

Guideline topic: Hepatitis C

General comments

The remit of the guideline excludes prevention of infection by the hepatitis C virus.

Search coverage

Patient searches

The search combined the original patient filter and the CCI patient filter.

Databases covered: **Medline, Embase, CINAHL, PsycINFO, HMIC, Caredata** Dates covered: 1999-2003

Total hits:526

Pre-sifted result:26

Guidelines

Websites with relevant guidelines:

GIN Web site

National Guidelines Clearinghouse

NeLH Guidelines Finder

NICE Web site

TRIP Database

Canadian Medical Association

Agency for Health Care Research and Quality (AHRQ)

Databases covered:

Embase (1999-2004)

Medline (1999-2004)

CINAHL (1999-2004)

Total hits: 55 in total (31 from Internet search; 24 from database search)

Guidelines evaluated using AGREE instrument:

Systematic reviews

Databases covered:

Embase

Medline

CINAHL

Cochrane

DARE

Dates covered:

1999-2004

Total hits:

252 (+ 5 Cochrane Protocols)

Pre-sifted result:

89 (+ 5)

Sifted result:

RCTs

Databases covered:

Embase

Medline

CINAHL

PsycINFO (relevant KQs only)

NEED (KQ1-3 only)

Dates covered:

2000-2005

<i>Total hits:</i>	<i>Pre-sifted result:</i>	<i>Sifted result:</i>
SG1		
KQ1-3 - 381	23	1
KQ1-3 NEED – 11	11	5
KQ4+8 - 846	7	
KQ5-6 – 830	39	13
KQ7 – 338	8	
KQ9+11 - 272	13	
KQ10,12+13 – 167	8	6
SG2		
KQ14,16-17 - 428	57	9
KQ15+18 – 1945	236	56
KQ20-25 - 2075	202	
KQ19,30+32 - 1061	70	50 (SG2), 26 (SG3)
SG3		
KQ26-29+34 - 1146	113	47
KQ33 - 126	10	9
Observational studies		
<i>Databases covered:</i>		<i>Dates covered:</i>
Embase		2000-2005
Medline		
CINAHL		
PsycINFO (relevant KQs only)		
AMED (relevant KQs only)		
<i>Total hits:</i>	<i>Pre-sifted result:</i>	<i>Sifted result:</i>
SG1		
KQ1-3 – 920	123	
KQ 4&8 – 949	72	
KQ 7 – 792	69	
KQ 9&11 – 170	38	
KQ 10,12,13 – 637	107	
SG2		
1923	500	
KQ 19,30, 32 - 1113	43	
Diagnostic studies		

<i>Databases covered:</i>		<i>Dates covered:</i>
Embase Medline CINAHL		200-2005
<i>Total hits:</i>	<i>Pre-sifted result:</i>	<i>Sifted result:</i>
SG1		
KQ 5&6 - 873	249	
Economic studies		
<i>Databases covered:</i>		<i>Dates covered:</i>
<i>Total hits:</i>		<i>Sifted result:</i>
Supplementary searches		
<i>Databases covered:</i>		<i>Dates covered:</i>
<i>Total hits:</i>		<i>Sifted result:</i>
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 antibody 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 Hepatitis C/ 2 "hepatitis C".tw. 3 FIBROSIS/ 4 cirrhosis.tw. 5 Liver Neoplasms/ 6 Liver Transplantation/ 7 Hepatoma/ 8 HCV.tw. 9 CHC.tw. or/1-9	
Generic Stem:	
1. exp hepatitis c/ 2. "hepatitis c".tw. 3. "hepatitis, viral, non-a, non-b".tw. 4. "non a non b hepatitis".tw. 5. chronic hepatitis.tw. 6. "hep c".tw. 7. hcv.tw. 8. chc.tw. 9. or/1-8	
SG1 Stems:	
KQ1-3 (screening and testing)	
1. mass screening/ 2. mandatory testing/	22. doping in sports/ 23. (doping or performance enhancing drug\$.tw.

