August 2006
KQ9_25: Search ran August 2006 (same search as KQ9, but resifted for KQ25)
KQ10: Search ran July 2006
KQ12: Search ran October 2006
KQ12 REV_RCT_OBS 95-99: Search ran February 2007
KQ13: Search ran October 2006
KQ20C: Search ran October 2006
KQ20D: Search ran October 2006
KQ21: Search ran August 2006
KQ22: Search ran November 2006
KQ24A_26A: Search ran November 2006
KQ24B: Search ran August 2006
KQ26B: Search ran July 2006
KQ26B 99-01:Search ran January 2007
KQ26C: Search ran December 2006

Databases covered:	*Dates covered:*
Medline, Embase, CINAHL and The Cochrane Register of Controlled Trials (and PsycInfo where appropriate)	*KQ1_2: 2003-06* *KQ4: 2000-06* *KQ5AD: 2000-06* *KQ5C_8_20A_22G: 2000-06* *KQ6: 2000-06* *KQ9: 2000-06* *KQ9_25: 2000-06* *KQ10: 2000-06* *KQ12: 2000-06* *KQ12 REV_RCT_OBS: 1995-99* *KQ13: 2000-06* *KQ20C: 2000-06* *KQ20D: 2000-06* *KQ21: 2000-06* *KQ22: 2000-06* *KQ24A_26A: 2000-06* *KQ24B: 1990-2006* *KQ26B: 2002-06* *KQ26B: 1999-01* *KQ26C: 2000-06*

Total hits:	*Pre-sifted result:*	*Sifted result:*
KQ1_2: 2315	**KQ1_2:** 142	**KQ1_2:** 18
KQ4: 2857	**KQ4:** 15	**KQ4:** 0
KQ5AD: 3231	**KQ5AD:** 102	**KQ5AD:** 0
KQ5C_8_20A_22G: 1436	**KQ5C_8_20A_22G:** 286	**KQ5C_8_20A_22G:** 20
KQ6: 905	**KQ6:** 13	**KQ6:** 0
KQ9: 1002	**KQ9:** 17	**KQ9:** 6
KQ9_25: 1002	**KQ9_25:** 13	**KQ9_25:** 2
KQ10: 1033	**KQ10:** 79	**KQ10:** 3
KQ12: 751	**KQ12:** 80	**KQ12:** 5
KQ12 Rev_RCT_OBS 95-99: 862	**KQ12 Rev_RCT_OBS 95-99:** 149	**KQ12 Rev_RCT_OBS 95-99:** 10
KQ13: 1630	**KQ13:** 95	**KQ13:** 8
KQ20C: 353	**KQ20C:** 275	**KQ20C:** 0
KQ20D: 44	**KQ20D:** 29	**KQ20D:** 0
KQ21: 1007	**KQ21:** 311	**KQ21:** 5
KQ22: 3836	**KQ22:** 398	**KQ22:** 13
KQ24A_26A: 1159	**KQ24A_26A:** 266	**KQ24A_26A:** 87
KQ24B: 862	**KQ24B:** 30	**KQ24B:** 8
KQ26B: 3687	**KQ26B:** 456	**KQ26B:** 54
KQ26B 99-01: 1811	**KQ26B 99-01:** 217	**KQ26B 99-01:** 5
KQ26C: 3133	**KQ26C:** 385	**KQ26C:** 10

Observational studies

KQ1_2: search ran July 2006
KQ4: Search ran July 2006
KQ5AD: Search ran August 2006
KQ5BC RCT_OBS 2003-06: Search ran January 2007
KQ6: Search ran October 2006
KQ9: Search ran August 2006
KQ10: Search ran July 2006
KQ12: Search ran October 2006
KQ12 RCT_OBS: Search ran February 2007. This was the original search for KQ12, plus some additional terms. It is this strategy this is detailed below.
KQ13: Search ran October 2006
KQ18 RCT_OBS: Search ran December 2006
KQ21: Search ran August 2006
KQ22: Search ran January 2007
KQ24B: Search ran August 2006
KQ9_25: (same search as KQ9, but resifted for KQ25): Search ran August 2006
KQ26B: Search ran February 2007

