

**Obesity:
update searches and screening
for
Universitätsklinikum Schleswig-Holstein/Campus Kiel**



Kleijnen Systematic Reviews Ltd

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1. PROJECT OBJECTIVES

A key aim of the research project “Making SDM a reality” is to inform patients as part of shared decision making (SDM).

Kleijnen Systematic Reviews (KSR) Ltd has prepared an evidence report with a synthesis of the evidence of obesity.

2. METHODS

LITERATURE SEARCHES

Literature searches were carried out to identify relevant systematic reviews and evidence-based guidelines on obesity and surgical options, specifically roux-en-y gastric bypass, sleeve gastrectomy, laparoscopic adjustable gastric banding and mini bypasses to update the 2019 evidence report.

The search strategies were developed specifically for each database and the keywords adapted according to the configuration of each database. Searches were limited by date range for systematic reviews and guidelines to 2019-2021. Searches were not limited by language or publication status.

Systematic reviews and guidelines

The following systematic review and health technology assessment specific databases were searched:

- Cochrane Database of Systematic Reviews (CDSR) (Wiley): issue 11 of 12, November 2021
- KSR Evidence (Internet) (<https://ksrevidence.com/>): 2019-2021
- Epistemonikos (Internet) (<https://www.epistemonikos.org/>): 2019-2021
- International HTA Database (INAHTA) (<https://database.inahta.org/>): 2019-2021

The following guidelines resources were searched:

- Guidelines International Network (GIN) (Internet) (<https://www.g-i-n.net/home>): 2019-2021
- NICE Evidence (Internet) (www.evidence.nhs.uk/): 2019-2021
- NICE Guidance (Internet) (<https://www.nice.org.uk/guidance>): 2019-2021
- ECRI Guidelines Trust (Internet) (<https://guidelines.ecri.org/>): 2019-2021
- Trip Database (<https://www.tripdatabase.com/>): 2019-2021
- Canadian Agency for Drugs and Technologies in Health (CADTH) (www.cadth.ca): 2019-2021

Full details of all search strategies are presented in Appendix 1.

Handling of citations

References identified from the searches were downloaded into EndNote bibliographic management software for further assessment and handling.

Supplementary searches

The bibliographies of included studies and review articles were also checked for additional relevant articles.

PRIORITISATION

During formal screening of titles and abstracts, studies were subject to a prioritisation process whereby the recency e.g., to most up-to-date clinical practice guidelines (CPG), methodological quality e.g., Cochrane systematic review (CSR), quality of the analyses per outcome (e.g., ratio of RCTs to observational studies), the number of included RCTs, the breadth of the timepoints reported etc. were considered to further prioritise which studies would be used to inform analyses. Studies were categorised into the following three categories: '1' = German, American, European or similar CPG; '2' = CSR or similar quality SR; '3' = potentially lower/other quality SR.

3. RESULTS

The original KSR searches were conducted between 30 April to 1 May 2019; and of the 2,041 references screened, 11 studies were deemed eligible. In the current update, a total of 1,159 records were retrieved from the electronic literature searches (Appendix 1). After the removal of duplicate records 762 titles and abstracts were screened by two reviewers. Three hundred and fifty-seven records were found to be potentially eligible and were longlisted after a consensus. Of those, four were short-listed and included in the analyses (Table 1).¹⁻⁴ See also Table 2 for an overview of primary studies included in the identified SRs/CPGs.

UPDATE – Concluding Assessment by SHARE-TO-CARE Evidence Team (19/05/22)

Based on the update searches conducted by KSR Ltd in November 2021, we want to highlight the following aspects: The newly retrieved records, e.g., the comprehensive HTA report by Louwagie et al. (2019), largely correspond with the current version of the decision aid. In general, RCT long-term data on mortality comparing surgical and non-surgical treatments are missing. Since the German AWMF guideline on obesity management is currently under revision, no changes of the decision aid are planned in advance of this publication.

Conclusion regarding the evidence report: No evidence update required. The present evidence report (November, 2019) remains valid until further notice.

