National Clinical Guidelines Centre

Draft for consultation

Obesity

Identification, assessment and management of overweight and obesity in children, young people and adults

Update of CG43

Appendix F

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Draft for Consultation

Commissioned by the National Institute for Health and Clinical Excellence

Disclaimer
Healthcare professionals are expected to take NICE clinical guidelines fully into account when exercising their clinical judgement. However, the guidance does not override the responsibility of healthcare professionals to make decisions appropriate to the circumstances of each patient, in consultation with the patient and/or their guardian or carer.

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Appendix F: Literature search strategies

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Search strategies used for the obesity guideline are outlined below and were run in accordance with the methodology in the NICE Guidelines Manual 2012.[1]

For search parameters of each database see section F.3 and F.4. Any studies added to the databases after the searches were conducted were not included unless specifically stated in the text. Where possible searches were limited to retrieve material published in English.

Clinical searches

Searches for the **clinical reviews** were run in Medline (OVID), Embase (OVID) and the Cochrane Library (Wiley). Additional searches were run in PsycINFO (OVID) for the questions on very low calorie diets and care packages after bariatric surgery. Usually, searches were constructed in the following way:

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

Health economics searches

Searches for the **health economic reviews** were run in Medline (OVID), Embase (OVID), the NHS Economic Evaluations Database (NHS EED), the Health Technology Assessment (HTA) database and the Health Economic Evaluation Database (HEED). For Medline and Embase an economic filter (instead of a study type filter) was added to the same clinical search strategy. Searches for **quality of life** data were run in Medline (OVID) and Embase (OVID) by adding the filter in section F.2.4 to the population terms.

F.1 Population search strategies

The same population was used throughout the guideline with the following exceptions:

- the question on bariatric surgery where the type 2 diabetes population was used in conjunction with the obesity population

F.1.1 Obesity search terms

Medline search terms

1.	exp *obesity/
2.	exp *overweight/
3.	*weight loss/
4.	exp *weight reduction programs/
5.	(obesity or obese).ti.
6.	(weight adj2 (los* or reduc*)).ti,ab.
7.	(overweight or over-weight or over weight or overeating or over eating or over-eating).ti.
8.	or/1-7

Embase search terms

1.	exp *obesity/
2.	*weight reduction/
3.	(obesity or obese).ti.
4.	(weight adj2 (los* or reduc*)).ti,ab.
5.	(overweight or over-weight or over weight or overeating or over eating or over-eating).ti.
6.	or/1-5

Cochrane search terms

#1.	MeSH descriptor: [obesity] explode all trees
#2.	MeSH descriptor: [overweight] explode all trees
#3.	MeSH descriptor: [weight loss] this term only
#4.	MeSH descriptor: [weight reduction programs] explode all trees
#5.	(obesity or obese):ti
#6.	(weight near/2 (los* or reduc*)):ti,ab
#7.	(overweight or over-weight or over weight or overeating or over eating or over-eating):ti
#8.	#1 or #2 or #3 or #4 or #5 or #6 or #7

PsycINFO search terms

1.	exp "obesity (attitudes toward)"/ or exp obesity/
2.	exp overweight/
3.	weight loss/

4.	(obesity or obese).ti.
5.	(weight adj2 (los* or reduc*)).ti,ab.
6.	(overweight or over-weight or over weight or overeating or over eating or over-eating).ti.
7.	(weight adj reduction program*).ti,ab.
8.	or/1-7

F.1.2 Type 2 diabetes search terms

Medline search terms

1.	exp diabetes mellitus, type 2/
2.	((typ*2 or typ*11 or typ* ii) adj2 diabet*).ti,ab.
3.	niddm.ti,ab.
4.	((adult* or matur* or late or slow or stable) adj2 diabet*).ti,ab.
5.	((non insulin or non-insulin or noninsulin) adj2 (depend* adj2 diabet*)).ti,ab.
6.	or/1-5
7.	exp hyperglycemia/
8.	exp hyperinsulinism/
9.	(impaired adj2 glucose adj2 toleranc*).ti,ab.
10.	(insulin* adj2 resistanc*).ti,ab.
11.	(glucose adj2 intoleranc*).ti,ab.
12.	or/7-11
13.	diabet*.ti,ab.
14.	diabetes mellitus/
15.	13 or 14
16.	12 and 15
17.	6 or 16
18.	15 or 17
19.	exp diabetes mellitus, experimental/
20.	exp diabetes, gestational/
21.	exp diabetic ketoacidosis/
22.	exp prediabetic state/
23.	exp diabetes insipidus/
24.	diabet* insipidus.ti,ab.
25.	or/19-24
26.	18 not 25

