

NOVA University of Newcastle Research Online

nova.newcastle.edu.au

Chai, Li Kheng; Collins, Clare; May, Chris; Brain, Katherine; Wong See, Denise & Burrows, Tracy. "Effectiveness of family-based weight management interventions for children with overweight and obesity: an umbrella review" Published in the *JBI Database of Systematic Reviews and Implementation Reports*, Vol. 17, Issue 7, p. 1341-1427, (2019).

Available from: http://dx.doi.org/10.11124/JBISRIR-2017-003695

This is the peer reviewed version of above article, which has been published in final form at <u>http://dx.doi.org/10.11124/JBISRIR-2017-003695</u>.

Accessed from: http://hdl.handle.net/1959.13/1405827

Review title

The effectiveness of weight management interventions for families of children with overweight or obesity: an Umbrella Review

Reviewers

Li Kheng Chai ¹⁻³

Clare Collins 1-4

Chris May 1,5

Katherine Brain 1-3

Denise Wong See ⁶

Tracy Burrows 1-3

1. School of Health Sciences, Faculty of Health and Medicine, The University of Newcastle, Callaghan New South Wales, 2308

2. Priority Research Centre in Physical Activity and Nutrition, The University of Newcastle, Callaghan, New South Wales, 2308

3. Hunter Medical Research Institute, New Lambton Heights, New South Wales

4. University of Newcastle Centre for Evidence Based Health Care Informing Research (CEBHIR): a Joanna Briggs Institute Centre of Excellence

5. Family Action Centre, The University of Newcastle, New South Wales

6. Department of Nutrition and Dietetics, John Hunter Children's Hospital, Newcastle, New South Wales

Corresponding author:

Tracy Burrows

Tracy.Burrows@newcastle.edu.au

The effectiveness of behavioral weight management interventions for families of children with overweight or obesity: an Umbrella Review

Abstract

Objectives

To synthesize the effectiveness and strategies used in family-based behavioral childhood obesity interventions in improving child weight-related outcomes.

Introduction

Family-based interventions are common practice in the treatment of childhood obesity. Research suggests that direct parental involvement can improve child weight-related outcomes. However, challenges remain in assessing the effectiveness of family-based interventions on child weight and weight-related behavior due to the lack of quality programs and diversity of treatment strategies.

Inclusion criteria

Systematic reviews and/or meta-analyses of family-based behavioral interventions in children aged ≤18 who were classified as being overweight and/or obese, and reported child weight related outcomes, such as Body Mass Index (BMI), body fat percentage, and waist circumferences were included.

Methods

Seven databases were searched from 1990 to May 2016 to identify English language publications. Reference lists of included reviews and relevant registers were also searched for additional reviews. All included systematic reviews were critically appraised by two reviewers independently. Data extraction including characteristics of included systematic reviews and weight-related outcomes reported. Data synthesis involved categorizing interventions into seven categories and presented findings in narrative and tabular format. Quality of evidence was assessed using the Grading of Recommendations Assessment, Development, and Evaluation (GRADE) approach.

Results

The umbrella review comprised 14 systematic reviews (low to moderate methodological quality), published between 2004 and 2015, including 47 independent trials ranging from one month to seven years follow up conducted in over 16 countries. The majority of reviews (93%) reported weight outcomes of children aged six to 13 years. All reviews except one indicated that family-based interventions were successful in improving child weight and/or weight-related behavior. Five reviews highlighted that

parent-only interventions have similar (n=4) or greater (n=1) effectiveness compared to parent-child interventions. Effective interventions employed parent-targeted strategies, including nutrition and physical activity education sessions, positive parenting skills, role modelling, and child behavior management to encourage positive healthy eating/exercise behaviors in children and/or whole family.

Conclusions

Family-based interventions targeting parents, alone or with their child, are effective for child weight management. Due to the lack of high quality evidence, especially in the emerging parent-only interventions, further research are warranted. Health practitioners can work with parents as the agents of change and focus on fostering positive parenting skills, such as monitoring, reinforcement, role modelling, and providing a nurturing environment, in order to support health behaviors in their children. Future research needs to explore whether parent-only interventions are more cost-effective compared to parent-child interventions, and to include larger populations, longer intervention duration and follow-up.

Keywords

Children; parent; intervention; obesity; umbrella review

Introduction

The rising prevalence of childhood obesity has created a worldwide public health crisis.¹ According to the World Health Organization (WHO) approximately 41 million (6%) young children under the age of five years across the world were overweight or obese in 2014.¹⁻³ While global prevalence data available for obesity in older children are currently being verified by WHO,² the International Obesity Task Force (IOTF) (2000) estimated that approximately 155 million children aged five to 17 years were overweight (10%) or obese (3%).^{4, 5} The Australian Health Survey (2011-12) showed that one in four Australian children were overweight (18%) or obese (7%) placing these children at increased risk of chronic disease from a young age.⁶ The Australia Burden of Disease Study (2011) indicates that high Body Mass Index (BMI), related to overweight and obesity, was the second highest contributor to disease burden.⁷ In Australia, overweight and obesity accounted for 5.5% of the total disease burden in 2011, including 49% of endocrine disease prevention, as obesity tracks from childhood to adulthood.