Table 1 Evidence sources

| Study/year | Evidence type | Primary studies | Number of studies | Intervention(s) | Comparator(s) | Outcome(s) | Date searched | Conclusions |
|--|---------------|-----------------|-------------------|---|--------------------|------------|---|---|
| Semlitsch 2019 ¹ | SR | CPG | 19 | Multiple | Multiple | Multiple | February 2019 | "[...] there was considerable agreement in international, evidence-based guidelines on how multidisciplinary management of overweight and obesity in primary care should be performed." |
| Louwagie 2019 ² | SR | CPG,SR,RCT | 10* | Roux-en-Y gastric bypass, laparoscopic adjustable gastric banding | Sleeve gastrectomy | Multiple | September 2018 for CPG, November 1, 2013 for SR and July 1, 2015 for RCTs | "A substantial and durable weight loss has been documented for RYGB, LAGB and SG" (see also section 6 of the report) |
| Department of Veterans Affairs 2020 ³ | CPG | SR,RCT | 107 | Bariatric surgery | Multiple | Multiple | April 8, 2019 | See section VII, appendices G,H,I of the CPG |
| Powell-Wiley 2021 ⁴ | CPG | SR,RCT | 12 [^] | Multiple | Multiple | Multiple | N/M | "Obesity is recognized as a heterogeneous condition in which individuals with similar BMIs may have distinct metabolic and cardiovascular disease risk profiles" |
| <p>* = pertains to comparative effectiveness of different surgical techniques. [^] = only studies published after 2015 were extracted BMI = body mass index; CPG = clinical practice guideline; LAGB = Laparoscopic adjustable gastric banding; N/M = not mentioned; OS = observational study; RCT = randomised controlled trial; RYGB = Roux-en-Y Gastric Bypass; SG = Sleeve gastrectomy; SR = systematic review.</p> | | | | | | | | |

Table 2 Overview of primary studies included in the identified SRs/CPGs

| Study/year | Primary study(ies) | Reference (first author & journal) |
|-----------------------------|--------------------|---|
| Semlitsch 2019 ¹ | CPG | <ol style="list-style-type: none"> 1. Garvey WT, Mechanick JI, Brett EM, et al. American Association of Clinical Endocrinologists and American College of Endocrinology comprehensive clinical practice guidelines for medical care of patients with obesity—executive summary. <i>Endocr Pract.</i> 2016;22(7):842-884. 2. Garvey WT, Mechanick JI, Brett EM, et al. American Association of Clinical Endocrinologists and American College of Endocrinology comprehensive clinical practice guidelines for medical care of patients with obesity. <i>Endocr Pract.</i> 2016;22(Suppl 3):1-203. 3. Deutsche Gesellschaft für Allgemein- und Vizeralchirurgie (DGAV). Chirurgie der Adipositas und metabolischer Erkrankungen, version 2.3. https://www.awmf.org/uploads/tx_szleitlinien/088-001l_S3_Chirurgie-Adipositas-metabolische-Erkrankungen_2018-02.pdf. Published 2010. Updated February, 2018. Accessed March 01, 2019. 4. Curry SJ, Krist AH, Owens DK, et al. Behavioral weight loss interventions to prevent obesity-related morbidity and mortality in adults: US preventive services task force recommendation statement. <i>JAMA.</i> 2018;320(11):1163-1171. 5. University of Michigan Health System. Obesity prevention and management. https://www.med.umich.edu/1info/FHP/practiceguides/obesity/obesity.pdf. Published December 2004. Updated July, 2016. Accessed March 01, 2019. 6. Mechanick JI, Youdim A, Jones DB, et al. Clinical practice guidelines for the perioperative nutritional, metabolic, and nonsurgical support of the bariatric surgery patient—2013 update: cosponsored by American Association of Clinical Endocrinologists, the Obesity Society, and American Society for Metabolic & Bariatric Surgery. <i>Endocr Pract.</i> 2013;19:337-372. 7. Gonzalez-Campoy JM, St Jeor ST, Castorino K, et al. Clinical practice guidelines for healthy eating for the prevention and treatment of metabolic and endocrine diseases in adults: cosponsored by the American Association of Clinical Endocrinologists/the American College of Endocrinology and the Obesity Society. <i>Endocr Pract.</i> 2013;19(Suppl 3): 1-82. 8. Gonzalez-Campoy JM, St Jeor ST, Castorino K, et al. Clinical practice guidelines for healthy eating for the prevention and treatment of metabolic and endocrine diseases in adults: cosponsored by the American Association of Clinical Endocrinologists/the American College of Endocrinology and the Obesity Society: executive summary. <i>Endocr Pract.</i> 2013;19:875-887. 9. Millen BE, Wolongevicz DM, Nonas CA, Lichtenstein AH. 2013 American Heart Association/American College of Cardiology/the Obesity Society Guideline for the Management of Overweight and Obesity in Adults: |