Embase search terms

1.	exp *diabetes mellitus, type 2/
2.	((typ*2 or typ*11 or typ* ii) adj2 diabet*).ti,ab.
3.	niddm.ti,ab.
4.	((adult* or matur* or late or slow or stable) adj2 diabet*).ti,ab.
5.	((non insulin or non-insulin or noninsulin) adj2 (depend* adj2 diabet*)).ti,ab.
6.	or/1-5
7.	exp *hyperglycemia/
8.	exp *hyperinsulinism/
9.	(impaired adj2 glucose adj2 toleranc*).ti,ab.

10.	(insulin* adj2 resistanc*).ti,ab.
11.	(glucose adj2 intoleranc*).ti,ab.
12.	or/7-11
13.	diabet*.ti,ab.
14.	*diabetes mellitus/
15.	13 or 14
16.	12 and 15
17.	6 or 16
18.	15 or 17
19.	exp diabetes mellitus, experimental/
20.	exp diabetes, gestational/
21.	exp diabetic ketoacidosis/
22.	exp prediabetic state/
23.	exp diabetes insipidus/
24.	diabet* insipidus.ti,ab.
25.	or/19-24
26.	18 not 25

Cochrane search terms

#1.	MeSH descriptor: [diabetes mellitus, type 2] explode all trees
#2.	((typ*2 or typ*11 or typ* ii) near/2 diabet*):ti,ab
#3.	niddm:ti,ab
#4.	((adult* or matur* or late or slow or stable) near/2 diabet*):ti,ab
#5.	((non insulin or non-insulin or noninsulin) near/2 (depend* near/2 diabet*)):ti,ab
#6.	#1 or #2 or #3 or #4 or #5
#7.	MeSH descriptor: [hyperglycemia] explode all trees
#8.	MeSH descriptor: [hyperinsulinism] explode all trees
#9.	(impaired near/2 glucose near/2 toleranc*):ti,ab
#10.	(insulin* near/2 resistanc*):ti,ab
#11.	(glucose near/2 intoleranc*):ti,ab
#12.	#7 or #8 or #9 or #10 or #11
#13.	diabet*:ti,ab
#14.	MeSH descriptor: [diabetes mellitus] explode all trees
#15.	#13 or #14
#16.	#12 and #15
#17.	#6 or #16
#18	#15 or #17
#19.	MeSH descriptor: [diabetes mellitus, experimental] explode all trees
#20.	MeSH descriptor: [diabetes, gestational] explode all trees
#21.	MeSH descriptor: [diabetic ketoacidosis] explode all trees
#22	MeSH descriptor: [prediabetic state] explode all trees
#23.	MeSH descriptor: [diabetes insipidus] explode all trees
#24.	diabet* insipidus:ti,ab
#25.	#19 or #20 or #21 or #22 or #23 or #24
#26.	#18 not #25

F.2 Study filter search terms

F.2.1 Systematic review (SR) search terms

Medline search terms

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

Embase search terms

1.	systematic review/
2.	meta-analysis/
3.	(meta analy* or metanaly* or metaanaly* or meta regression).ti,ab.
4.	((systematic or evidence) adj2 (review* or overview*)).ti,ab.
5.	(reference list* or bibliograph* or hand search* or manual search* or relevant journals).ab.
6.	(search* adj4 literature).ab.
7.	(medline or pubmed or cochrane or embase or psychlit or psyclit or psychinfo or PsycINFO or cinahl or science citation index or bids or cancerlit).ab.
8.	cochrane.jw.
9.	((multiple treatment* or indirect or mixed) adj2 comparison*).ti,ab.
10.	or/1-10

F.2.2 Randomised controlled studies (RCTs) search terms

Medline search terms

1.	randomized controlled trial.pt.
2.	controlled clinical trial.pt.
3.	randomi#ed.ab.
4.	placebo.ab.
5.	randomly.ab.
6.	clinical trials as topic.sh.
7.	trial.ti.
8.	or/1-7

Embase search terms

1.	random*.ti,ab.
2.	factorial*.ti,ab.
3.	(crossover* or cross over*).ti,ab.
4.	((doubl* or singl*) adj blind*).ti,ab.

