**Guideline topic: Obesity Review**

**General comments**

**Search coverage**

**Patient searches**
Databases covered: Medline, Embase, CINAHL, PsycInfo

<table>
<thead>
<tr>
<th>Databases covered</th>
<th>Dates covered</th>
</tr>
</thead>
<tbody>
<tr>
<td>Medline, Embase, CINAHL, PsycInfo</td>
<td>2000-07</td>
</tr>
</tbody>
</table>

Total hits: Pre-sifted result:

Guidelines evaluated using AGREE instrument:

**Guidelines** (run on) Medline, Embase, CINAHL, PsycInfo
The guideline search used the patient stem.

<table>
<thead>
<tr>
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<td>Medline, Embase, CINAHL, Psycinfo and Cochrane.</td>
<td>2000-07</td>
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Total hits: 45

Guidelines evaluated using AGREE instrument:

**Systematic reviews:**
Databases covered: Medline, Embase, CINAHL, Psycinfo and Cochrane.

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<tr>
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Also various websites:
Agency for Health Care Research and Quality (AHRQ)  [http://www.ahrq.gov](http://www.ahrq.gov)
NHS Centre for Reviews and Dissemination  [http://www.york.ac.uk/inst/crd/welcome.htm](http://www.york.ac.uk/inst/crd/welcome.htm)
NHS Quality Improvement Scotland  [http://www.nhshealthquality.org](http://www.nhshealthquality.org)
National Institute for Clinical Excellence (NICE)  [http://www.nice.org.uk/](http://www.nice.org.uk/)

Total hits: 2747

Pre-sifted result: 367

Sifted result: 227

From internet sites: 49
## RCTs

KQ 1: 2003-08  
KQ2: 2005-08  
KQ7-11: 2005-08  
KQ12: 2002-08  
KQ19: 2002-08  
KQ 23 & 24: 2005-08

**Databases covered:** Medline, Embase, CINAHL, PsycInfo (if appropriate) and Cochrane Central  
**Dates covered:** SEE ABOVE – varied for each question

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<td>KQ 23 &amp; 24:</td>
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## Observational studies:

KQ 2&3: 2005-08  
KQ 7-11: 2005-08  
KQ14: 2005-08  
KQ18 liver function tests: 2000-08  
KQ22: 2002-07

**Databases covered:** Medline, Embase, CINAHL, Psycinfo  
**Dates covered:** SEE ABOVE – varied for each question

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## Diagnostic studies

**Databases covered:**  
**Dates covered:**

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## Economic studies: The main stem was used.

**Databases covered:**  
**Dates covered:**  
NEED 2005-08

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No Filter
KQ2&3 commercial diets:
KQ2&3 internet diets 2002-08:
KQ2&3 counterweight: 2004-08
KQ4 motivational interviewing: 2002-08
KQ5B:2002-08
KQ 9&10: 2005-08 (MEDLINE only)
KQ9&10:2000-04 (MEDLINE only)
KQ16: 2002-08 (MEDLINE only)
KQ18: 2005-08
KQ19: 2002-08
KQ19 try 2: 2002-08
KQ20: 2005-08
KQ21: 2002-08
KQ22 2ND try: 1998-2008
KQ25 try 1:  
KQ25 try 2 (MEDLINE only):
KQ25 try 3:
KQ26 (MEDLINE and EMBASE only): 2002-04
KQ26 (MEDLINE and EMBASE only): 05-08

Databases covered: Medline, Embase, CINAHL, Psycinfo (unless otherwise specified)
Dates covered: See above: varies for each KQ.