Databases covered:		*Dates covered:*
Medline, Embase, CINAHL (and PsycInfo where appropriate)		*KQ1_2: 2003-06* *KQ4: 2000-06* *KQ5AD: 2000-06* *KQ5BC RCT_OBS: 2003-06* *KQ6: 2000-06* *KQ9: 2000-06* *KQ10: 2000-06* *KQ12: 2000-06* *KQ12_top_up: 00-06* *KQ13: 2000-06* *KQ18 RCT_OBS: 2000-06* *KQ21: 2000-06* *KQ22: 2000-06* *KQ24B: 1990-06* *KQ9_25: 2000-06* *KQ26B: 1999-2007*
Total hits:	*Pre-sifted result:*	*Sifted result:*
KQ1_2: 3265	**KQ1_2:** 306	**KQ1_2:** 48
KQ4: 2239	**KQ4:** 182	**KQ4:** 10
KQ5AD: 3303	**KQ5AD:** 279	**KQ5AD:** 2
KQ5BC RCT_OBS: 3026	**KQ5BC RCT_OBS:** 247	**KQ5BC RCT_OBS:** 2
KQ6: 616	**KQ6:** 10	**KQ6:** 0
KQ9: 1515	**KQ9:** 80	**KQ9:** 9
KQ10: 1253	**KQ10:** 175	**KQ10:** 2
KQ12: 619	**KQ12:** 102	**KQ12:** 28
KQ12 top_up RCT_OBS: 1116	**KQ12 top_up RCT_OBS:** 16	**KQ12 top_up RCT_OBS:** 3
KQ13: 2142	**KQ13:** 101	**KQ13:** 2
KQ18 RCT_OBS: 2080	**KQ18 RCT_OBS:** 368	**KQ18 RCT_OBS:** 73
KQ21:	**KQ21:** 31	**KQ21:**
KQ22: 1373	**KQ22:** 172	**KQ22:** 5
KQ24B: 1190	**KQ24B:** 69	**KQ24B:**
KQ25: 1515	**KQ25:** 80	**KQ25:** 9
KQ26B: 7147	**KQ26B:** 299	**KQ26B:** 11

Diagnostic studies

Databases covered:		*Dates covered:*
Total hits:	*Pre-sifted result:*	*Sifted result:*

Economic studies: The main stem was used.

Databases covered: NEED database		*Dates covered: 1996-2006*
Total hits: 109	*Pre-sifted result:*	*Sifted result:*

No Filter: Some searches were not limited to a particular publication type (i.e. no search filter was used). This was mainly when the search did not yield many results, or when the search would be too limited by using a study search filter.

KQ3: Search ran June 2006
KQ4: Search ran January 2007
KQ7: Search ran October 2006
KQ11 2003-06: Search ran November 2006
KQ11 1995-02: Search ran February 2007
KQ14 2000-06: Search ran November 2006
KQ14 1990-99: Search ran December 2006
KQ16_17: Search ran November 2006
KQ19: Search ran January 2007
KQ20CD: Search ran November 2006
KQ21 (timing only): Search ran December 2006
KQ23: Search ran December 2006

Databases covered:	*Dates covered:*
Medline, Embase, CINAHL and The Cochrane Register of Controlled Trials (and PsycInfo where appropriate)	KQ3: 2000-06 KQ4: 1990-99 KQ7: 2000-06 KQ11: 2003-06 KQ11: 1995-02 KQ14: 2000-06 KQ14: 1990-99 KQ16_17: 2000-06 KQ19: 2000-06 KQ20CD: 2000-06 KQ21 (timing): 2000-06 KQ23: 2000-06

Total hits:	*Pre-sifted result:*	*Sifted result:*
KQ3: 1978	**KQ3:** 131	**KQ3:** 18
KQ4: 5658	**KQ4:** 356	**KQ4:** 4
KQ7: 1764	**KQ7:** 73	**KQ7:**
KQ11 03-06: 5582	**KQ11 03-06:** 370	**KQ11 03-06:** 20
KQ11 95-02: 5161	**KQ11 95-02:** 301	**KQ11 95-02:** 17
KQ14 00-06: 664	**KQ14 00-06:** 89	**KQ14 00-06:** 50
KQ14 90-99: 543	**KQ14 90-99:** 55	**KQ14 90-99:** 20
KQ16_17: 3914	**KQ16_17:** 210	**KQ16_17:** 17
KQ19: 895	**KQ19:** 85	**KQ19:** 4
KQ20CD: 904	**KQ20CD:** 84	**KQ20CD:** 1
KQ21: 556	**KQ21:** 21	**KQ21:** 3
KQ23: 342	**KQ23:** 26	**KQ23:**

Update Searches: After the National Meeting, update searches were run for any papers that may have been published since our original searches.

Databases covered: Medline, Embase, cinahl, psycinfo, The Cochrane Library	*Dates covered: 2006-07*

Total hits:	*Pre-sifted hits:*	*Sifted result:*
Reviews: 459	**Reviews:** 43	**Reviews:**
RCTs: 2140	**RCTs:** 107	**RCTs:**

Supplementary search: In response to National Meeting comments, the group wanted to look at the evidence regarding pseudomembranous colitis associated with antiobitc use in this group of patients. The results for KQ21 were resifted for anything relevant, and another very specific search was run.