5.	(assign* or allocat* or volunteer* or placebo*).ti,ab.
6.	crossover procedure/
7.	double blind procedure/
8.	single blind procedure/
9.	randomized controlled trial/
10.	or/1-9

F.2.3 Health economics (HE) search terms

Medline search terms

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

Embase search terms

1.	health economics/
2.	exp economic evaluation/
3.	exp health care cost/
4.	exp fee/
5.	budget/
6.	funding/
7.	budget*.ti,ab.
8.	cost*.ti.
9.	(economic* or pharmaco?economic*).ti.
10.	(price* or pricing*).ti,ab.
11.	(cost* adj2 (effective* or utilit* or benefit* or minimi* or unit* or estimat* or variable*)).ab.
12.	(financ* or fee or fees).ti,ab.
13.	(value adj2 (money or monetary)).ti,ab.
14.	or/1-13

F.2.4 Quality of life (QOL) search terms

Medline search terms

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

Embase search terms

1.	quality adjusted life year/
2.	"quality of life index"/
3.	short form 12/ or short form 20/ or short form 36/ or short form 8/
4.	sickness impact profile/
5.	(quality adj2 (wellbeing or well-being)).ti,ab.
6.	sickness impact profile.ti,ab.
7.	disability adjusted life.ti,ab.
8.	(qal* or qtime* or qwb* or daly*).ti,ab.
9.	(euroqol* or eq5d* or eq 5d*).ti,ab.
10.	(qol* or hql* or hqol* or h qol* or hrqol* or hr qol*).ti,ab.
11.	(health utility* or utility score* or disutilit*).ti,ab.
12.	(hui or hui1 or hui2 or hui3).ti,ab.
13.	health* year* equivalent*.ti,ab.
14.	(hye or hyes).ti,ab.
15.	rosser.ti,ab.
16.	(willingness to pay or time tradeoff or time trade off or tto or standard gamble*).ti,ab.
17.	(sf36 or sf 36 or short form 36 or shortform 36 or shortform36).ti,ab.
18.	(sf20 or sf 20 or short form 20 or shortform 20 or shortform20).ti,ab.
19.	(sf12 or sf 12 or short form 12 or shortform 12 or shortform12).ti,ab.
20.	(sf8 or sf 8 or short form 8 or shortform 8 or shortform8).ti,ab.
21.	(sf6 or sf 6 or short form 6 or shortform 6 or shortform6).ti,ab.
22.	or/1-21

F.2.5 Excluded studies search terms

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

Medline search terms

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

Embase search terms

1.	letter.pt. or letter/
2.	note.pt.
3.	editorial.pt.
4.	case report/ or case study/
5.	(letter or comment*).ti.
6.	or/1-5
7.	randomized controlled trial/ or random*.ti,ab.
8.	6 not 7
9.	exp animal/ not human/
10.	nonhuman/
11.	exp experimental animal/
12.	exp animal experiment/
13.	exp animal model/
14.	exp rodent/
15.	(rat or rats or mouse or mice).ti.
16.	or/8-15

F.3 Searches for specific questions

F.3.1 Very low calorie diets

One search was conducted for the following three questions:

1. In people who are overweight or obese, what is the clinical and cost effectiveness of very low calorie diets (VLCD) in reducing weight loss?
2. In people who are overweight or obese, what is the safety of VLCD when used to reduce and maintain weight loss?
3. What are effective management strategies for maintaining weight loss after VLCD in people who are overweight or obese?