Extensive research has been conducted in child obesity. This has included several systematic reviews (SRs)⁸⁻¹² in both obesity prevention and treatment in children and adolescents, with evidence suggesting that parental involvement (mainly for primary school aged children) has increased intervention effectiveness in relation to improved weight outcomes and lifestyle behaviors. Systematic reviews of childhood obesity show that family-focused behavioral lifestyle interventions, often with direct parental involvement, can lead to positive outcomes in weight, BMI and other measures of body fat

composition of the children.^{9, 13-19} Behavioral interventions were classified as those that aim to change parents' and/or children's weight related thinking patterns and actions – including dietary intake, physical activity and sedentary behaviors – which go on to determine a family's food and physical environment.¹⁹

Parents' attitudes, beliefs and behaviors have an effect on their child's risk of being overweight.²⁰ Parental characteristics such as increased BMI, high alcohol intake, regular smoking, low socioeconomic status, and low education level have all been linked with greater possibility of their children being overweight.²⁰ Moreover, parents are the key mediator of the obesogenic environment within the family home; particularly for young children who consume most meals at home. Parents usually control decision making about the types of food that are available in the home and how food is prepared for family meals. Parental decisions can have an impact on the development of child food preferences and eating habits. Family meal times, if they occur, provide a potential opportunity for parents to model healthy food choices and food-related behaviors, while promoting a positive atmosphere around healthy eating for better diet quality. For these reasons, parents are often targeted in intervention for child weight management.

Despite increasing research into obesity, the prevalence of overweight and obesity has risen globally, in both developed and developing countries, over the last decade.¹ It remains a challenge for healthcare professionals to work effectively with the complex dynamics of family systems to improve child health outcomes; noting that this can require the active engagement of both parents to achieve effective behavior change.²¹⁻²³ There is an abundance of literature on childhood obesity interventions with parental involvement.²⁴⁻²⁶ However, the effectiveness of interventions to reduce a child's weight and/or change their weight-related lifestyle behaviors has been inconsistent, due in part to the lack of high quality, effective programs^{27, 28} which have included an array of diverse strategies.²⁹ A Cochrane review²⁸ acknowledged that the heterogeneity of current literature in the area of childhood obesity treatment makes it difficult to conclude that one intervention component is more effective than the other. As parental influences are closely associated with child's weight or weight-related behavior, especially in young children, the parental role in child obesity treatment is likely to be an essential element for effective interventions aiming to achieve behavior changes in their children.^{9, 18, 24}

Given a number of SRs have already been completed in the area of parental involvement in childhood obesity intervention, a comprehensive review of these SRs is sensible to map and analyze the available evidence. This umbrella review summarized current strategies that are effective in supporting parents with an overweight child to better manage their child's weight and/or weight-related behavior change. To the authors' knowledge, this is the first systematic review of SRs on obesity interventions involving parents with overweight children.

Review questions

What is the effectiveness of family-based behavioral or lifestyle weight management interventions for overweight children? What are the strategies or characteristics of effective interventions in combating child obesity?

Inclusion criteria

Types of participants

Participants of interest were children aged 18 years and under who were classified as overweight or obese, based on WHO Child Growth Standards, Centers for Disease Control and Prevention (CDC) Growth Charts, or International Obesity Task Force (IOTF).³¹⁻³³ Systematic reviews were excluded where study participants included children of all weight status, and/or results were not reported separately for overweight children.

Types of intervention(s)

The umbrella review included SRs which had a focus on behavioral and/or lifestyle interventions for child weight management. Interventions of interest are those that aim for weight loss as a primary outcome through changes to behavioral or lifestyle habits, including, but not limited to, dietary intake, physical activity, sedentary behavior, mealtime patterns and sleep. Interventions were included if they were family-based, which was defined as the direct involvement (i.e. attendance or participation in intervention sessions) of first- or second-degree relatives or caregivers cohabiting under one roof in interventions adapted from McLean et al.³⁴ The interventions must have included a comparator group, such as a control group not receiving an intervention (usual care), or a control group receiving an alternative intervention. There were no limitations regarding frequency, duration, intensity, and setting of interventions.