Databases covered: Medline, Embase, cinahl,, The Cochrane Library	*Dates covered: 2000-07*
NoF: 10	

Supplementary search: In response to National Meeting comments, the group wanted to look at the evidence regarding the value of undertaking endoscopy at 4 weeks to check ulcer healing.

Databases covered: Medline, Embase, cinahl,, The Cochrane Library	*Dates covered: 2000-07*
NoF: 24	

Supplementary search: In response to National Meeting comments, the group wanted to look at the evidence regarding the use of PPIs and HP eradication after oversewing of peptic ulcers

Databases covered: Medline, Embase, cinahl,, The Cochrane Library	*Dates covered: 2000-07*
NoF: 22	

Search strategies

The following are listings of the main Medline strategies used for this guideline. All conventions and symbols are from the Ovid implementation of Medline. Strategies used in other databases were substantially the same, though different terminology may have been used to take account of different thesaurii used in non-Medline databases. Search filters were added to identify studies of a particular type (guideline, systematic review, etc.) Listings of the search filters used by SIGN can be found on the SIGN Web site.

Patient stem:

1. exp Gastrointestinal Hemorrhage/
2. (hematemesis or haematemesis).tw.
3. (melen$ or melaen$).tw.
4. exp Endoscopy, Gastrointestinal/
5. exp "Esophageal and Gastric Varices"/
6. ((esophag$ or oesophag$ or gastric) adj3 (varice$ or varix)).tw.
7. ((fecal or faecal) adj3 (bleed$ or blood)).tw.
8. exp Occult Blood/
9. ((GI or gastric or gastrointestin$ or gastro-intestin$ or varice$ or varix or ulcer) adj3 (bleed$ or blood or lesion or hemorrhag$ or haemorrhag$ or rebleed$)).tw.
10. or/1-9

Main Stem Medline

1. exp Gastrointestinal Hemorrhage/
2. (hemateme$ or haemateme$ or hematochezi$ or haematochez$).tw.
3. (melen$ or melaen$).tw.
4. exp Endoscopy, Gastrointestinal/
5. (colonoscop$ or coloscop$ or duodenoscop$ or gastroscop$ or proctoscop$).tw.
6. ((esophag$ or oesophag$ or gastric) adj3 (varice$ or varix)).tw.
7. ((fecal or faecal) adj3 (bleed$ or blood)).tw.
8. exp occult blood/
9. ((GI or stomach$ or gastric or gastrointestin$ or gastro-intestin$ or varice$ or varix or ulcer) adj3 (endoscop$ or bleed$ or blood or lesion or hemorrhag$ or haemorrhag$ or rebleed$)).tw.
10. ((occult$ or colon$ or obscur$) adj3 (endoscop$ or bleed$ or blood or lesion or hemorrhag$ or haemorrhag$ or rebleed$)).tw.

11. ((duod$ or oesoph$ or esoph$) adj3 (endoscop$ or bleed$ or blood or lesion or hemorrhag$ or haemorrhag$ or rebleed$)).tw.
12. exp "Esophageal and Gastric Varices"/
13. or/1-12

KQ1&2
1. exp risk assessment/ or exp risk factors/
2. exp "Referral and Consultation"/
3. exp emergency medical services/ or exp triage/
4. refer$.tw.
5. ((high$ or low$ or great$ or less) adj3 risk$).tw.
6. (urgent$ or immediat$).tw.
7. exp Patient Discharge/
8. triag$.tw.
9. or/1-8
10. exp hematemesis/ or exp melena/
11. (haemateme$ or hemateme$ or melen$).tw.
12. exp Shock/
13. shock$.tw.
14. age factors/
15. (age$ or older$ or elder$).tw.
16. Comorbidity/
17. comorbid$.tw.
18. exp Cardiovascular Diseases/
19. ((cardi$ or vascula$ or heart$) adj2 (diseas$ or cond$)).tw.
20. exp Liver Diseases/
21. exp Aspirin/
22. (aspirin$ or acetylsal$).tw.
23. (liver adj2 (disease$ or dysfun$)).tw.
24. exp Warfarin/
25. warfarin$.tw.
26. exp Serotonin Uptake Inhibitors/
27. (serotonin$ adj2 (inhib$ or uptak$)).tw.
28. exp Anti-Inflammatory Agents, Non-Steroidal/
29. nsaid$.tw.
30. (non-steroid$ adj2 anti-inflam$).tw.
31. Steroids/
32. steroid$.tw.
33. exp Hemoglobins/
34. hb.tw.
35. exp Urea/
36. urea.tw.
37. Creatinine/
38. creatinin$.tw.
39. exp Kidney Diseases/
40. ((kidney or renal) adj2 (disease$ or insufficien$ or failur$ or function$)).tw.
41. or/10-40
42. 9 or 41