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

Population	Intervention / exposure	Comparison	Study filter used	Date parameters
Obesity	Very low calorie diets	n/a	The following filters were used in Medline and Embase only: RCT, SR	Medline: 1946-05/02/14 Embase: 1980-05/02/14 Cochrane: Inception-05/02/14 PsycINFO: Inception to 05/02/14

Medline search terms

1.	((very-low-calorie or very low-calorie or very low calorie or very-low-energy or very low-energy or very low energy or VLCD or VLED) adj6 diet*).ti,ab.
2.	((caloric or hypocaloric) adj2 (restrict* or diet*)).ti,ab.
3.	(("800" or "1000") adj kcal*).ti,ab.
4.	or/1-3

Embase search terms

1.	((very-low-calor* or very low-calor* or very low calor* or very-low-energy or very low-energy or very low energy or VLCD or VLED) adj6 diet*).ti,ab.
2.	((caloric or hypocaloric) adj2 (restrict* or diet*)).ti,ab.
3.	(("800" or "1000") adj kcal*).ti,ab.
4.	or/1-3

Cochrane search terms

#1.	((very-low-calor* or very low-calor* or very low calor* or very-low-energy or very low-energy or very low energy or VLCD or VLED) near/6 diet*):ti,ab
#2.	((caloric or hypocaloric) near/2 (restrict* or diet*)):ti,ab
#3.	(("800" or "1000") next kcal*):ti,ab
#4.	#1 or #2 or #3

PsycINFO search terms

1.	((very-low-calorie or very low-calorie or very low calorie or very-low-energy or very low-energy or very low energy or VLCD or VLED) adj6 diet*).ti,ab.
2.	((caloric or hypocaloric) adj2 (restrict* or diet*)).ti,ab.
3.	(("800" or "1000") adj kcal*).ti,ab.

4.	1 or 2 or 3

F.3.2 Bariatric surgery in people with type 2 diabetes

In people with new onset type 2 diabetes (T2D) who are also overweight and obese, what is the clinical and cost effectiveness of bariatric surgery for the management of diabetes?

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

Population	Intervention / exposure	Comparison	Study filter used	Date parameters
Obesity and type 2 diabetes	Bariatric surgery	n/a	The following filters were used in Medline and Embase only: RCT,SR	Medline: 1946-13/11/13 Embase: 1980-13/11/13 Cochrane: Inception-13/11/13

Medline search terms

1.	exp bariatric surgery/
2.	bariatric surg*.ti,ab.
3.	(surg* adj5 bariatric).ti,ab.
4.	(metabol* adj5 surg*).ti,ab.
5.	anti?obesity surg*.ti,ab.
6.	antiobesity surg*.ti,ab.
7.	(obesity adj5 surg*).ti,ab.
8.	(gastroplasty or gastro?gastostomy or "gastric bypass" or "gastric surgery" or "restrictive surgery").ti,ab.
9.	exp gastric bypass/
10.	exp jejunoileal bypass/
11.	((jejuno?ileal or jejunoileal or jejuno ileal) adj bypass).ti,ab.
12.	(gastrointestinal adj (surg* or diversion* or bypass*)).ti,ab.
13.	exp biliopancreatic diversion/
14.	((biliopancreatic or bilio?pancreatic or bilio pancreatic) adj (surg* or diversion* or bypass*)).ti,ab.
15.	((gastric or silicon) adj (band* or sleeve*)).ti,ab.
16.	exp gastroenterostomy/
17.	exp gastrectomy/
18.	(gastroenterostom* or gastrectom*).ti,ab.
19.	exp gastroplasty/
20.	lagb.ti,ab.
21.	stomach stapl*.ti,ab.
22.	(lap band or lap-band).ti,ab.
23.	mason* procedure.ti,ab.
24.	(malabsorptive adj (surg* or procedure*)).ti,ab.
25.	"roux-en-y".ti,ab.
26.	anastomosis, roux-en-y/
27.	duodenal switch*.ti,ab.
28.	obesity/su