Types of outcomes

Published systematic reviews that reported a synthesis of child weight outcomes were considered for inclusion in this review. Primary outcomes of interest include change in body weight or BMI of the index child, measured from baseline to intervention-end and/or post-intervention follow-up. Where available, "behavior change" such as dietary intake or physical activity were included as secondary outcomes of interest.

Types of publications

Systematic reviews and meta-analyses of quantitative studies (randomized controlled trials (RCTs), quasi-experimental, and pre-post design) were included in the umbrella review. Mixed-method studies (i.e. both quantitative and qualitative) were included if the quantitative component could be extracted clearly. Systematic reviews of solely qualitative studies or studies that did not include an active intervention (e.g. cohort study, case study and cross-sectional study) were excluded as these studies were unlikely to report quantitative results; which were the outcomes of interest. An eligible SR must

have a protocol describing the review question/s, search strategy, and inclusion criteria, which are often referred to as 'PICO' (Participants, Interventions, Comparisons, and Outcomes).³⁵ Therefore, narrative literature reviews were excluded. For SRs that did not explicitly limit inclusion criteria to intervention study designs, only results from relevant intervention trials were extracted for inclusion in the umbrella review. If results were not reported or not separable between intervention and non-intervention studies, the SR was excluded.

Methods

The umbrella review was conducted according to the protocol which was developed based on the Methodology for JBI umbrella reviews³⁶ and published in September 2016 (doi: 10.11124/JBISRIR-2016-003082).³⁷

Search strategy

Database searches were completed in May 2016 by an experienced academic medical librarian. Seven databases were searched, including MEDLINE, EMBASE, CINAHL, PsycInfo, Scopus, Database of Abstracts of Reviews of Effects, and the Cochrane Database of Systematic Reviews, using keywords and index terms (Appendix I) identified by several experienced authors (LKC, TB, CC). Searches were limited to English language, and publications between 1990 and May 2016. As there were very few SRs published prior to 1990,³⁶ the search period was deemed appropriate to capture existing SRs on family-based childhood obesity treatment given SRs only began to emerge from the year 2000.¹⁶ Reference lists of included SRs and additional databases including PROSPERO and JBISRIR were searched to identify any existing SRs on the same topic. The authors believe that it is unlikely that a comprehensive SR in this area of research will have been undertaken and not be published. Therefore, the umbrella review did not search for unpublished/grey literature consistent with the previously published SR protocol,³⁷ as opposed to the JBI Umbrella Review methodology chapter.³⁶. All references were managed using EndNote X8 (Clarivate Analytics, Philadephia, PA, USA).

Study screening and selection

Two reviewers (LKC, and one of either TB, CM, KB, DWS, CC) independently reviewed the titles and/or abstracts of all records retrieved from the search. All potentially relevant full texts were retrieved and assessed independently by two reviewers (LKC, and one of either TB, CM, CC). Any discrepancies were resolved through consensus or a third reviewer (TB, CC).

Assessment of methodological quality

All included SRs were critically appraised by two reviewers (LKC, TB) independently using the standard JBI Critical Appraisal Instrument for Systematic Reviews and Research Syntheses.³⁶ Conflicts were

resolved through discussions to reach consensus. All eligible SRs (based on PICO inclusion criteria) were included regardless of methodological quality in order to summarize the current literature and quality of existing studies within SRs to date.

Data collection

The JBI Data Extraction Form for Review for Systematic Reviews and Research Syntheses was used for extracting information including characteristics of included systematic reviews and weight-related outcomes.³⁶ Relevant information on characteristics of included SRs was extracted and presented in line with the study protocol which has been published previously.³⁷ As per the protocol, primary weight outcomes and weight-related anthropometric indicators were extracted. In addition, changes in child/parental weight outcomes or weight-related behaviors such as dietary intake, physical activity, sedentary behavior, were also extracted when they were reported as these were deemed important secondary outcomes in the context of family-based interventions with parental involvement. When results reported within SRs were not clear (e.g. values reported in narrative synthesis were different from results tables), the original primary studies were referred to extract the correct data in order to enhance the accuracy of umbrella review synthesis. Adverse consequences that arose as a result of interventions were also documented if reported in SRs. In cases where SRs included more detailed outcomes, such as population groups (e.g. children, adults), intervention contexts (e.g. family-, school-, clinical-based), and intervention components (e.g. behavioral, pharmacological, surgery), only that subset of relevant studies (e.g. children; family-based; behavioral) were extracted for synthesis; provided that the results of the subset of studies were reported separately in the SRs. In cases where an original research study was included in multiple SRs, the number of overlapping studies included in SRs were described in the report – full details of these are presented in Appendix II. For primary studies that were included in multiple reviews, results related to the primary study were cross-checked across multiple reviews for accuracy (when same outcomes were reported) and consolidated for reporting in the current umbrella review (when different outcomes were reported) to avoid duplicates of results.