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| | | <p>implications and new opportunities for registered dietitian nutritionists. <i>J Acad Nutr Diet.</i> 2014;114(11):1730-1735.</p> <p>10. American College of Cardiology/American Heart Association Task Force on Practice Guidelines—Obesity Expert Panel, Jensen MD, Ryan DH, et al. Executive summary: Guidelines (2013) for the management of overweight and obesity in adults. <i>Obesity (Silver Spring, Md).</i> 2014;22(Suppl 2):S5-S39.</p> <p>11. American College of Cardiology/American Heart Association Task Force on Practice Guidelines—Obesity Expert Panel. Guidelines (2013) for managing overweight and obesity in adults. Preface to the Expert Panel Report. <i>Obesity (Silver Spring, Md).</i> 2014;22(Suppl 2):S40.</p> <p>12. American Heart Association, American College of Cardiology, Obesity Society. Reprint: 2013 AHA/ACC/TOS Guideline for the Management of Overweight and Obesity in Adults. <i>J Am Pharm Assoc.</i> 2014;63: 2985-3023.</p> <p>13. Jensen MD, Ryan DH, Apovian CM, et al. 2013 AHA/ACC/TOS guideline for the management of overweight and obesity in adults: a report of the American College of Cardiology/American Heart Association Task Force on Practice Guidelines and The Obesity Society. <i>J Am Coll Cardiol.</i> 2014;63(25):2985-3023.</p> <p>14. American College of Cardiology/American Heart Association Task Force on Practice Guidelines—Obesity Expert Panel. Expert Panel Report: Guidelines (2013) for the management of overweight and obesity in adults. <i>Obesity (Silver Spring, Md).</i> 2014;22(Suppl 2):S41-S410.</p> <p>15. Jensen MD, Ryan DH, Apovian CM, et al. 2013 AHA/ACC/TOS guideline for the management of overweight and obesity in adults: a report of the American College of Cardiology/American Heart Association Task Force on Practice Guidelines and The Obesity Society. <i>Circulation.</i> 2014;129(25 suppl 2):S102-S138.</p> <p>16. Academy of Nutrition and Dietetics. Adult weight management evidence-based nutrition practice guideline. https://www.andeal.org/topic.cfm?menu=5276. Published May, 2006. Updated October, 2014. Accessed March 20, 2019.</p> <p>17. Brauer P, Connor Gorber S, Shaw E, et al. Recommendations for prevention of weight gain and use of behavioural and pharmacologic interventions to manage overweight and obesity in adults in primary care. <i>CMAJ: Can Med Assoc J.</i> 2015;187(3):184-195.</p> <p>18. Deutsche Adipositas-Gesellschaft (DAG). Adipositas - Prävention und Therapie, Version 2.0. http://www.awmf.org/leitlinien/detail/II/050-001.html. Published 2007. Updated April 30, 2014. Accessed March 20, 2019.</p> <p>19. Apovian CM, Aronne LJ, Bessesen DH, et al. Pharmacological management of obesity: an Endocrine Society clinical practice guideline. <i>J Clin Endocrinol Metab.</i> 2015;100(2):342-362.</p> |