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Update Searches:

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## 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 Obesity/
2. exp body weight/ or exp overweight/
3. (obes$ or overweight$).tw.
4. exp Bariatric Surgery/
5. bariatric$.tw.
6. exp body weight changes/ or exp weight gain/ or exp weight loss/
7. or/1-6

### Main Stem

1. exp Obesity/
2. exp body weight/ or exp overweight/
3. (obes$ or overweight$).tw.
4. exp Bariatric Surgery/
5. bariatric$.tw.
6. exp body weight changes/ or exp weight gain/ or exp weight loss/
7. exp Overnutrition/
8. exp Body Fat Distribution/
9. exp Waist-Hip Ratio/
10. exp Body Mass Index/
11. or/1-10

### KQ1

1. exp Obesity/
2. exp body weight/ or exp overweight/
3. (obes$ or overweight$).tw.
4. exp body weight changes/ or exp weight gain/ or exp weight loss/
5. exp Overnutrition/
6. exp Body Fat Distribution/
7. exp Waist-Hip Ratio/
8. exp Body Mass Index/
9. or/1-8
10. exp Motor Activity/
11. ((physical$ or motor$) adj2 (activit$ or exerc$)).tw.
12. exp Exercise/
13. exercis$.tw.
14. or/10-13
15. 9 and 14

### KQ2

1. exp Diet Therapy/
2. ((gi or glycemic$) adj2 diet$).tw.
3. (ketogen$ adj2 diet$).tw.
4. exp Diet, Carbohydrate-Restricted/
5. (carbohyd$ adj3 (low$ or restrict$)).tw.
6. ((low$ or restrict$ or deficien$) adj3 (energ$ or calor$)).tw.
7. exp Diet, Fat-Restricted/
8. low-fat.tw.
9. atkin$.tw.
10. south beach.tw.
11. "3 day diet".tw.
12. cambridge diet.tw.
13. or/1-12
KQ2 & 3 (used for RCT/Observational search initially, and then No Filter search)
1. exp Diet Therapy/
2. ((gi or glycemic$) adj2 diet$).tw.
3. (ketogen$ adj2 diet$).tw.
4. exp Diet, Carbohydrate-Restricted/
5. (carbohyd$ adj3 (low$ or restrict$)).tw.
6. ((low$ or restrict$ or deficien$) adj3 (energ$ or calor$)).tw.
7. exp Diet, Fat-Restricted/
8. low-fat.tw.
9. atkin$.tw.
10. south beach.tw.
11. "3 day diet".tw.
12. cambridge diet.tw.
13. or/1-12
15. weight watcher$.tw.
16. scottish slim$.tw.
17. counterweight$.tw.
19. rose$ conl$.tw.
20. or/14-19
21. 13 or 20

KQ2 & 3 Internet Diets
1. ((internet$ or email$ or e-mail$ or web$) adj3 diet$).tw.
2. exp Internet/
3. exp Obesity/
4. exp body weight/ or exp overweight/
5. (obes$ or overweight$).tw.
6. exp Bariatric Surgery/
7. bariatric$.tw.
8. exp body weight changes/ or exp weight gain/ or exp weight loss/
9. exp Overnutrition/
10. exp Body Fat Distribution/
11. exp Waist-Hip Ratio/
12. exp Body Mass Index/
13. or/3-12
14. exp Electronic Mail/
15. 2 or 14
16. 15 and 13
17. 1 or 16
18. limit 17 to yr="2005 - 2008"

KQ2&3 top-up
(commercial adj2 (weight$ or program$ or diet$)).tw.

KQ4 – just motivational interviewing
1. exp Motivation/
2. (motivat$ adj3 interv$).tw.
3. or/1-2
Combined with main stem

KQ5b
1. (bing$ adj2 eating$).tw.
2. exp Bulimia Nervosa/
3. 1 or 2
**Combined with main stem**

**KQ7-11**
1. exp Bariatric Surgery/
2. ((bariatric$ or obes$) adj2 surg$).tw.
3. gastrojejunostom$.tw.
4. gastroplast$.tw.
5. ((gastric or gastro$) adj2 (band$ or bypass$)).tw.
6. or/1-5