Data summary

The effectiveness of interventions were extracted as results of meta-analyses conducted within the included SRs, or as reported in the results of included SRs. Quantitative findings were categorized by authors into seven intervention categories and presented in tables describing effect estimates within groups, and between groups, at the end of intervention and at the longest follow up time.

The seven intervention categories were:

- 1. Parent-child interventions vs. Waitlist/no intervention control
- 2. Parent-child interventions vs. Usual care
- 3. Parent-only interventions vs. Waitlist/no intervention control

- 4. Parent-only interventions vs. Usual care
- 5. Parent-only interventions vs. Parent-child interventions
- 6. Parent-only interventions vs. Child-only interventions
- 7. Parent-child interventions vs. Child-only interventions

The quality of evidence for each intervention category against weight-related outcomes was assessed using the Grading of Recommendations Assessment, Development, and Evaluation (GRADE) approach.³⁸ The GRADE framework includes evaluation of the following five criteria: (i) quality of primary studies (e.g. risk of bias and methodological limitations); (ii) inconsistency (e.g. direction of intervention effects, magnitude of statistical heterogeneity measured by I²; low (I² <40%), moderate (I² 40-60%), high (I² >60%); (iii) indirectness (e.g. direct comparisons with populations, interventions, and outcomes relevant to context); (iv) imprecision (e.g. magnitude of the number of included studies: large: >10 studies, moderate: 5-10 studies, small: <5 studies; and median sample size: high >300 participants, intermediate 100-300 participants, low <100 participants); and (v) publication bias.^{38, 39}

The strengths of overall intervention effectiveness are presented in a table using a "stop-light" indicator, where green indicates an effective or beneficial intervention; amber indicates no intervention effect or no difference when compared to the comparator, or unclear effect due to insufficient information; and red indicates a detrimental or less-effective intervention when compared to the comparator.

Results

Study inclusion

The process of study selection is presented as an adapted PRISMA (Preferred Reporting Items for Systematic Reviews and Meta-Analyses) flow diagram (Figure 1). The database searches identified 15755 records; 697 potentially relevant full texts were retrieved and assessed after excluding 15058 records following the examination of title and abstract against inclusion criteria. Of the 697 full texts, 14 SRs^{9-12, 15, 16, 18, 40-46} met the inclusion criteria and were included. The majority of the excluded articles were primary studies and/or SRs with irrelevant study designs, such as cohort study, cross-sectional study, or intervention trials without family involvement. A list of excluded studies with reasons is summarized in Appendix III.

<insert Figure 1 here>

Methodological quality

Of the 11 quality appraisal criteria listed in the JBI Critical Appraisal Instrument for Systematic Reviews and Research Syntheses, seven criteria (64%) were met by all 14 included SRs (Table 1). The

remaining four criteria (item 5, 6, 7, 9) were not met or rated as unclear due to the lack of reporting in SRs. Six SRs^{16, 40-43, 46} did not provide information on whether risks of bias were assessed by more than one reviewer independently, whereas one SR¹² was conducted by only one author with no second reviewer. Four SRs^{12, 42, 44, 46} did not mention about risk of bias assessment tools used nor the results of the quality appraisal. One SR¹⁵ mentioned that included studies had methodological weaknesses but did not specify the use of an appraisal instrument for formal quality assessment. Three SRs^{11, 15, 43} did not provide information about the data extraction tool used or specify the pre-determined study characteristics to be extracted. Three SRs^{16, 40, 42} did not mention whether two or more independent reviewers performed extraction or additional examinations. Only two SRs^{9, 16} reported assessment for the likelihood of publication bias against weight outcomes, which found a low probability of publication bias as indicated by fail-safe N exceeded Rosenthal's recommendation (5k+10; with k=n of included studies).¹⁶

<insert Table 1 here>

In general, trials included in the SRs were rated as being of low quality with a large proportion rated as unclear or at high risk of bias on individual risk of bias criteria due to not, or under-reporting within primary intervention trials. The high risk of bias was for incomplete outcome data due to higher dropout in parent-only interventions, failure to conduct intent-to-treat analysis, while most studies reported limited information about allocation concealment and randomization procedure. It was uncommon for trials to report power calculations. In a SR of eight trials, only three trials reported sample size calculations and of these trials, two did not meet target sample size.¹⁸ This limited the power and sensitivity to detect significant differences between groups resulted from the interventions. GRADE assessment of the outcomes pooled in this umbrella review have led to trials being downgraded for risk of bias, and imprecision owing to the small number of trials and small sample sizes (n=8 to 80). Therefore, the overall interpretation of the data was synthesized more cautiously. Further details on appraisal instrument used and methodological quality are presented in Table 2.