<p>3. ((hep or hepatitis or hcv or viral or virus) adj2 (test\$ or screen\$)).tw. 4. or/1-3 5. (screen\$ or test\$).tw. 6. prisoners/ 7. (prison\$ or convict\$ or inmate\$ or criminal\$ or detainee\$ or offender\$).tw. 8. exp ambulatory care facilities/ 9. ((antibod urinary or genitourinary or gu) adj2 clinic\$).tw. 10. prenatal care/ 11. ((antenatal or ante natal or prenatal or pre natal or perinatal or peri natal) adj2 clinic\$).tw. 12. substance abuse, intravenous/ 13. exp substance-related disorders/ 14. designer drugs/ 15. exp street drugs/ 16. ((drug\$ or substance\$ or alcohol\$) adj2 (abuse\$ or use\$ or misuse\$ or addict\$ or depend\$)).tw. 17. ((drug\$ or substance\$ or alcohol\$) adj2 (treatment or dehabituat\$)).tw. 18. exp alcohol-related disorders/ 19. alcoholics anonymous/ 20. alcohol abuse/ 21. alcoholics.tw.</p>	<p>24. alanine transaminase/ 25. (alanine transaminase or alanine amino transferase or alanine aminotransferase or alt).tw. 26. sexual partners/ 27. exp family/ 28. (partner\$ or husband or wife or son\$ or daughter\$ or family or spouse\$ or sibling\$).tw. 29. (sexual partner\$ or multiple partner\$).tw. 30. exp hiv infections/ 31. (hiv or human immunodeficiency virus).tw. 32. needlestick injuries/ 33. (needlestick\$ or needle stick\$).tw. 34. exp hepatitis b/ 35. (hcv or "hep b" or "hepatitis b").tw. 36. exp body modification, non-therapeutic/ 37. (tattoo\$ or piercing\$).tw. 38. or/6-37 39. 38 and 5 40. exp health promotion/ 41. ((health\$ or wellness) adj2 (promotion\$ or awareness or campaign\$ or program\$ or advert\$)).tw. 42. test seeking behavior\$.tw. 43. or/40-42 44. 4 or 39 or 43</p>
<p>KQ4 + 8 (MDT/service delivery) 1. exp "delivery of health care"/ 2. exp models, theoretical/ 3. exp managed care programs/ 4. cooperative behavior/ 5. exp professional practice/ 6. ((health care or healthcare or service or practice or integrat\$ or collaborat\$ or multidisciplin\$ or multidisciplin\$) adj2 (deliver\$ or configur\$ or system\$ or model\$ or integrat\$ or collaborat\$)).tw. 7. exp patient care team/ 8. ((multidisciplinary or "multi disciplinary") adj2 (team\$ or network\$ or work\$)).tw.</p>	<p>9. ((interdisciplinary or "inter disciplinary") adj2 (team\$ or network\$ or work\$)).tw. 10. ((interprofessional or "inter professional") adj2 (team\$ or network\$ or work\$)).tw. 11. health care team\$.tw. 12. medical care team\$.tw. 13. patient care team\$.tw. 14. ((transdisciplinary or "trans disciplinary") adj2 (team\$ or network\$ or work\$)).tw. 15. managed clinical network\$.tw. 16. (mdt or mcn).tw. 17. or/1-16</p>
<p>KQ5 + 6 (diagnosis): 1. exp *hepatitis c/di 2. *diagnostic tests, routine/ 3. *molecular diagnostic techniques/ 4. exp serologic tests/ 5. ((serolog\$ or antibody\$) adj (test\$ or technique\$ or assay\$)).tw. 6. exp immunoblotting/ 7. exp immunoenzyme techniques/ 8. (elisa or enzyme linked immunosorbent assay\$).tw. 9. (riba or recombinant immunoblot\$ assay\$ or recombinant immuno blot\$ assay\$).tw. 10. (immunoenzyme adj (technique\$ or method\$ or assay\$)).tw. 11. exp polymerase chain reaction/ 12. (pcr or rt-pcr or rt-pcr or polymerase chain reaction).tw.</p>	<p>13. transcription mediated amplification.tw. 14. hepatitis c antibodies/ 15. ((antiHCV or HCV) adj2 (antibody\$ or vir?emia)).tw. 16. viremia/ 17. hepatitis c antigens/ 18. ((hep c or hepatitis c or viral) adj antigen\$).tw. 19. (resolved adj2 infect\$).tw. 20. saliva/ 21. saliva.tw. 22. ((blood or haematolo\$ or hematolo\$) adj2 (spot\$ or test\$)).tw. 23. exp hematologic tests/ 24. or/1-23</p>
<p>KQ7 (behaviour modification) 1. exp behavior therapy/ 2. exp behavior control/ 3. exp life style/ 4. exp health behavior/ 5. ((life style\$ or lifestyle\$ or behavior\$ or behaviour\$)</p>	<p>12. exp alcohol-related disorders/ 13. alcoholics anonymous/ 14. alcohol abuse/ 15. alcohol drinking/ 16. (alcoholic\$ or alcoholism).tw.</p>