KQ3 – SCORING SYSTEM
1. exp Triage/
2. triag$.tw.
3. exp health status indicators/ or exp "severity of illness index"/
4. exp trauma severity indices/
5. rockal$.mp.
6. blatchford$.mp.
7. (scor$ adj3 (system or clinical or risk or progno$ or sever$)).mp.
8. or/1-7

KQ4 – MODEL OF CARE
1. exp *patient care management/ or exp patient care team/

2. ((patient$ or health or medical) adj2 team).tw.
3. exp "Delivery of Health Care"/
4. exp Hospitalization/
5. exp hospital mortality/ or exp survival rate/
6. (Admission$ adj2 rate$).tw.
7. (case adj2 fatal$).tw.
8. exp Emergency Medical Services/
9. exp Hospital Units/
10. triage.tw.
11. exp models, organizational/
12. exp Hospital Departments/
13. exp Great Britain/ep [Epidemiology]
14. exp "Referral and Consultation"/
15. ((special$ or dedicat$ or bleed$ or haemorrhag$) adj3 (team$ or unit$ or service)).tw.
16. or/1-15

KQ5AD – PRIMARY CARE
1. exp patient care management/ or exp primary health care/
2. exp "Referral and Consultation"/
3. exp Ambulatory Care/
4. (primar$ adj2 (care$ or healthcare)).tw.
5. (outpatient$ or ambulat$).tw.
6. exp Family Practice/
7. (gp or general pract$).tw.
8. (follow-up or follow up).tw.
9. exp Critical Pathways/
10. ((clinical or critical or patient$) adj2 (pathwa$ or protoc$)).tw.
11. exp Ambulatory Surgical Procedures/
12. or/1-11

KQ5C_8_20A_22G PPI
1. exp Proton Pumps/
2. (pump adj2 inhibit$).tw.
3. ppi.tw.
4. exp Benzimidazoles/
5. exp sulfoxides/ or omeprazole/
6. (proton adj2 inhibit$).tw.
7. omeprazole.tw.
8. lansoprazole.tw.
9. pantoprazole.tw.
10. rabeprazole.tw.
11. esomeprazole.tw.
12. or/1-11

KQ5BC OMISSION PPI
1. exp Anti-Inflammatory Agents, Non-Steroidal/
2. nsaid$.tw.
3. ((nonsteroid$ or non steroid$ or non-steroid$) adj2 (anti-inflam$ or antiinflam$ or anti inflam$)).tw.
4. exp Aspirin/
5. (acetyl$ or aspirin$).tw.
6. exp Serotonin Uptake Inhibitors/
7. SSRI$.tw.
8. (serotonin$ adj2 (reuptake$ or uptake$)).tw.
9. exp Warfarin/
10. (warfarin$ or coumadin$).tw.
11. exp Proton Pumps/
12. (pump adj2 inhibit$).tw.
13. ppi.tw.
14. exp Benzimidazoles/
15. exp sulfoxides/ or omeprazole/

16. (proton adj2 inhibit$).tw.
17. omeprazole.tw.
18. lansoprazole.tw.
19. pantoprazole.tw.
20. rabeprazole.tw.
21. esomeprazole.tw.
22. or/1-21

KQ6 – FLUID RESUCCITATION

1. exp Fluid Therapy/
2. exp organ preservation solutions/ or exp rehydration solutions/
3. exp Isotonic Solutions/
4. ((fluid$ or rehyd$) adj2 (therap$ or treat$)).tw.
5. exp Colloids/
6. exp blood substitutes/ or exp plasma substitutes/
7. (colloid$ or crystalloid$).tw.
8. (ringer$ or salin$ or hartman$ or sodium$ or potassium$).tw.
9. (volum$ adj2 restor$).tw.
10. exp Blood Transfusion/
11. (blood adj2 transfus$).tw.
12. (fluid$ adj2 resus$).tw.
13. (fluid$ adj2 restor$).tw.
14. or/1-13

KQ7 – CLINICAL PROTOCOLS

1. exp Clinical Protocols/
2. exp patient care planning/ or exp critical pathways/
3. exp Practice Guidelines/
4. protocol$.tw.
5. ((patient$ or critical$ or clinica$) adj2 (plan$ or pathway$)).tw.
6. or/1-5

KQ9 & 25 - TIMING OF ENDOSCOPY

1. exp time/ or exp time factors/
2. (time or timing).tw.
3. ((endoscop$ or colonoscop$ or duodenoscop$ or gastroscop$ or proctoscop$ or sigmoidoscop$ or enteroscop$) adj3 (urgent or emergen$ or speed or immediat$ or hour$ or min$)).tw.
4. or/1-3
5. exp Endoscopy/
6. (endoscop$ or colonoscop$ or duodenoscop$ or gastroscop$ or proctoscop$ or sigmoidoscop$ or enteroscop$).tw.
7. 5 or 6
8. 4 and 7