**KQ12**
1. (maintain$ adj3 weight$).tw.
2. exp Follow-Up Studies/
3. (follow$ adj2 up).tw.
4. exp peer group/
5. exp Self-Help Groups/
6. ((self-help$ or peer$ or support$) adj2 group$).tw.
7. or/1-6
8. exp Obesity/
9. exp body weight/ or exp overweight/
10. (obes$ or overweight$).tw.
11. exp Bariatric Surgery/
12. bariatric$.tw.
13. exp body weight changes/ or exp weight gain/ or exp weight loss/
14. exp Overnutrition/
15. exp Body Fat Distribution/
16. exp Waist-Hip Ratio/
17. exp Body Mass Index/
18. or/8-17
19. 7 and 18
20. limit 19 to yr="2002 - 2008"

**KQ16**
1. exp Mass Screening/
2. screen$.tw.
3. (self measur$ or self care).tw.
4. self check$.tw.
5. exp Self Care/
6. self assess$.tw.
7. or/1-6
8. exp Obesity/
9. (obes$ or overweight$).tw.
10. exp body weight changes/ or exp weight gain/ or exp weight loss/
11. exp Overnutrition/
12. exp Body Fat Distribution/
13. exp Waist-Hip Ratio/
14. exp Body Mass Index/
15. or/8-14
16. 7 and 15
17. limit 16 to yr="2002 - 2008"

**KQ18 supplementary search – sleep history and hypothyroidism**
1. exp Obesity/
2. exp body weight/ or exp overweight/
3. (obes$ or overweight$).tw.
4. exp Bariatric Surgery/
5. bariatric$.tw.
6. exp body weight changes/ or exp weight gain/ or exp weight loss/
7. Overnutrition/
8. exp Body Fat Distribution/
9. Waist-Hip Ratio/
10. body mass index/
11. or/1-10
12. exp Hypothyroidism/
13. hypothyroid$.tw.
14. exp Sleep Disorders/
15. sleep$.tw.
16. or/12-15
17. 11 and 16
18. limit 17 to yr="2005 - 2008"

KQ18 Diabetes – Used for a systematic review search only
1. exp Diabetes Mellitus/
2. exp Diabetes Complications/
3. diabet$.tw.
4. or/1-3
5. exp Obesity/
6. exp body weight/ or exp overweight/
7. (obes$ or overweight$).tw.
8. exp Bariatric Surgery/
9. bariatric$.tw.
10. exp body weight changes/ or exp weight gain/ or exp weight loss/
11. exp Overnutrition/
12. exp Body Fat Distribution/
13. exp Waist-Hip Ratio/
14. exp Body Mass Index/
15. or/5-14
16. 4 and 15

KQ18: Lipids, Fatty Liver and Liver Function Tests: used for systematic review search
1. exp Lipids/
2. lipid$.tw.
3. exp Fatty Liver/
4. ((fatty or steatosis) adj3 liver$).tw.
5. exp Liver Function Tests/
6. liv$ func$ test$.tw.
7. LFT$.tw.
8. or/1-7

Combined with main stem

KQ18: Fatty Liver and Liver Function Tests: used for observational search only
1. exp Fatty Liver/
2. ((fatty or steatosis) adj3 liver$).tw.
3. exp Liver Function Tests/
4. liv$ func$ test$.tw.
5. LFT$.tw.
6. or/1-5

Combined with main stem

KQ19
1. (maintain$ adj3 weight$).tw.
2. exp Follow-Up Studies/
3. (follow$ adj2 up).tw.
4. exp peer group/
5. exp Self-Help Groups/
6. ((self-help$ or peer$ or support$) adj2 group$).tw.
7. or/1-6
8. exp Obesity/
9. exp body weight/ or exp overweight/
10. (obes$ or overweight$).tw.
11. exp Bariatric Surgery/
12. bariatric$.tw.
13. exp body weight changes/ or exp weight gain/ or exp weight loss/
14. exp Overnutrition/
15. exp Body Fat Distribution/
16. exp Waist-Hip Ratio/
17. exp Body Mass Index/
18. or/8-17
19. 7 and 18
20. limit 19 to yr="2002 - 2008"
Combined with main stem

KQ19 – try 2
1. (read$ adj2 chang$).tw.
2. limit 1 to yr="2002 - 2008"
Combined with main stem