29.	exp obesity, morbid/su
30.	or/1-29

Embase search terms

1.	exp *bariatric surgery/
2.	bariatric surg*.ti,ab.
3.	(surg* adj5 bariatric).ti,ab.
4.	(metabol* adj surg*).ti,ab.
5.	((anti?obesity or antiobesity) adj surg*).ti,ab.
6.	(obesity adj5 surg*).ti,ab.
7.	(gastroplasty or gastro?gastostomy or "gastric bypass" or "gastric surgery" or "restrictive surgery").ti,ab.
8.	exp *stomach bypass/
9.	exp *jejunoileal bypass/
10.	((jejuno?ileal or jejunoileal or jejuno ileal) adj bypass).ti,ab.
11.	(gastrointestinal adj (surg* or diversion* or bypass*)).ti,ab.
12.	exp *biliopancreatic bypass/
13.	((biliopancreatic or bilio?pancreatic or bilio pancreatic) adj (surg* or diversion* or bypass*)).ti,ab.
14.	((gastric or silicon) adj (band* or sleeve*)).ti,ab.
15.	exp *gastroenterostomy/
16.	exp *gastrectomy/
17.	(gastroenterostom* or gastrectom*).ti,ab.
18.	exp *gastroplasty/
19.	lagb.ti,ab.
20.	stomach stapl*.ti,ab.
21.	(lap band or lap-band).ti,ab.
22.	mason* procedure.ti,ab.
23.	(malabsorptive adj (surg* or procedure*)).ti,ab.
24.	"roux-en-y".ti,ab.
25.	*anastomosis, roux-en-y/
26.	duodenal switch*.ti,ab.
27.	*obesity/su
28.	exp *obesity, morbid/su
29.	or/1-28

Cochrane search terms

#1.	bariatric surg*:ti,ab
#2.	MeSH descriptor: [bariatric surgery] explode all trees
#3.	(surg* near/5 bariatric):ti,ab
#4.	anti obesity surg*:ti,ab
#5.	antiobesity surg*:ti,ab
#6.	(obesity near/5 surgery):ti,ab
#7.	(obesity near/5 surgical):ti,ab
#8.	(gastroplasty or gastrogastostomy or gastro gastostomy or "gastric bypass" or "gastric surgery" or "restrictive surgery"):ti,ab
#9.	MeSH descriptor: [gastric bypass] explode all trees

#10.	MeSH descriptor: [jejunoileal bypass] explode all trees
#11.	jejuno ileal bypass:ti,ab
#12.	jejunoileal bypass:ti,ab
#13.	gastrointestinal surg*:ti,ab
#14.	gastrointestinal next (diversion* or bypass*):ti,ab
#15.	MeSH descriptor: [biliopancreatic diversion] explode all trees
#16.	biliopancreatic next (surg* or diversion* or bypass*):ti,ab
#17.	bilio pancreatic next (surg* or diversion* or bypass*):ti,ab
#18.	biliopancreatic next (surg* or diversion* or bypass*):ti,ab
#19.	bilio pancreatic next (surg* or diversion* or bypass*):ti,ab
#20.	gastric next (sleeve* or band*):ti,ab
#21.	silicon next (sleeve* or band*):ti,ab
#22.	MeSH descriptor: [gastroenterostomy] explode all trees
#23.	MeSH descriptor: [gastrectomy] explode all trees
#24.	gastrectom* or gastroenterostom*:ti,ab
#25.	MeSH descriptor: [gastroplasty] explode all trees
#26.	LAGB:ti,ab
#27.	stomach stapl*:ti,ab
#28.	lap band*:ti,ab
#29.	lap-band*:ti,ab
#30.	malabsorptive surg*.ti,ab
#31.	mason* procedure:ti,ab
#32.	roux-en-y:ti,ab
#33.	MeSH descriptor: [anastomosis, roux-en-y] explode all trees
#34.	malabsorptive procedure*:ti,ab
#35.	duodenal switch*:ti,ab
#36.	stomach stapl*:ti,ab
#37.	MeSH descriptor: [obesity] explode all trees and with qualifier(s): [surgery - su]
#38.	MeSH descriptor: [obesity, morbid] explode all trees and with qualifier(s): [surgery - su]
#39.	#1 or #2 or #3 or #4 or #5 or #6 or #7 or #8 or #9 or #10 or #11 or #12 or #13 or #14 or #15 or #16 or #17 or #18 or #19 or #20 or #21 or #22 or #23 or #24 or #25 or #26 or #27 or #28 or #29 or #30 or #31 or #32 or #33 or #34 or #35 or #36 or #37 or #38

F.3.3 Care packages after bariatric surgery

The following question was searched using the terms in section F.3.2 on Medline, Embase and the Cochrane Library. In addition a PsycINFO search was conducted as follows.