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| | | <p>20. Gargallo Fernandez Manuel M, Breton Lesmes I, Basulto Marset J, Quiles Izquierdo J, Formiguera Sala X, Salas-Salvado J. Evidence-based nutritional recommendations for the prevention and treatment of overweight and obesity in adults (FESNAD-SEEDO consensus document). The role of diet in obesity treatment (III/III). <i>Nutr Hosp.</i> 2012;27(3):833-864.</p> <p>21. Gargallo Fernandez M, Basulto Marset J, Breton Lesmes I, Quiles Izquierdo J, Formiguera Sala X, Salas-Salvado J. Evidence-based nutritional recommendations for the prevention and treatment of overweight and obesity in adults (FESNAD-SEEDO consensus document). Methodology and executive summary (I/III). <i>Nutr Hosp.</i> 2012;27(3):789-799.</p> <p>22. Fitch A, Everling L, Fox C, et al. Institute for Clinical Systems Improvement. Prevention and management of obesity for adults. https://www.icsi.org/guidelines/. Published December, 2004. Updated May, 2013. Accessed April 18, 2016.</p> <p>23. Fried M, Yumuk V, Oppert JM, et al. Interdisciplinary European Guidelines on metabolic and bariatric surgery. <i>Obes Facts.</i> 2013;6(5):449-468.</p> <p>24. Fried M, Yumuk V, Oppert JM, et al. Interdisciplinary European guidelines on metabolic and bariatric surgery. <i>Obes Surg.</i> 2014;24(1):42-55.</p> <p>25. National Health and Medical Research Council. Clinical practice guidelines for the management of overweight and obesity in adults, adolescents and children in Australia. https://www.nhmrc.gov.au/about-us/publications/clinical-practice-guidelines-management-overweight-and-obesity#block-views-block-file-attachments-content-block-1. Published October, 2013. Updated October, 2013. Accessed March 20, 2019.</p> <p>26. National Institute for Health and Care Excellence (NICE). Obesity: identification, assessment and management (CG189). https://www.nice.org.uk/guidance/cg189. Published November 27, 2014. Updated November 27, 2014. Accessed March 20, 2019.</p> <p>27. Stegenga H, Haines A, Jones K, Wilding J. Identification, assessment, and management of overweight and obesity: summary of updated NICE guidance. <i>BMJ (Clinical research ed).</i> 2014;349:g6608.</p> <p>28. National Institute for Health and Care Excellence (NICE). Weight management: lifestyle services for overweight or obese adults (PH53). https://www.nice.org.uk/guidance/ph53. Published May 28, 2014. Updated May 28, 2014. Accessed March 20, 2019.</p> <p>29. National Institute for Health and Care Excellence (NICE). Obesity prevention (CG43). https://www.nice.org.uk/guidance/cg43. Published December 13, 2006. Updated March, 2015. Accessed March 20, 2019.</p> |