KQ10 – PRACTITIONER EXPERIENCE – DON'T COMBINE WITH MAIN STEM

1. ((endoscop$ or colonoscop$ or coloscop$ or sigmoidoscop$ or duodenoscop$ or gastroscop$ or proctoscop$ or esophagoscop$) adj6 (experience or skill$ or expert$ or abilit$ or train$ or compet$)).tw.
2. (nurs$ adj6 endoscop$).tw.
3. 1 or 2
4. exp professional competence/ or exp clinical competence/
5. (skill$ or expert$ or abilit$ or train$ or compet$).tw.
6. speciali?ation.tw.
7. special$.tw.
8. exp nurses/ or exp nurse practitioners/
9. exp professional role/ or exp nurse's role/ or exp physician's role/
10. or/4-9
11. Endoscopy, Digestive System/
12. Endoscopy/
13. (endoscop$ or colonoscop$ or coloscop$ or sigmoidoscop$ or duodenoscop$ or gastroscop$ or proctoscop$ or esophagoscop$).tw.
14. or/11-13

15. 10 and 14
16. 3 or 15

KQ11 COLONOSCOPY – NOT COMBINED WITH MAIN STEM
1. exp colonoscopy/ or exp sigmoidoscopy/
2. (colonoscop$ or sigmoidoscop$).tw.
3. Angiography/
4. (angiograph$ or arteriograph$).tw.
5. exp tomography, x-ray computed/ or exp colonography, computed tomographic/
6. CT.tw.
7. (comp$ adj2 tomog$).tw.
8. exp Endoscopy, Digestive System/
9. radio$ scan$.tw.
10. radionucleo$.tw.
11. exp tomography, emission-computed/ or exp radionuclide imaging/
12. radionu$.tw.
13. or/1-12
14. exp Gastrointestinal Hemorrhage/
15. (hemateme$ or haemateme$ or hematochezi$ or haematochez$).tw.
16. (melen$ or melaen$).tw.
17. ((esophag$ or oesophag$ or gastric) adj3 (varice$ or varix)).tw.
18. ((fecal or faecal) adj3 (bleed$ or blood)).tw.
19. exp occult blood/
20. ((GI or stomach$ or gastric or gastrointestin$ or gastro-intestin$ or varice$ or varix or ulcer) adj3 (bleed$ or blood or lesion or hemorrhag$ or haemorrhag$ or rebleed$)).tw.
21. ((occult$ or colon$ or obscur$) adj3 (bleed$ or blood or lesion or hemorrhag$ or haemorrhag$ or rebleed$)).tw.
22. exp "Esophageal and Gastric Varices"/
23. or/14-22
24. 13 and 23

KQ12 CLIPPING
1. exp hemostatic techniques/ or exp balloon occlusion/ or exp embolization, therapeutic/ or exp hemostasis, endoscopic/ or exp hemostasis, surgical/
2. (hemoclip$ or haemoclip$ or clip$).tw.
3. exp Laser Coagulation/
4. laser$.tw.
5. embolizat$.tw.
6. embolisat$.tw.
7. embolo$.tw.
8. chemoembol$.tw.
9. (hemosta$ or haemosta$).tw.
10. exp Hemostasis/
11. or/1-10
12. exp Colectomy/
13. colectom$.tw.
14. ((colo$ or rect$) adj2 surg$).tw.
15. exp Colorectal Surgery/
16. exp Colon/su [Surgery]
17. exp Rectum/su [Surgery]
18. exp Colonic Diseases/su [Surgery]
19. or/12-18
20. 11 or 19

KQ13 – PATIENT CONCERNS
1. exp social support/
2. exp Adaptation, Psychological/
3. exp Stress, Psychological/
4. ((psycholog$ or social$ or psychosocial) adj2 (adjust$ or behavio?r or adapt$)).tw.
5. exp Counseling/
6. counsel$.tw.