<insert Table 2 here>

Characteristics of included studies

The 14 included SRs^{9-12, 15, 16, 18, 40-46} were published between 2004 and 2015 with four undertaking meta-analyses.^{9, 16, 41, 46} The majority (n=13 SRs) had searched at least three databases, with the databases most commonly searched being Medline, CINAHL, PsycINFO, and PubMed, and with publications retrieved from 1967 to May 2015. While all SRs included intervention studies, eight SRs^{9, 10, 12, 15, 18, 41, 44, 45} specifically included RCTs only, with two SRs^{15, 18} including only RCTs with at least six months follow up. Two SRs also incorporated specific inclusion criteria for countries including UK¹¹ and USA⁴⁰ or ethnicity such as African-American girls.⁴⁰ While the study populations were predominantly primary school age children, the most commonly included child age range was 6-13

years (n=13 SRs),^{9-12, 15, 16, 40-46} with some also reporting on children aged less than six years (n=9 SRs)^{9-11, 16, 42-46} or above 13 years (n=10 SRs).^{11, 12, 16, 18, 40-45} One SR¹⁸ specifically described results of children aged 8-11 years only. The included SRs^{9-12, 15, 16, 18, 40-46} have included 47 independent trials that were relevant for the umbrella review. Of the 47 trials, which were conducted in over 16 countries and published between 1975 and 2015, 22 trials (47%) were included in two or more SRs included in the umbrella review. Two trials were included in seven SRs; one trial was included in five SRs; two trials were included in four SRs; three trials were included in three SRs; and 14 trials were included in two SRs. All four trials included in the meta-analysis conducted by Jull et al.⁴¹ were also included in the SR by Loveman et al.⁹ which included 20 trials (see Appendix II). Intervention durations ranged from one month to two years, with longest post-intervention follow up time points ranging between three months and seven years. The most common primary outcome measures reported were BMI z-scores (zBMI) (n=13 SRs),^{9-12, 16, 18, 40-46} BMI (n=8 SRs),^{9, 11, 12, 15, 18, 40, 45, 46} percent overweight (n=7 SRs),^{12, 16, 18, 42-44}, ⁴⁶ BMI percentile (n=6 SRs),^{10, 16, 18, 42-44} and body weight (n=6 SRs).^{9, 12, 15, 40, 45, 46} Several SRs also reported on secondary outcomes related to behavioral changes such as diet (n=7 SRs),9, 12, 16, 40, 42-44 physical activity (n=5 SRs),^{9, 12, 16, 40, 44} sedentary behavior (n=2 SRs),^{16, 44} and/or parental outcomes (n=4 SRs).9, 12, 43, 44

The majority of SRs evaluated family-based studies which targeted parents and children in the interventions and compared with a waitlist or no intervention control group^{10-12, 16, 18, 40, 42-45} and/or usual care.^{10, 12, 42, 44} Six SRs evaluated parent-only interventions in comparison with a waitlist or no intervention control group^{9, 10, 18, 43, 45} and/or usual care.⁹ Seven SRs^{9, 12, 16, 18, 41, 43, 44} examined intervention studies which compared parent-only conditions with parent-child conditions. Six SRs assessed child-only interventions and compared them with parent-only intervention arms^{15, 18, 43, 44} and/or parent-child intervention arms.^{15, 18, 40, 43} Two SRs^{12, 42} provided a summary of the effectiveness of parent-child interventions based on different settings: family-, school-, and clinic-based interventions, in the treatment of childhood obesity. Overall, interventions have aimed to change behavior of both the index child and their parents and/or family members through targeted intervention components including dietary change, physical activity and behavior modification or cognitive behavioral therapy;^{9,} ^{11, 18} and through intervention techniques, such as nutrition and physical activity education, and goal setting.^{11, 44} Dietary interventions focused on increasing healthy food consumption through the use of traffic light dietary approaches (e.g. The Stoplight Diet) or similar strategies.^{16, 41, 44} Physical activity interventions aimed to increase physical activity and reduce sedentary behaviors, either through specified targets, or through individualized goal setting.^{41, 44} Detailed characteristics of included SRs were summarized in Appendix IV.

Findings of the review

All reviews, except one,⁴⁰ found that family-based lifestyle interventions were effective, as indicated by a decrease in weight or weight-related outcomes (e.g. zBMI, percentage overweight) from baseline.

The one review⁴⁰ which targeted African-American girls only was unable to draw clear conclusions due to most included studies being pilot trials with small sample sizes (n participants<50) and short duration (12 weeks or less). Overall, no studies reported adverse events. Detailed findings and interventions included in each SRs are presented in Table 2. Key findings for each pre-defined intervention of interest are described below. Detailed results and GRADE quality of evidence (QOE) are presented in the Summary of Findings (GRADE tables) 1 to 7 for each intervention of interest respectively.