<p>adj2 (change\$ or modif\$ or adjust\$ or health\$).tw. 6. substance abuse, intravenous/ 7. exp substance-related disorders/ 8. designer drugs/ 9. exp street drugs/ 10. ((drug\$ or substance\$ or alcohol\$) adj2 (abuse\$ or use\$ or misuse\$ or addict\$ or depend\$)).tw. 11. ((drug\$ or substance\$ or alcohol\$) adj2 (treatment or dehabitation)).tw.</p>	<p>17. doping in sports/ 18. (doping or performance enhancing drug\$).tw. 19. sexual partners/ 20. exp Sexual Behavior/ 21. ((sexual or multiple) adj (partner\$ or behaviour\$ or behaviour\$)).tw. 22. exp counseling/ 23. counsel\$.tw. 24. or/1-23</p>
<p>KQ9 + 11 (prophylaxis and vaccination) 1. antibiotic prophylaxis/ 2. (prophylaxis or prophylactic).tw. 3. exp viral hepatitis vaccines/ 4. ((hepatitis a or hep a or hav or hepatitis b or hep b or hbv) adj3 (vaccine\$ or immunis\$ or immuniz\$)).tw.</p>	<p>5. exp immunization/ 6. hepatitis a/ or exp hepatitis b/ 7. 5 and 6 8. or/1-4,7</p>
<p>KQ10, 12-13 (transmission): 1. disease transmission, vertical/ 2. (mother adj (baby or infant or child) adj2 transmission).tw. 3. vertical transmission.tw. 4. ((perinatal or peri natal or prenatal or pre natal or antenatal or ante natal) adj transmission).tw. 5. or/1-4 6. (transmission or infect\$).tw. 7. exp *hepatitis c/tm 8. exp disease transmission, horizontal/ 9. disease transmission/ 10. or/6-9 11. close contact\$.tw. 12. (household\$ or house hold\$).tw. 13. exp family characteristics/ 14. exp family/ 15. (partner\$ or husband\$ or wife\$ or son\$ or daughter\$ or family or spouse\$ or sibling\$ or brother\$ or sister\$).tw. 16. exp sexual behavior/ 17. sexual partners/ 18. (sex or sexual).tw. 19. (kiss or kisses or kissing).tw. 20. (bite or bites or biting).tw. 21. exp "bites and stings"/ 22. toothbrushing/ 23. (toothbrush\$ or tooth brush\$).tw. 24. (hairbrush\$ or hair brush\$ or comb or combs or combing).tw.</p>	<p>25. towel\$.tw.26. hair removal/ 27. (razor\$ or shav\$).tw. 28. (clipper\$ or sissor\$).tw. 29. exp cosmetics/ 30. (lipstick\$ or lip stick\$ or lipgloss\$ or lip gloss\$ or lipsalve\$ or lip salve\$).tw. 31. dried blood\$.tw. 32. exp "food and beverages"/ 33. (food\$ or drink\$ or beverage\$).tw. 34. baths/ 35. (bath\$ or swim\$).tw. 36. swimming/ 37. swimming pool/ 38. electrolysis/ 39. electrolysis.tw. 40. exp cosmetic techniques/ 41. (manicur\$ or depilation).tw. 42. exp body modification, non-therapeutic/ 43. (tattoo\$ or piercing\$).tw. 44. exp contraception/ 45. exp contraceptive devices/ 46. (barrier adj (contracepti\$ or method\$)).tw. 47. condom\$.tw. 48. or/11-47 49. 48 and 10 50. 5 or 49</p>
<p>SG2 Stems:</p>	
<p>KQ14,16 + 17 (untreated) 1. exp *hepatitis c/et 2. natural history.tw. 3. (aetiology or etiology).tw. 4. untreated.tw. 5. ((treatment\$ or therapy or therapies or patient\$ or antiviral\$ or anti-viral\$ or antiretroviral\$) adj2 naive).tw. 6. or/1-5</p>	
<p>KQ15 + 18 (treatment) 1. exp *interferons/ 2. exp *antiviral agents/ 3. *ribavirin/ 4. or/1-3</p>	
<p>KQ20-25 (adverse, untreated + biopsy)</p>	