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| Study/year | Primary study(ies) | Reference (first author & journal) |
|---|--------------------|--|
| | | <ol style="list-style-type: none"> 5. Ma WQ, Sun XJ, Wang Y, Han XQ, Zhu Y, Liu NF. Does body mass index truly affect mortality and cardiovascular outcomes in patients after coronary revascularization with percutaneous coronary intervention or coronary artery bypass graft? A systematic review and network meta-analysis. <i>Obes Rev.</i> 2018;19:1236–1247. 6. Aune D, Schlesinger S, Norat T, Riboli E. Body mass index, abdominal fatness, and the risk of sudden cardiac death: a systematic review and dose-response meta-analysis of prospective studies. <i>Eur J Epidemiol.</i> 2018;33:711–722 7. van Gemert WA, Peeters PH, May AM, Doornbos AJH, Elias SG, van der Palen J, Veldhuis W, Stapper M, Schuit JA, Monninkhof EM. Effect of diet with or without exercise on abdominal fat in postmenopausal women: a randomised trial. <i>BMC Public Health.</i> 2019;19:174 8. Fernandez-del-Valle M, Gonzales JU, Kloiber S, Mitra S, Klingensmith J, Larumbe-Zabala E. Effects of resistance training on MRI-derived epicardial fat volume and arterial stiffness in women with obesity: a randomized pilot study. <i>Eur J Appl Physiol.</i> 2018;118:1231–1240. 9. Gregg EW, Jakicic JM, Lewis CE, Regensteiner JG, Pi-Sunyer X, Wing RR, Curtis JM, Yanovski SZ, Evans M, Lang W, et al; Look AHEAD Research Group. Association of the magnitude of weight loss and changes in physical fitness with long-term cardiovascular disease outcomes in overweight or obese people with type 2 diabetes: a post-hoc analysis of the Look AHEAD randomised clinical trial. <i>Lancet Diabetes Endocrinol.</i> 2016;4:913–921 10. Nissen SE, Wolski KE, Prcela L, Wadden T, Buse JB, Bakris G, Perez A, Smith SR. Effect of naltrexone-bupropion on major adverse cardiovascular events in overweight and obese patients with cardiovascular risk factors: a randomized clinical trial. <i>JAMA.</i> 2016;315:990–1004. 11. Margulies KB, Hernandez AF, Redfield MM, Givertz MM, Oliveira GH, Cole R, Mann DL, Whellan DJ, Kiernan MS, Felker GM, et al; NHLBI Heart Failure Clinical Research Network. Effects of liraglutide on clinical stability among patients with advanced heart failure and reduced ejection fraction: a randomized clinical trial. <i>JAMA.</i> 2016;316:500–508 12. Jorsal A, Kistorp C, Holmager P, Tougaard RS, Nielsen R, Hänselmann A, Nilsson B, Møller JE, Hjort J, Rasmussen J, et al. Effect of liraglutide, a glucagon-like peptide-1 analogue, on left ventricular function in stable chronic heart failure patients with and without diabetes (LIVE): a multicentre, double-blind, randomised, placebo-controlled trial. <i>Eur J Heart Fail.</i> 2017;19:69–77. |
| <p>* = pertains to comparative effectiveness of different surgical techniques ** = Pertains to studies on bariatric surgery ^ = only studies published after 2015 were extracted CPG = clinical practice guideline; OS = observational study; RCT = randomised controlled trial; SR = systematic review.</p> | | |

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APPENDIX 1: SEARCH STRATEGIES

Table 3. Systematic reviews and guideline search results

| Database | Dates | Results |
|--|--------------------------------|-------------|
| CDSR | 2019 - Issue 11, November 2021 | 10 |
| KSR Evidence | 2019-2021 | 463 |
| Epistemonikos | 2019-2021 | 365 |
| INAHTA | 2019-2021 | 4 |
| NICE Evidence | 01/01/2019 - 17/11/2021 | 268 |
| NICE Guidance | 2019-2021 | 6 |
| GIN | 2019-2021 | 11 |
| ECRI | 2019-2021 | 8 |
| Trip | 2019-2021 | 22 |
| CADTH | 2019-2021 | 2 |
| Total | | 1159 |
| Total after de-duplication | | 762 |
| Total after de-duplication v original results | | 654 |

Search strategies

Cochrane Database of Systematic Reviews (CDSR) (Wiley): Issue 11 of 12, November 2021 Searched: 17.11.21

- #1 MeSH descriptor: [Obesity] explode all trees 15037
- #2 MeSH descriptor: [Body Weight] this term only 8695
- #3 MeSH descriptor: [Weight Loss] this term only 6535
- #4 MeSH descriptor: [Weight Gain] this term only 2651
- #5 MeSH descriptor: [Body Weight Changes] this term only 101
- #6 MeSH descriptor: [Body Mass Index] this term only 10623
- #7 ((BMI or "body mass ind*") NEAR/2 (great* or over or gain* or los* or chang*)):ti,ab,kw 2343
- #8 (obesity or obese or antiobes* or overweight or "over weight" or "over eat*" or overeat* or "weight reduc*" or "weight chang*" or "weight control*" or fatness):ti,ab,kw 50698
- #9 ((weight NEAR/2 gain*) or (weight NEAR/2 los*) or (body NEAR/2 (composition or fat* or weight or adipos*)):ti,ab,kw 82861
- #10 #1 or #2 or #3 or #4 or #5 or #6 or #7 or #8 or #9 112317
- #11 MeSH descriptor: [Bariatric Surgery] this term only 353
- #12 (bariatric NEAR/5 (surg* or operation* or procedure* or treatment\$)):ti,ab,kw 2779
- #13 (obesity NEAR/5 (surg* or operation* or procedure*)):ti,ab,kw 2478
- #14 MeSH descriptor: [Gastric Bypass] this term only 532
- #15 MeSH descriptor: [Anastomosis, Roux-en-Y] this term only 133