Parent-child interventions vs Waitlist/no intervention control

Detailed results and quality of evidence were presented in the Summary of Findings 1. Eight SRs^{11, 12, 18, 40, 42-45} (eight trials; 581 children) and one meta-analysis¹⁶ (three trials; 274 children) provided evidence supporting the effectiveness of parent-child interventions in reducing zBMI compared to waitlist controls after interventions ranged between three and 12 months (moderate QOE). Results from systematic reviews^{11, 12, 18, 40, 42-45} found greater zBMI reduction in the active intervention groups for all but one trial and was consistent with the findings of the meta-analysis¹⁶ of three trials. At post-intervention follow-up (ten months to two years; four trials; 288 children; low QOE) the zBMI reduction was maintained.^{10, 11, 18, 42-44} Therefore, the strength of overall intervention effectiveness was awarded the color 'green'; indicating beneficial/positive intervention effects (Table 3). The overall QOE were rated as low to moderate quality.

BMI percentile was reported in a SR⁴⁵ (one trial; 105 children; moderate QOE) and a meta-analysis¹⁶ (four trials; 230 children; moderate QOE). There was a greater reduction of BMI percentile by -0.5% in intervention groups (three trials), while one trial found no significant difference between groups.^{16, 45} At post-intervention follow-up (three to six months; five trials; 328 children; low QOE) the BMI percentile reduction was maintained.^{10, 16} The outcome overall was beneficial and consistent in SR and meta-analysis, hence, resulting in award of the color 'green'. The overall QOE were rated as low to moderate quality.

Percentage overweight was reported in a SR⁴⁵ (one trial; 40 children; moderate QOE) and a metaanalysis¹⁶ (three trials; 167 children; moderate QOE). All four trials observed a greater reduction of percentage overweight by -0.3% in intervention groups.^{16, 45} The strength of overall intervention effectiveness was awarded the color 'green'. The overall QOE were rated as moderate quality. Waist circumference was reported in four SRs^{11, 40, 42, 44} (three trials; 324 children; moderate QOE), Two trials found intervention group had lower waist circumference at 6 months, and 12 months, respectively, while another trial found no difference between groups at 1 month.^{11, 40, 42, 44} At post-intervention followup (12 months; one trial; 116 children; low QOE) the waist circumference remained significantly lower.^{11, 42} The strength of overall intervention effectiveness was awarded the color 'green'. The overall QOE were rated as low to moderate quality.

There were no meta-analyses that evaluated dietary changes or physical activity levels as a result of

an intervention. Three SRs^{40, 42, 44} (four trials; 210 children; low QOE) found interventions improve diet quality, however meta-analysis were not conducted due to the heterogeneity of the study methods as well as the dietary outcome measures used in reporting results (e.g. energy intake, nutrient intake, food groups servings). Two SRs^{40, 44} (four trials; 253 children; low QOE) found physical activity levels and screen time were not different between groups (three trials) while one trial found the intervention increased physical activity levels. The overall QOE were rated as low quality.

<insert Summary of Findings 1 here>

Parent-child interventions vs. Usual care

Additionally, when compared to a usual care control group (six trials from four SRs; 308 children (two trials did not report sample size); low QOE), which were usually mailed information or a workbook or minimal sessions, the parent-child interventions achieved a greater reduction in child's BMI, BMI percentile, percentage overweight, and/or weight.^{10, 12, 42, 44} However, the overall QOE was rated as being of low quality, as each outcome was informed by only one trial with a small sample size (n=16 to 192). Mixed effects on zBMI were found between intervention and usual care control groups where one trial indicated intervention was effective, while another trial found no difference between the groups.^{42, 44} Detailed results and quality of evidence were presented in the Summary of Findings 2.

<insert Summary of Findings 2 here>

Parent-only interventions vs Waitlist/no intervention control

Detailed results and quality of evidence were presented in Summary of Findings 3. Four SRs (seven trials; 393 children) and one meta-analysis⁹ (two trials; 153 children) provided evidence supporting the effectiveness of parent-only interventions in improving child weight outcomes. Overall, when compared to a waitlist control group, parent-only interventions reduced zBMI (three trials; 224 children; moderate QOE),^{9, 18, 43} BMI (three trials; 55 children; low QOE)^{9, 43} and BMI percentile (one trial; 98 children; low QOE),^{9, 10} while mixed results were reported for parental BMI (two trials; 169 parents; low QOE).⁹ Apart from zBMI (moderate QOE), evidence on these listed outcomes were rated as low quality due to small sample sizes, the small number of studies and/or inconsistent results.