<ol style="list-style-type: none"> 1. exp *interferons/ae 2. exp *antiviral agents/ae 3. exp *ribavirin/ae 4. exp drug hypersensitivity/ 5. ((side or adverse) adj2 (effect\$ or reaction\$ or event\$)).tw. 6. (hyper-sensitiv\$ or hypersensitiv\$).tw. 7. (contra-indication\$ or contraindication\$).tw. 8. or/1-7 9. exp *interferons/ 10. exp *antiviral agents/ 11. exp *ribavirin/ 12. or/9-11 13. exp pregnancy/ 14. breast feeding/ 15. exp contraception/ 16. (pregnan\$ or breast feed\$ or contracepti\$).tw. 17. kidney failure, chronic/ 18. (chronic adj2 (renal failure or kidney failure)).tw. 19. exp alcohol-related disorders/ 20. alcohol drinking/ 21. (alcoholism or alcoholic\$).tw. 22. (alcohol adj2 (intake or drink\$ or abuse\$)).tw. 23. exp substance-related disorders/ 24. substance abuse, intravenous/ 25. ((drug\$ or substance\$) adj2 (abuse\$ or use\$)).tw. 26. depression/ 27. exp psychotic disorders/ 28. exp learning disorders/ 29. exp mental retardation/ 30. depression.tw. 31. (psychosis or psychoses).tw. 32. (learning adj (disorder\$ or disabilit\$ or disturbance\$ or difficult\$)).tw. 33. exp epilepsy/ 34. (epileps\$ or seizure\$).tw. 35. exp neoplasms/ 36. (neoplas\$ or cancer\$ or carcinoma\$).tw. 37. exp heart failure, congestive/ 38. (congestive adj2 (heart failure or cardiac failure)).tw. 39. exp respiratory insufficiency/ 40. (respiratory adj (failure or insufficiency)).tw. 41. exp psoriasis/ 42. psoriasis.tw. 43. exp anemia/ 44. (anemia or anaemia).tw. 	<ol style="list-style-type: none"> 45. exp leukopenia/ 46. (leukopenia or leukocytopenia).tw. 47. exp thrombocytopenia/ 48. (thrombocytopenia or thrombocytopaenia).tw. 49. diabetic retinopathy/ 50. retinopath\$.tw. 51. exp obesity/ 52. obesity.tw. 53. exp organ transplantation/ 54. ((organ or liver or renal or kidney or bone marrow) adj transplant\$).tw. 55. exp autoimmune diseases/ 56. (autoimmune adj2 (condition\$ or disease\$)).tw. 57. exp hyperthyroidism/ 58. hyperthyroid\$.tw. 59. normal serum transamin\$.tw. 60. exp immunosuppressive agents/ 61. immunosuppress\$.tw. 62. myelosuppress\$.tw. 63. exp theophylline/ 64. theophylline\$.tw. 65. exp reverse transcriptase inhibitors/ 66. nucleoside reverse transcriptase inhibitor\$.tw. 67. or/13-66 68. 12 and 67 69. recurrence/ 70. (relapse\$ or recurrence\$ or recrudescence\$).tw. 71. (non-respond\$ or nonrespond\$ or non-response\$ or nonresponse\$).tw. 72. exp amantadine/ 73. amantadine\$.tw. 74. thymosin/ 75. thymosin\$.tw. 76. exp histamine/ 77. exp histamine agents/ 78. histamine\$.tw. 79. (long-term adj interferon\$).tw. 80. ((sustained adj2 viral response) or svr).tw. 81. or/69-80 82. exp biopsy/ and exp liver diseases/ 83. (liver adj2 biops\$).tw. 84. treatment failure/ 85. ((treatment\$ or therap\$) adj2 fail\$).tw. 86. clinical review\$.tw. 87. or/82-86 88. 8 or 68 or 81 or 87
<p>SG3 Stems:</p>	
<p>KQ26-29 + 34 (cirrhosis + transplant)</p> <ol style="list-style-type: none"> 1. carcinoma, hepatocellular/ 2. exp liver neoplasms/ 3. ((hepatocellular or hepto-cellular or liver or hepatic) adj2 (carcinoma\$ or neoplas\$ or cancer\$ or tumor\$ or tumour\$ or malignan\$ or adenocarcinoma\$)).tw. 4. (hepatoma or hepatocarcinoma or hcc).tw. 5. or/1-4 6. exp fibrosis/ and (exp liver/ or exp liver diseases/) 7. exp liver cirrhosis/ 8. ((liver or hepat\$) adj2 (cirrhosis or cirrheses or fibrosis)).tw. 9. ((compensated or decompensated or de- 	<ol style="list-style-type: none"> 10. or/6-9 11. liver transplantation/ 12. ((liver or hepat\$) adj2 (transplant\$ or graft\$ or retransplant or re-transplant\$)).tw. 13. ((liver or hepat\$ or organ\$ or tissue\$) adj2 reject\$).tw. 14. reoperation/ 15. exp host vs graft reaction/ 16. ((transplant\$ or graft\$) adj2 (reject\$ or failure\$)).tw. 17. or/11-16 18. 5 or 10 or 17