7. (patient adj3 (anxiety or stress)).tw.
8. exp Patient Education/
9. (patient adj3 (recov$ or inform$ or care or educat$)).tw.
10. *professional-patient relations/ or *nurse-patient relations/ or *physician-patient relations/
11. (leaflet$ or booklet$ or pamphlet$ or tape$ or video$).tw.
12. exp Communication/
13. exp PAMPHLETS/
14. exp Patient Participation/
15. (information adj3 (need$ or resource$)).tw.
16. patient literature.tw.
17. information.tw.
18. exp psychotherapy, group/ or exp family therapy/
19. exp "cost of illness"/
20. exp caregivers/ or exp parents/ or exp siblings/
21. exp Family Relations/
22. (family or parent$ or mother$ or father$ or brother$ or sister$ or sibling$).tw.
23. (carer$ or caregiver$ or care-giver$).tw.
24. (psycholog$ or social$ or psychosocial).tw.
25. exp Anxiety/
26. exp Preoperative Care/
27. or/1-26

KQ14 LOCALISING BLEEDING POINT
1. (loca$ adj3 bleed$).tw.
2. (site adj3 bleed$).tw.
3. (anat$ adj2 (site$ or loca$)).tw.
4. (identif$ adj3 bleed$).tw.
5. or/1-4

KQ16&17 ENDOSCOPIC FINIDNGS
1. forrest$.tw.
2. (endoscop$ adj2 (find$ or factor$ or found$ or criter$)).tw.
3. (adherent$ adj2 clot$).tw.
4. (visib$ adj2 (vess$ or clot$)).tw.
5. ((ulcer$ or base$) adj3 (clean$ or dark$ or black$ or red$ or white or pearl$ or spot$ or clean$)).tw.
6. (ulcer$ adj2 base$).tw.
7. (sent$ adj2 clot$).tw.
8. (pigmen$ adj2 protub$).tw.
9. ((ooz$ or spurt$) adj2 (haemor$ or hemor$ or blood$)).tw.
10. rebleed$.tw.
11. re-bleed$.tw.
12. exp Blood Transfusion/
13. transfus$.tw.
14. exp Survival Rate/
15. exp "severity of illness index"/
16. or/1-15

KQ18 ENDOSCOPIC THERAPY – NOT COMBINED WITH MAIN STEM
1. exp Sclerotherapy/
2. exp Sclerosing Solutions/
3. sclero$.tw.
4. exp Epinephrine/
5. (epinephr$ or adrenalin$).tw.
6. hemostatic techniques/ or exp balloon occlusion/ or exp embolization, therapeutic/ or exp hemostasis, endoscopic/
7. (clip$ or band$ or hemoclip$ or haemoclip$).tw.
8. exp Ligation/
9. ligat$.tw.
10. exp *Endoscopy, Digestive System/
11. exp Electrocoagulation/
12. (electrocoag$ or thermocoag$).tw.

13. therm$.tw.
14. or/1-13
15. exp Gastrointestinal Hemorrhage/
16. (hemateme$ or haemateme$ or hematochezi$ or haematochez$).tw.
17. (melen$ or melaen$).tw.
18. ((esophag$ or oesophag$ or gastric) adj3 (varice$ or varix)).tw.
19. ((fecal or faecal) adj3 (bleed$ or blood)).tw.
20. exp occult blood/
21. exp "Esophageal and Gastric Varices"/
22. ((nonvaric$ or non-varic$ or GI or stomach$ or gastric or gastrointestin$ or gastro-intestin$ or varice$ or varix or ulcer) adj3 (bleed$ or blood or lesion or hemorrhag$ or haemorrhag$ or rebleed$)).tw.
23. ((occult$ or colon$ or obscur$) adj3 (bleed$ or blood or lesion or hemorrhag$ or haemorrhag$ or rebleed$)).tw.
24. ((duod$ or oesoph$ or esoph$) adj3 (bleed$ or blood or lesion or hemorrhag$ or haemorrhag$ or rebleed$)).tw.
25. or/15-24
26. 14 and 25

KQ19 ANGIOGRAPH-SURGERY – DON'T COMBINE WITH MAIN STEM
1. exp Peptic Ulcer Hemorrhage/
2. ((peptic$ or ulcer$) adj2 (haem$ or bleed$)).tw.
3. 1 or 2
4. exp Endoscopy, Gastrointestinal/
5. endoscop$.tw.
6. 4 or 5
7. 3 and 6
8. exp Angiography/
9. angiograph$.tw.
10. 8 or 9
11. 3 and 10
12. exp Digestive System Surgical Procedures/
13. 3 and 12
14. 7 or 11 or 13
15. limit 14 to yr="2000 - 2007"

KQ20CD
1. exp Somatostatin/
2. somatostatin$.tw.
3. exp Octreotide/
4. octreotid$.tw.
5. exp Tranexamic Acid/
6. tranexamic$.tw.
7. (amcha or amca or amchafibrin or cyklokapron or anvitoff or exacyl or spotof or transamin or ugurol).tw.
8. or/1-7

KQ21 – H.PYLORI ERADICATION
1. exp Helicobacter pylori/
2. exp Helicobacter Infections/
3. pylori.tw.
4. helicobac$.tw.
5. or/1-4