KQ20
1. exp "Referral and Consultation"/
2. referral$.tw.
3. 1 or 2
Combined with main stem

KQ21
1. exp Education, Professional/
2. exp Inservice Training/
3. ((staff$ or prof$) adj2 (train$ or educ$)).tw.
4. or/1-3
Combined with main stem

KQ22
1. (weight$ adj2 cyc$).tw.
2. exp body weight changes/ or exp weight gain/ or exp weight loss/
3. exp Comorbidity/
4. (comorbid$ or co-morbid$).tw.
5. exp Stress, Psychological/
6. ((emotion$ or mental$ or psychol$) adj2 (stress$ or suffer$ or anguish$ or problem$)).tw.
7. (anguish$ or depress$ or stress$ or suffer$).tw.
8. exp Eating Disorders/
10. (anorex$ or bulim$).tw.
11. harm$.tw.
12. or/3-11
13. 2 and 12
14. 1 or 13
15. limit 14 to yr="2002 - 2007"
Combined with main stem

KQ22 top up search
1. (repeat$ adj2 diet$).tw.
2. yoyo diet$.tw.
3. yo-yo diet$.tw.
4. exp body weight changes/ or exp weight gain/ or exp weight loss/
5. risk factors/
6. 4 and 5
7. or/1-3
8. 6 or 7
9. limit 8 to yr="2002 - 2008"

**KQ23 & 24**
1. exp Obesity/
2. exp body weight/ or exp overweight/
3. exp Body Fat Distribution/
4. (obes$ or overweight$).tw.
5. or/1-4
6. exp Adult/
7. 5 not 6

**KQ25**
1. exp Obesity/
2. exp body weight/ or exp overweight/
3. (obes$ or overweight$).tw.
4. exp Bariatric Surgery/
5. bariatric$.tw.
6. exp body weight changes/ or exp weight gain/ or exp weight loss/
7. or/1-6
8. exp Comorbidity/
9. (comorbid$ or co-morbid$).tw.
10. 8 or 9
11. 7 and 10
12. exp Adult/
13. 11 not 12
14. limit 13 to yr="2002 - 2007"

**KQ25 – try 3**
1. exp Anthropometry/
2. exp Treatment Outcome/
3. exp "Outcome Assessment (Health Care)"
4. or/1-3
5. exp Obesity/
6. exp body weight/ or exp overweight/
7. (obes$ or overweight$).tw.
8. exp body weight changes/ or exp weight gain/ or exp weight loss/
9. or/5-8
10. limit 9 to (yr="2005 - 2008" and "all child (0 to 18 years)"
11. 4 and 10

**KQ26**
1. exp body mass index/
2. bmi.tw.
3. body mass index.tw.
4. (waist circum$ or WC).tw.
5. IOTF.tw.
6. international obesity task force.tw.
7. or/1-6
8. exp Obesity/
9. exp body weight/ or exp overweight/
10. exp Body Fat Distribution/
11. (obes$ or overweight$).tw.
12. or/8-11
13. 7 and 12
14. limit 13 to yr="2002 - 2008"
15. exp Adult/
16. 14 not 15
Micronutrients after bariatric surgery
1 exp bariatric surgery/
2 ((bariatric$ or obes$) adj2 surg$).tw.
3 gastrojejunostom$.tw.
4 gastoplast$.tw.
5 ((gastric or gastro$) adj2 (band$ or bypass$)).tw.
6 exp Obesity/su [Surgery]
7 or/1-6
8 exp Micronutrients/
9 micronutrient supplementation.mp.
10 7 and (8 or 9)

Plastic surgery after bariatric surgery

1 exp bariatric surgery/
2 ((bariatric$ or obes$) adj2 surg$).tw.
3 gastrojejunostom$.tw.
4 gastoplast$.tw.
5 ((gastric or gastro$) adj2 (band$ or bypass$)).tw.
6 exp Obesity/su [Surgery]
7 or/1-6
8 Surgery, Plastic/
9 exp Reconstructive Surgical Procedures/
10 7 and (8 or 9)