- #16 ((Gastric NEAR/4 (band* or sleev* or stapl* or resection* or reduction* or stimulation or bypass)) or RYGB or "roux-en-y"):ti,ab,kw 3538
- #17 MeSH descriptor: [Gastrectomy] this term only 1084
- #18 (Gastrectom* or LAG or SG):ti,ab,kw 7696
- #19 (mini NEAR/2 bypass) or MGB:ti,ab,kw 141
- #20 #11 or #12 or #13 or #14 or #15 or #16 or #17 or #18 or #19 12348
- #21 **#10 and #20 with Cochrane Library publication date Between Jan 2019 and Dec 2021, in Cochrane Reviews, Cochrane Protocols 10**

KSR Evidence (Internet): Database last updated 2021 Nov 17

www.ksrevidence.com

Searched 17.11.21

- 1 ((BMI or "body mass ind*") near/3 (great* or over or gain* or los* or chang*)) in All text 534 results
- 2 obesity or obese or antiobes* or overweight or "over weight" or "over eat*" or overeat* or "weight reduc*" or "weight chang*" or "weight control*" or fatness in All text 6714 results
- 3 ((weight gain*) or (weight los*) or (body near/2 (composition or fat* or weight or adipos*))) in All text 5909 results
- 4 #1 or #2 or #3 in All text 10096 results
- 5 (bariatric near/5 (surg* or operation* or procedure* or treatment*)) in All text 824 results
- 6 (obesity near/5 (surg* or operation* or procedure*)) in All text 462 results
- 7 ((Gastric near/4 (band* or sleev* or stapl* or resection* or reduction* or stimulation or bypass)) or RYGB or "roux-en-y") in All text 571 results
- 8 gastrectom* or LAG or SG in All text 327 results
- 9 mini bypass in All text 34 results
- 10 #5 or #6 or #7 or #8 or #9 in All text 1495 results
- 11 #4 and #10 in All text Date published: 2019 - 2021 463 results**

Search run Wed Nov 17 2021

Epistemonikos (Internet): up to 2021 Nov 17

<https://www.epistemonikos.org/en/>

Searched: 17.11.21

(title:(((title:(((BMI OR "body mass ind*") AND (great* OR over OR gain* OR los* OR chang*))) OR abstract:(((BMI OR "body mass ind*") AND (great* OR over OR gain* OR los* OR chang*))) OR (title:((obesity OR obese OR antiobes* OR overweight OR "over weight" OR "over eat*" OR overeat* OR "weight reduc*" OR "weight chang*" OR "weight control*" OR fatness)) OR abstract:((obesity OR obese OR antiobes* OR overweight OR "over weight" OR "over eat*" OR overeat* OR "weight reduc*" OR "weight chang*" OR "weight control*" OR fatness))) OR (title:((weight AND gain*) OR (weight AND los*) OR (body AND (composition OR fat* OR weight OR adipos*))) OR abstract:((weight AND gain*) OR (weight AND los*) OR (body AND (composition OR fat* OR weight OR adipos*)))) AND (title:((bariatric AND (surg* OR operation* OR procedure* OR treatment*)) OR (obesity AND