KQ21 – H.PYLORI ERADICATION (TIMING ONLY). USED FOR OBSERVATIONAL SEARCH
1. exp Gastrointestinal Hemorrhage/
2. (hemateme$ or haemateme$ or hematochezi$ or haematochez$).tw.
3. (melen$ or melaen$).tw.
4. exp Endoscopy, Gastrointestinal/
5. (colonoscop$ or coloscop$ or duodenoscop$ or gastroscop$ or proctoscop$).tw.
6. ((esophag$ or oesophag$ or gastric) adj3 (varice$ or varix)).tw.
7. ((fecal or faecal) adj3 (bleed$ or blood)).tw.
8. exp occult blood/

9. ((GI or stomach$ or gastric or gastrointestin$ or gastro-intestin$ or varice$ or varix or ulcer) adj3 (endoscop$ or bleed$ or blood or lesion or hemorrhag$ or haemorrhag$ or rebleed$)).tw.
10. ((occult$ or colon$ or obscur$) adj3 (endoscop$ or bleed$ or blood or lesion or hemorrhag$ or haemorrhag$ or rebleed$)).tw.
11. ((duod$ or oesoph$ or esoph$) adj3 (endoscop$ or bleed$ or blood or lesion or hemorrhag$ or haemorrhag$ or rebleed$)).tw.
12. exp "Esophageal and Gastric Varices"/
13. or/1-12
14. exp Helicobacter pylori/
15. exp Helicobacter Infections/
16. pylori.tw.
17. helicobac$.tw.
18. or/14-17
19. 13 and 18
20. exp time/ or exp time factors/
21. (time or timing).tw.
22. 20 or 21
23. 19 and 22
24. limit 23 to yr="2000 - 2007"

KQ22 ASPIRIN ETC
1. exp Aspirin/
2. (aspirin$ or acetylsal$).tw.
3. exp Serotonin Uptake Inhibitors/
4. SSRI$.tw.
5. (serotonin$ adj2 (reuptake$ or uptake$)).tw.
6. exp Anti-Inflammatory Agents, Non-Steroidal/
7. NSAID$.tw.
8. ((nonsteroid$ or non-steroid$ or non steroid$) adj2 (anti-inflam$ or antiinflam$ or anti inflam$)).tw.
9. exp Steroids/
10. steroid$.tw.
11. exp Ticlopidine/
12. (clopidogrel$ or ticlopidine$ or ticlodone$).tw.
13. exp Warfarin/
14. (warfarin$ or coumadin$).tw.
15. exp Proton Pumps/
16. (pump adj2 inhibit$).tw.
17. ppi.tw.
18. exp Benzimidazoles/
19. exp sulfoxides/ or omeprazole/
20. (proton adj2 inhibit$).tw.
21. omeprazole.tw.
22. lansoprazole.tw.
23. pantoprazole.tw.
24. rabeprazole.tw.
25. esomeprazole.tw.
26. exp Histamine H2 Antagonists/
27. ((H2 or hist$) adj2 (block$ or antag$)).tw.
28. H2B.tw.
29. or/1-28

KQ23 – SECOND LOOK
1. exp Second-Look Surgery/
2. ((second$ or repeat$) adj2 endoscop$).tw.
3. 1 or 2

KQ24A & 26A
1. exp Vasopressins/
2. (vasopressin$ or pitressin$ or argipressin$ or lypressin$ or ornipressin$ or felypressin$).tw.
3. exp Lypressin/

4. (glypressin$ or terlipressin$).tw.
5. exp Somatostatin/
6. somatostat$.tw.
7. exp Octreotide/
8. (octreotid$ or sandostatin$).tw.
9. exp Nitrates/
10. nitrat$.tw.
11. exp Sclerotherapy/
12. (sclerotherap$ or sclerosing$).tw.
13. (varic$ adj2 band$).tw.
14. exp Ligation/
15. (varic$ adj2 ligat$).tw.
16. or/1-15

KQ24B & 26Bb – Balloon Tamponade
1. exp Balloon Dilatation/
2. balloon$.tw.
3. sengstaken$.mp.
4. minnesota$.mp.
5. exp Intubation, Gastrointestinal/
6. (intubat$ or tube$).tw.
7. or/1-6

KQ26B
1. Portasystemic Shunt, Transjugular Intrahepatic/
2. (TIPSS or TIPS).tw.
3. (transjug$ adj3 (porto$ or porta$ or shunt$)).tw.
4. (balloon$ adj3 tamponade).tw.
5. exp Balloon Dilatation/
6. tamponade.tw.
7. exp Endoscopy/
8. exp Endoscopy, Digestive System/
9. endoscop$.tw.
10. exp vasopressins/ or exp lypressin/
11. (lypressin$ or vasopressin$).tw.
12. glypressin$.tw.
13. exp Octreotide/
14. (octreotide$ or sandostatin$).tw.
15. (vasopressin$ or antidiuretic$ or pitressin$).tw.
16. exp Nitrates/
17. nitrate$.tw.
18. exp Somatostatin/
19. somatostatin$.tw.
20. stilamin.tw.
21. exp Balloon Occlusion/
22. terlipressin$.tw.
23. or/1-22