What is the clinical and cost effectiveness to follow-up care packages after bariatric surgery compared with usual care?

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

Population	Intervention / exposure	Comparison	Study filter used	Date parameters
Obesity	Bariatric surgery See A.3.2 for search terms used in Medline,	n/a	The following filters were used in Medline and Embase only: RCT, SR	All databases: 2006-11/02/14

Population	Intervention / exposure	Comparison	Study filter used	Date parameters
	Embase and Cochrane			

PsycINFO search terms

1.	exp bariatric surgery/
2.	bariatric surg*.ti,ab.
3.	(surg* adj5 bariatric).ti,ab.
4.	(metabol* adj5 surg*).ti,ab.
5.	anti?obesity surg*.ti,ab.
6.	antiobesity surg*.ti,ab.
7.	(obesity adj5 surg*).ti,ab.
8.	(gastroplasty or gastro?gastostomy or "gastric bypass" or "gastric surgery" or "restrictive surgery").ti,ab.
9.	exp gastric bypass/
10.	(jejuno?ileal or jejunoileal or jejuno ileal).ti,ab.
11.	(gastrointestinal adj (surg* or diversion* or bypass*)).ti,ab.
12.	(biliopancreatic or bilio?pancreatic or bilio pancreatic).ti,ab.
13.	((gastric or silicon) adj (band* or sleeve*)).ti,ab.
14.	(gastroenterostom* or gastrectom* or gastroplas*).ti,ab.
15.	lagb.ti,ab.
16.	stomach stapl*.ti,ab.
17.	(lap band or lap-band).ti,ab.
18.	mason* procedure.ti,ab.
19.	(malabsorptive adj (surg* or procedure*)).ti,ab.
20.	"roux-en-y".ti,ab.
21.	duodenal switch*.ti,ab.
22.	or/1-21

F.4 Health economics searches

F.4.1 Obesity search terms

CRD search terms

1.	MeSH descriptor obesity explode all trees
2.	MeSH descriptor overweight explode all trees
3.	MeSH descriptor weight loss explode all trees
4.	MeSH descriptor weight reduction programs explode all trees
5.	(obesity or obese):ti
6.	(weight near2 los*) or (weight near2 reduct*)
7.	((overweight or over-weight or over weight or overeating or over eating or over-eating)):ti
8.	#1 or #2 or #3 or #4 or #5 or #6 or #7

HEED search terms

1.	ax=obesity
2.	ax=obese

3.	ax=overweight
4.	ax=weight and los*
5.	ax=weight and reduc*
6.	ax=over weight
7.	ax=over-weight
8.	ax=overeating
9.	ax=over eating
10.	ax=over-eating
11.	cs=1 or 2 or 3 or 4 or 5 or 6 or 7 or 8 or 9 or 10

F.4.2 Type 2 diabetes search terms

CRD search terms

1.	MeSH descriptor diabetes mellitus, type 2 explode all trees
2.	(((typ*2 or typ*11 or typ* ii) near2 diabet*))
3.	(niddm)
4.	(((adult* or matur* or late or slow or stable) near2 diabet*))
5.	(((non insulin or non-insulin or noninsulin) near2 (depend* near2 diabet*)))
6.	#1 or #2 or #3 or #4 or #5
7.	MeSH descriptor hyperglycemia explode all trees
8.	MeSH descriptor hyperinsulinism explode all trees
9.	((impaired near2 glucose near2 toleranc*))
10.	((insulin* near2 resistanc*))
11.	((glucose near2 intoleranc*))
12.	#7 or #8 or #9 or #10 or #11
13.	(diabet*)
14.	MeSH descriptor diabetes mellitus explode all trees
15.	#13 or #14
16.	#12 and #15
17.	#6 or #16
18.	#15 or #17
19.	MeSH descriptor diabetes mellitus, experimental explode all trees
20.	MeSH descriptor diabetes, gestational explode all trees
21.	MeSH descriptor diabetic ketoacidosis explode all trees
22.	MeSH descriptor prediabetic state explode all trees
23.	MeSH descriptor diabetes insipidus explode all trees
24.	(diabet* insipidus)
25.	#19 or #20 or #21 or #22 or #23 or #24
26.	#18 not #25