Meta-analysis⁹ (two trials; 153 children; moderate QOE) which reported outcome of parent-only interventions presented results for zBMI only, and indicated that parent-only interventions had significantly lower zBMI by -0.12 following interventions that ranged between three and four months, and the changes remained significant at six to 12 months post intervention. Results from two SRs^{18, 43} (one trial; 71 children; low QOE) supported the meta-analysis of two trials where zBMI reduced by -0.13 in intervention group after four months intervention, and remained lower by -0.14 than control groups at 10 months. The outcome overall is beneficial and consistent in SRs and meta-analysis, hence,

resulting in award of the color 'green'. The overall QOE were rated as low to moderate quality.

<insert Summary of Findings 3 here>

Parent-only interventions vs. Usual care

Detailed results and quality of evidence were presented in Summary of Findings 4. There was a smaller number of SRs that compared parent-only interventions with a usual care control group (seven trials from one SR; 925 children; moderate QOE) which were usually mailed information or a workbook or minimal sessions. Only one trial (170 children) reported zBMI and found no significant difference between groups after a three to six-month intervention (low QOE).⁹ Five trials from one SR (648 children; moderate QOE) assessed BMI percentile while only one trial (107 children; low QOE) assessed BMI, and all reported a greater reduction in intervention groups.⁹ Overall, no trial has reported negative effects (ineffective) on weight-related outcomes for parent-only interventions. At post-intervention follow up (six to 24 months), parent-only interventions had greater reduction in BMI (two trials; 614 children; moderate QOE) and BMI percentile (one trial; 60 children; moderate QOE); and no differences in zBMI (one trial; 165 children; low QOE) compared to usual care control groups.⁹, ^{18, 43} The overall QOE were rated as low to moderate quality.

<insert Summary of Findings 4 here>

Parent-only vs Parent-child interventions

Detailed results and quality of evidence were presented in the Summary of Findings 5. Three SRs^{9, 12, 18} (three trials; 164 children) and three meta-analyses^{9, 16, 41} (five trials; 402 children) reported zBMI at the end of the interventions (10 weeks to six months). Results from meta-analyses^{9, 16, 41} showed no significant difference in zBMI (moderate QOE) between the two interventions. Systematic reviews^{9, 12, 18} also reported consistent zBMI reduction in both groups (low QOE). Given there was no significant difference between parent-only interventions and parent-child interventions, the color 'amber' was awarded suggesting that both interventions are equally beneficial. The overall QOE were rated as low to moderate quality.

BMI percentile was reported in a SR,¹⁸ parental BMI was reported in a SR,⁹ and percentage of children who were overweight was reported in four SRs.^{9, 18, 43, 44} Overall, there was no significant difference in child BMI percentile (one trial from one SR; 80 children; low QOE)¹⁸ and parental BMI (three trials from one SR; 207 parents; low QOE)⁹ between parent-only interventions and parent-child interventions. Mixed findings were reported for the percentage of children who were overweight (two trials from four SRs; 88 children; low QOE);^{9, 18, 43, 44} with one trial reporting a greater reduction in parent-only intervention groups while the other trial found no difference between groups (percentage of children who were overweight reduced in both groups). No trial reported that parent-only interventions were less

effective in comparison to parent-child interventions on the above outcomes.

<insert Summary of Findings 5 here>

Child-only vs parent-only or parent-child interventions

For the purpose of comparing interventions with parental involvement to those without parental involvement, this section presented results of the two remaining intervention categories specified in the data summary section: 'Parent-only interventions vs. Child-only interventions', and 'Parent-child interventions vs. Child-only interventions'. Detailed results and quality of evidence were presented in the Summary of Findings 6 and Summary of Findings 7. There was limited evidence that compared parent-child and child-only interventions (10 trials from five SRs; 546 children; moderate to low QOE),^{15, 18, 40, 43, 45} and even fewer studies that compared parent-only and child-only interventions (three trials from four SRs; 181 children; low QOE).^{15, 18, 43, 44} Overall, no trial reported that child-only interventions were more effective than interventions with parental involvements. Parent-only and/or parent-child interventions have demonstrated positive improvement on weight (three trials from one SR; 91 children; low QOE),¹⁵ zBMI (two trials from one SR; 236 children; low QOE),¹⁸ BMI (one trial from one SR; 36 children; moderate QOE),⁴⁰ percentage overweight (six trials from five SRs; 288 children; moderate QOE),^{15, 18, 43-45} parental weight (one trial from one SR; 76 parents; low QOE)¹⁵ during follow up at one to seven year/s. The overall QOE were rated as low quality.

<insert Summary of Findings 6 here>

<insert Summary of Findings 7 here>

Summary of Evidence

The strength of overall intervention effectiveness immediately post intervention is presented in the Summary of Evidence (Table 3) using a traffic-light visual indicator. Parent-child and parent-only interventions were awarded the color 'green' on most outcomes indicating interventions were effective or beneficial in improving weight-related outcomes. No intervention receives a 'red' indicator, meaning no intervention had a detrimental or less-effective impact when compared to the comparator group.