KQ26C
1. exp vasopressins/ or exp lypressin/
2. (lypressin$ or vasopressin$ or glypressin$ or terlipres$).tw.
3. exp Anti-Bacterial Agents/
4. (antibiot$ or antibac$ or anti-bac$).tw.
5. exp Nitrates/
6. exp Nitric Oxide Donors/
7. nitrate$.tw.
8. exp Adrenergic beta-Antagonists/
9. (beta$ adj2 (block$ or antag$)).tw.
10. exp Somatostatin/
11. exp Octreotide/
12. (octreotid$ or sandostatin$ or somatostatin$ or stilamin$).tw.

13. (varic$ adj2 band$).tw.
14. exp Ligation/
15. (varic$ adj2 ligat$).tw.
16. exp Portasystemic Shunt, Transjugular Intrahepatic/
17. (tipss or tips).tw.
18. (transjug$ adj3 (porto$ or porta$ or shunt$)).tw.
19. exp Endoscopy, Digestive System/ or exp Endoscopy/
20. endoscop$.tw.
21. or/1-20
22. exp Gastrointestinal Hemorrhage/
23. (hemateme$ or haemateme$ or hematochezi$ or haematochez$).tw.
24. (colonoscop$ or coloscop$ or duodenoscop$ or gastroscop$ or proctoscop$).tw.
25. ((esophag$ or oesophag$ or gastric) adj3 (varice$ or varix)).tw.
26. exp occult blood/
27. ((GI or stomach$ or gastric or gastrointestin$ or gastro-intestin$ or varice$ or varix or ulcer) adj3 (endoscop$ or bleed$ or blood or lesion or hemorrhag$ or haemorrhag$ or rebleed$)).tw.
28. ((occult$ or colon$ or obscur$) adj3 (endoscop$ or bleed$ or blood or lesion or hemorrhag$ or haemorrhag$ or rebleed$)).tw.
29. ((duod$ or oesoph$ or esoph$) adj3 (endoscop$ or bleed$ or blood or lesion or hemorrhag$ or haemorrhag$ or rebleed$)).tw.
30. exp "Esophageal and Gastric Varices"/
31. or/22-30
32. 21 and 31

Supplementary Search: Pseudomembranous Colitis (this search was in addition to the original search on H.pyloir + GI Blood Loss

1 exp Helicobacter pylori/
2 exp Helicobacter Infections/
3 pylori.tw.
4 helicobac$.tw.
5 or/1-4
6 exp Enterocolitis, Pseudomembranous/
7 ((pseudomem$ or antibiot$) adj3 (coliti$ or enterocol$ or enteritis$)).tw.
8 6 or 7
9 5 and 8

Supplementary Search: Checking for ulcer healing

1. exp Peptic Ulcer/
2. ((peptic$ or gastroduod$ or marginal$ or stomach$ or duoden$ or curling$ or gastric or gastr$) adj2 ulcer$).tw.
3. 1 or 2
4. exp gastrointestinal neoplasms/ or exp stomach neoplasms/
5. exp Adenocarcinoma/
6. (cancer$ or neoplasm$ or malignan$ or carcinom$ or adenocarcinom$).tw.
7. or/4-6
8. 3 and 7
9. limit 8 to yr="2000 - 2007"
10. exp Endoscopy/
11. (endoscop$ or colonoscop$ or duodenoscop$ or gastroscop$ or proctoscop$ or sigmoidoscop$ or enteroscop$).tw.
12. 10 or 11
13. 9 and 12

Supplementary Search: PPIs and H.P eradication after oversewing

1. exp Peptic Ulcer/
2. exp Peptic Ulcer Hemorrhage/
3. ((peptic$ or gastroduod$ or marginal$ or stomach$ or duoden$ or curling$ or gastric or gastr$) adj2 ulcer$).tw.
4. or/1-3
5. exp Postoperative Complications/
6. exp Recurrence/
7. (recur$ or rebleed$).tw.

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8. or/5-7
9. 4 and 8
10. limit 9 to yr="2000 - 2007"
11. exp digestive system surgical procedures/ or exp gastrectomy/
12. oversew$.tw.
13. exp Vagotomy/
14. (gastrectom$ or vagotom$).tw.
15. ((gast$ or ulcer$) adj3 resec$).tw.
16. or/11-15
17. 10 and 16
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