(surg* OR operation* OR procedure*) OR ((Gastric AND (band* OR sleeve* OR stapl* OR resection* OR reduction* OR stimulation OR bypass)) OR RYGB OR "roux-en-y") OR (Gastrectom* OR LAG OR SG) OR (mini AND bypass) OR MGB) OR abstract:((bariatric AND (surg* OR operation* OR procedure* OR treatment*)) OR (obesity AND (surg* OR operation* OR procedure*)) OR ((Gastric AND (band* OR sleeve* OR stapl* OR resection* OR reduction* OR stimulation OR bypass)) OR RYGB OR "roux-en-y") OR (Gastrectom* OR LAG OR SG) OR (mini AND bypass) OR MGB))) OR abstract:((title:(((BMI OR "body mass ind*") AND (great* OR over OR gain* OR los* OR chang*))) OR abstract:(((BMI OR "body mass ind*") AND (great* OR over OR gain* OR los* OR chang*)))) OR (title:((obesity OR obese OR antiobes* OR overweight OR "over weight" OR "over eat*" OR overeat* OR "weight reduc*" OR "weight chang*" OR "weight control*" OR fatness)) OR abstract:((obesity OR obese OR antiobes* OR overweight OR "over weight" OR "over eat*" OR overeat* OR "weight reduc*" OR "weight chang*" OR "weight control*" OR fatness))) OR (title:((weight AND gain*) OR (weight AND los*) OR (body AND (composition OR fat* OR weight OR adipos*))) OR abstract:((weight AND gain*) OR (weight AND los*) OR (body AND (composition OR fat* OR weight OR adipos*)))) AND (title:((bariatric AND (surg* OR operation* OR procedure* OR treatment*)) OR (obesity AND (surg* OR operation* OR procedure*)) OR ((Gastric AND (band* OR sleeve* OR stapl* OR resection* OR reduction* OR stimulation OR bypass)) OR RYGB OR "roux-en-y") OR (Gastrectom* OR LAG OR SG) OR (mini AND bypass) OR MGB) OR abstract:((bariatric AND (surg* OR operation* OR procedure* OR treatment*)) OR (obesity AND (surg* OR operation* OR procedure*)) OR ((Gastric AND (band* OR sleeve* OR stapl* OR resection* OR reduction* OR stimulation OR bypass)) OR RYGB OR "roux-en-y") OR (Gastrectom* OR LAG OR SG) OR (mini AND bypass) OR MGB)))) Publication type: Systematic Review; Publication year: Custom year range: From 2019 To 2021

365 records retrieved

International HTA Database (INAHTA): up to 17 November 2021

<https://database.inahta.org/>

Searched: 17.11.21

| | | |
|----|--|-----|
| 1 | "Obesity"[mh] | 214 |
| 2 | "Body Weight"[mh] | 11 |
| 3 | "Weight Loss"[mh] | 72 |
| 4 | "Weight Gain"[mh] | 6 |
| 5 | "Body Weight Changes"[mh] | 0 |
| 6 | "Body Mass Index"[mh] | 21 |
| 7 | BMI or "body mass index" | 80 |
| 8 | obesity or obese or antiobese or antiobesity or overweight or "over weight" or "over eat" or overeat or "weight reduce" or "weight reduction" or "weight change" or "weight control*" or fatness | 289 |
| 9 | "weight gain" or " weight loss" or "weight losing" or "weight lost" or " body composition" or "body fat" or "body weight" or adiposity or adipose | 223 |
| 10 | #9 OR #8 OR #7 OR #6 OR #5 OR #4 OR #3 OR #2 OR #1 | 435 |
| 11 | "Bariatric Surgery"[mh] | 32 |

- 12 "bariatric surgery" or "bariatric surgeries" or "bariatric surgical" or "bariatric operation" or "bariatric operations" or "bariatric procedure" or "bariatric procedures" or "bariatric treatment" or "bariatric treatments" 75
- 13 "obesity surgery" or "obesity surgeries" or "obesity surgical" or "obesity operation" or "obesity operations" or "obesity procedure" or "obesity procedures" 3
- 14 "Gastric Bypass"[mh] 36
- 15 "Anastomosis, Roux-en-Y"[mh] 5
- 16 "gastric band" or "gastric bands" or "gastric sleeve" or "gastric sleeves" or "gastric staple" or "gastric staples" or "gastric resection" or "gastric resections" or "gastric reduction" or "gastric reductions" or "gastric stimulation" or "gastric bypass" or RYGB or "roux-en-y" 44
- 17 "Gastrectomy"[mh] 9
- 18 gastrectomy or gastrectomies or LAG 30
- 19 "mini bypass" or MGB 0
- 20 #19 OR #18 OR #17 OR #16 OR #15 OR #14 OR #13 OR #12 OR #11 130
- 21 #20 AND #10 YEAR 2019 TO 2021 113