<p>compensated) adj2 (cirrhosis or fibrosis or cirrhoses).tw.</p>	
<p>KQ 19, 30 ,32 1. exp psychotherapy/ 2. (psychological therap\$ or psychotherap\$).tw. 3. cognitive behavio?r\$ therap\$.tw. 4. ((behavio?r\$ or condition) adj2 (modif\$ or chang\$ or therap\$)).tw. 5. or/1-4 6. exp self-help groups/ 7. exp community networks/ 8. consumer organizations/ 9. (self-help group\$ or support group\$).tw. 10. ((community or social or patient) adj2 (support or network\$ or organi?ation\$ or association\$)).tw. 11. patient advocacy/ 12. patient advocacy.tw. 13. exp *counseling/ 14. or/6-13 15. *nurse/ 16. *nurse practitioner/ 17. ((specialist or specialised) adj2 nurs\$).tw. 18. (nurs\$ adj2 intervention\$).tw. 19. or/15-18 20. exp "physical activity, capacity and performance"/ 21. (exercis\$ or physiotherap\$ or physical therap\$).tw. 22. or/20-21 23. palliative care/ 24. (palliative adj (care or treatment or medicine or therap\$)).tw. 25. palliation.tw. 26. or/23-25 27. exp alternative medicine/ 28. exp traditional medicine/ 29. chinese drug/ 30. ((complementary or herb\$ or alternative or chinese or plant\$ or ayurvedic) adj2 (therap\$ or medicin\$ or treatment\$)).tw. 31. exp acupuncture/ 32. phytotherapy/ 33. (acupuncture\$ or acupressur\$ or phytotherap\$ or phytomedicin\$).tw. 34. exp medicinal plant/ 35. exp plant extract/ 36. exp plant medicinal product/ 37. herb/ 38. ((plant\$ or leaf\$ or leaves or seed\$) adj2 extract\$).tw. 39. kamo hozai/ 40. (kampo or hozai).tw. 41. homeopathy/ 42. homeopath\$.tw. 43. essential oil/ 44. essential oil\$.tw. 45. manipulative medicine/ 46. (manipulative therap\$ or manipulation or chiropractic\$ or osteopath\$).tw. 47. exp feedback system/ 48. alexander technique/ 49. (biofeedback or alexander technique\$).tw. 50. (craniosacral or cranio-sacral).tw.</p>	<p>85. (phyllanthus amorus or picororhiza kurroa or kutaki or picroside).tw. 86. catechin/ 87. (catechin or catergen or "cyanidanol-3" or nac or "n-acetyl cysteine").tw. 88. (phosphatidylcholine or idb1016).tw. or phosphatidylcholine/ 89. (thymic adj2 (extract\$ or formula or protein\$)).tw. 90. thymos\$.tw. 91. (s-adenosyl methonine or tj9 or tj108).tw. 92. xiao chai hu tang/ 93. bing gan tang/ 94. yi er gan tang/ 95. (sho-aiki-to or bin geng\$ or gansu or yi er gan or tin gan or qing gen or qi zhi or yi zhou).tw. 96. schisandraceae/ 97. hypericin/ 98. sophara japonica extract/ 99. (kalamakhar or mistletoe or viscum album or iscador qu or hypericin or schizandra or sophora japonica or matrine).tw. 100. exp ascorbic acid/ 101. (ascorbic acid or bursal virus vaccine\$).tw. 102. ("mth-68" or oral enzyme therap\$).tw. 103. panax/ 104. phlogenzym/ 105. rutoside/ 106. exp spirulina/ 107. exp chlorella/ 108. (phlogenzym or rutosid or panax or spirulina or chlorella or lecithin).tw. 109. (dandelion or slippery elm or "st john's wart" or hypericum perforatum or echinacea or olive leaf).tw. 110. (goldenseal or golden seal).tw. 111. garlic/ 112. (hydrastis or garlic or astragalus).tw. 113. (psyllium or fenugreek or trigonella).tw. 114. (evening primrose or aloe vera or ginger or zingiber officinale).tw. 115. ginger/ 116. or/27-115 117. exp nutrition/ 118. exp diet/ 119. exp diet therapy/ 120. exp malnutrition/ 121. exp dietary supplementation/ 122. exp food intake/ 123. (nutrition\$ or diet\$ or malnutrition\$).tw. 124. ((enteral or parenteral) adj (food\$ or feed\$ or nutrition)).tw. 125. exp obesity/ 126. exp body weight/ 127. (obesity or obese or body weight or weight loss).tw. 128. exp diabetes mellitus/ 129. insulin resistance/ 130. (diabetes or diabetic or insulin resistance).tw. 131. alcohol\$.tw. 132. exp fat intake/</p>