HEED search terms

1.	AX=diabet*

F.4.3 Very low calorie diets

Population	Intervention / exposure	Comparison	Study filter used	Date parameters

Population	Intervention / exposure	Comparison	Study filter used	Date parameters
Obesity	Very low calorie diets See A3.1 for search terms used in Medline & Embase	n/a	The following filters were used in Medline and Embase only: HE	Medline: 1946-06/02/14 Embase: 1980-06/02/14 CRD & HEED: Inception-06/02/14

CRD search terms

1.	(very-low-calor* or very low-calor* or very low calor*)
2.	(very-low-energy or very low-energy or very low energy)
3.	(vlcd or vled)
4.	(caloric near2 restrict*) or (caloric near2 diet*)
5.	(hypocaloric near2 restrict*) or (hypocaloric near2 diet*)
6.	(800 near1 kcal*) or (1000 near1 kcal*)
7.	(#1 or #2 or #3 or #4 or #5 or #6)

HEED search terms

1.	ax=very-low-calor*
2.	ax=very low-calor*
3.	ax=very low calor*
4.	ax=very-low-energy
5.	ax=very low-energy
6.	ax=very low energy
7.	ax=caloric
8.	ax=hypocaloric
9.	ax= 800 kcal*
10.	ax=100 kcal*
11.	cs=1 or 2 or 3 or 4 or 5 or 6 or 7 or 8 or 9 or 10

F.4.4 Bariatric surgery in people with type 2 diabetes

Population	Intervention / exposure	Comparison	Study filter used	Date parameters
Obesity and type 2 diabetes	n/a	n/a	The following filters were used in Medline and Embase only: HE	Medline: 1946-18/11/13 Embase: 1980-18/11/13 CRD & HEED: Inception-18/11/13

F.4.5 Care packages after bariatric surgery

Population	Intervention / exposure	Comparison	Study filter used	Date parameters
Obesity	Bariatric surgery See A3.2 for search terms used in Medline & Embase	n/a	The following filters were used in Medline and Embase only: HE	All databases: 2006-11/02/14

CRD search terms

1.	MeSH descriptor bariatric surgery explode all trees
2.	MeSH descriptor biliopancreatic diversion explode all trees
3.	MeSH descriptor gastric bypass explode all trees
4.	MeSH descriptor jejunoileal bypass explode all trees
5.	MeSH descriptor gastroplasty explode all trees
6.	MeSH descriptor gastrectomy explode all trees
7.	(bariatric near5 surg*) or (metabolic near5 surg*) or (obesity near5 surg*)
8.	(gastric bypass) or (gastric surgery) or (restrictive surgery)
9.	(gastric band*) or (gastric sleeve*)
10.	(silicon band*) or (silicon sleeve*)
11.	#1 or #2 or #3 or #4 or #5 or #6 or #7 or #8 or #9 or #10

HEED search terms

1.	ax=bariatric and surg*
2.	ax=metabolic and surg*
3.	ax=gastric and bypass*
4.	ax=gastric and surg*
5.	ax=restrtive and surg*
6.	ax=gastric and band*
7.	ax=gastric and sleeve*
8.	ax=biliopancreatic
9.	ax=jejunoileal
10.	ax=gastroplasty
11.	ax=gastrectomy
12.	cs=1 or 2 or 3 or 4 or 5 or 6 or 7 or 8 or 9 or 10 or 11

F.4.6 Quality of life

Population	Intervention / exposure	Comparison	Study filter used	Date parameters
Obesity			The following filters were used in Medline and Embase only: QOL	Medline: 1946-19/02/14 Embase: 1974-19/02/14

F.5 Reference

1 National Institute for Health and Clinical Excellence. The guidelines manual. London: National Institute for Health and Clinical Excellence; 2012. Available from: http://publications.nice.org.uk/the-guidelines-manual-pmg6/