NICE Evidence Search (Internet): 15.11.21

<https://www.evidence.nhs.uk/>

Searched 17.11.21

| Search terms | Results (Guidance; Systematic Reviews): 01/01/2019-17/11/2021 |
|-----------------------------------|---|
| Bariatric surgery obesity | 126 |
| "Gastric bypass" | 86 |
| "weight reduction" surgery | 20 |
| Roux-en-y obesity | 38 |
| "gastric band" | 6 |
| "gastric sleeve" | 3 |
| "gastric staple" | 0 |
| RYGB | 31 |
| Gastrectomy | 154 |
| "mini bypass" | 0 |
| "obesity surgery" | 10 |
| Total | 474 |
| Total after de-duplication | 283 |

| | |
|----------------------|-----|
| Sifted for relevance | 268 |
|----------------------|-----|

National Institute for Health and Care Excellence (NICE): Guidelines

<https://www.nice.org.uk/>

Searched: 17.11.21

NICE Guidance; Conditions and diseases; Diabetes and other endocrinal, nutritional and metabolic conditions; Obesity
2019-2021

Guidance 0
Quality Standards 0
NICE Pathways 6

Total 6

International Guideline Library (GIN) (Internet): up to 17.11.2021

<http://www.g-i-n.net>

Searched 17.11.21

| Search terms | Results: 2019-2021 |
|----------------|--------------------|
| obesity | 4 |
| weight | 4 |
| overweight | 0 |
| body fat | 0 |
| adiposity | 1 |
| Body mass | 0 |
| BMI | 0 |
| Waist | 0 |
| Obese | 4 |
| Bariatric | 1 |
| roux-en-y | 0 |
| Gastric bypass | 0 |
| Gastric band | 0 |
| Gastric sleeve | 0 |
| Gastric staple | 0 |

| | |
|-----------------------------------|-----------|
| Gastric resection | 0 |
| Gastric reduction | 0 |
| Gastrectomy | 0 |
| Mini bypass | 0 |
| Total retrieved | 14 |
| Total (without duplicates) | 8 |

ECRI Institute Guidelines Trust (Internet): up to 17 November 2021

<https://guidelines.ecri.org/>

Searched: 17.11.21

Obesity OR Overweight OR BMI OR Body mass index OR Bariatric surgery OR Roux-en-y OR Gastric bypass OR Gastric band OR Gastric sleeve OR Gastric staple OR Gastric stapling OR Gastric resection OR Gastric reduction OR Gastrectomy OR Mini bypass OR LAGB
2019-2021

11 relevant records retrieved

Trip Database: up to 17 November 2021

<https://www.tripdatabase.com/>

Searched: 17.11.21

obesity OR overweight OR BMI OR "body mass index" OR "bariatric surgery" OR Roux-en-y OR "gastric bypass" OR "gastric band" OR "gastric bands" OR "gastric sleeve" OR "gastric sleeves" OR "gastric staple" OR "gastric staples" OR "gastric resection" OR "gastric resections" OR "gastric reduction" OR "gastric reductions" OR "gastrectomy" OR "mini bypass" OR LAGB,
2019, 2021, in the Title

Guidelines: 22 records retrieved

Canadian Agency for Drugs and Technologies in Health (CADTH): up to 17 November 2021

<https://www.cadth.ca/>

Searched: 17.11.21

Obesity
Overweight
BMI
Body mass index
Bariatric surgery
Roux-en-y
Gastric bypass
Gastric band
Gastric sleeve
Gastric staple
Gastric stapling
Gastric resection

Gastric reduction

Gastrectomy

Mini bypass

LAGB

Contains all words; Health Technology Review; 2019-2021

2 records retrieved