<p>51. massage/ 52. qi gong/ 53. reiki/ 54. (shiatsu or shiatzu or massag\$ or qi gong or qigong or reiki or spiritual).tw. 55. (aromatherap\$ or aroma therap\$).tw. 56. reflexology/ 57. reflexology.tw. 58. hydrotherap\$.tw. 59. exp hydrotherapy/ 60. music therapy/ 61. music therap\$.tw. 62. yoga/ 63. (meditation or yoga).tw. 64. autogenic training/ 65. autogenic training.tw. 66. hypnosis/ 67. (hypnosis or hypnotherap\$).tw. 68. guided imagery.tw. 69. tai chi/ 70. (tai chi or tai ji).tw. 71. milk thistle/ 72. silibinin/ 73. (milk thistle or silybum marianum or silymarin or silybinin).tw. 74. exp glycyrrhiza/ 75. (liquorice or licorice).tw. 76. neominophagen c/ 77. (glycrrhiz\$ or neominophagen or ginseng).tw. 78. plantago/ 79. aucubin/ 80. (plantago asiatica or aucubin).tw. 81. Curcuma longa/ 82. tea/ 83. (curcuma longa or tumeric or camellia sinensis or green tea).tw. 84. phyllanthus/</p>	<p>133. (low fat\$ or steathorrea).tw. 134. exp feeding behavior/ 135. exp dietary intake/ 136. ((atkins or macrobiotic\$ or macro-biotic\$ or hay) adj2 diet\$).tw. 137. fasting.tw. 138. exp trace elements/ 139. (macro-nutrient\$ or macronutrient\$ or micronutrient\$ or micro-nutrient\$).tw. 140. exp electrolyte intake/ 141. electrolyte\$.tw. 142. ((caloric or calorific or energy) adj (intake\$ or content\$)).tw. 143. (calorie\$ or calory).tw. 144. protein\$.tw. 145. exp amino acid/ 146. amino acid\$.tw. 147. carbohydrate\$.tw. 148. (lipid\$ or fat\$ or triglyceride\$ or polyunsaturate\$ or polyun-saturate\$ or poly-unsaturate\$).tw. 149. dietary fiber/ 150. (fibre\$ or fiber\$).tw. 151. (fluid\$ adj2 (intake\$ or diet\$)).tw. 152. (sodium or calcium or potassium or iodine or iron or selenium or zinc or magnesium or phosphorus).tw. 153. exp mineral intake/ 154. exp antioxidant/ 155. (anti-oxidant\$ or antioxidant\$ or mineral\$).tw. 156. exp vitamin/ 157. (vitamin a or vitamin b or vitamin b5 or vitamin b6 or vitamin b12 or vitamin c or vitamin e or vitamin k).tw. 158. niotinic acid/ 159. (thiamin\$ or riboflavin or niacin or folate\$ or biotin).tw. 160. (probiotic\$ or pro-biotic\$).tw. 161. or/117-160 162. 5 or 14 or 19 or 22 or 26 or 116 or 161</p>
<p>KQ33 (GCSF + EPO) 1. exp Colony-Stimulating Factors/ 2. (gcsf\$ or g-csf\$ or gmcsf\$ or g-mcsf\$ or gm-csf\$).tw. 3. (granulocyte adj3 colony stimulating factor\$).tw. 4. filgrastim.tw. 5. erythropoietin.tw. 6. (erythropoi\$ adj factor\$).tw. 7. (epoetin adj (alpha or alfa)).tw. 8. epo.tw. 9. or/1-8</p>	