<insert Table 3 here>

In summary, family-based behavioral lifestyle interventions targeting parents, with or without child involvement can be effective in achieving successful weight change outcomes in children aged two to 18 years. When compared to a waitlist control group, parent-child interventions^{10, 12, 15, 16, 18, 40-44} (one month to two years follow up) and parent-only interventions^{9, 10, 12, 15} (10 weeks to 10 months follow up) were both effective in improving weight-related outcomes, such as a reduction in zBMI, BMI and BMI

percentile. However, these interventions did not result in an impact on parent outcomes, including parents' BMI, waist circumference, and/or weight.^{9, 41} A smaller number of studies compared parentchild interventions^{12, 18, 41} or parent-only interventions⁹ to a usual care control group (mailed information or a workbook or minimal sessions) and the outcomes indicated that multi-component and more intensive interventions, defined as a high level of parental involvement and multiple treatment components such as intense dietary monitoring, physical activity, and behavioral techniques, with a focus on nutrition, physical activity and behavior modification had greater overall effectiveness.^{9, 12, 18, 41} Both parent-child interventions and parent-only interventions showed greater effectiveness when compared to child-only interventions, despite the limited number of studies reporting such comparisons.^{10, 11, 15, 16, 41} These overall findings are supported by evidence showing multi-component interventions with higher intensity or greater parental involvement were usually more effective in improving child weight outcomes.^{16, 46}

While interventions for children often require parents to be involved, SRs and meta-analyses suggest that interventions with parents only are equally effective when compared to interventions with parents and children.^{9, 12, 18, 41, 44} Five SRs indicated that parent-only interventions had similar (four SRs);^{9, 12, 18, 41} or greater (one SR)⁴⁴ effectiveness compared to parent-child interventions. However, all 14 SRs have included interventions with parental involvement, but did not specify clearly whether mothers, fathers or both parents participated in the interventions. This has prevented the umbrella review from further synthesizing the results by sub-categories to compare intervention effectiveness by different parental roles (e.g. mother-child vs father-child interventions). There was an insufficient number of SRs reporting behavioral outcomes (secondary outcomes) such as dietary intake and physical activity to draw any conclusions regarding such parameters. Hence, intervention effectiveness in the present review mainly refers to improvement in weight, body composition, and weight-related anthropometric indicators.

Discussion

The current umbrella review has systematically identified, synthesized, and graded a wide range of evidence on the effectiveness of targeting parents within individual-level treatment interventions for relative weight loss or weight maintenance in children aged 18 years and under who were overweight or obese. Results indicate that family-based behavioral interventions appear to be an effective strategy for weight management in children aged between two and 18 years, as indicated by a reduction in weight or weight-related outcomes (e.g. zBMI, percentage overweight) from baseline. The findings of the current umbrella review are similar to a previous umbrella review which assessed only RCTs with longer term intervention duration (≥6 months) in child weight management.³⁹ The SRs found that a comprehensive multi-component intervention is effective in improving child metabolic and anthropometric measures, and appears to have the best overall outcomes when compared to single

component interventions focused on physical activity, diet, education, pharmacological, or surgical approach.³⁹ The effectiveness of a multi-component intervention combining dietary advice, physical activity, and behavior modification was also frequently mentioned in the SRs included in the current umbrella review.^{12, 46} Evidence consistently supports the effectiveness of childhood obesity interventions that set goals for behavior change, such as consuming five servings of fruits and vegetables each day and replacing sugar sweetened beverages with sugar-free beverages.⁴⁴ Studies to date have recommended interventions that engage children in 60 minutes of moderate to vigorously intense physical activity on most days of the week, and limit screen time (leisure television and computer use) to no more than two hours per day.⁴⁴ These findings are consistent with the Australia's Physical Activity and Sedentary Behavior Guidelines for Children (five to 12 years).⁴⁷ The recent Australian 24-Hour Movement Guidelines for the Early Years recommend that preschoolers aged two to five years spend at least 60 minutes throughout the day in energetic play including; running, jumping, kicking, and throwing, and to limit screen time to no more than one hour per day.⁴⁷ However, within the included SRs, there was a lack of reporting on behavioral change such as dietary intake and physical activity as a result of the interventions.

Parents, as the gate keeper of the family food supply and as nutrition role models for their children, have a major influence on their children's eating habits.^{24, 30, 48, 49} It is acknowledged that parents may play different roles as children age, however, the involvement of parents in intervention is essential and this is supported by evidence showing that parent's weight and lifestyle behavior are related to that of their children.^{20, 50, 51} Family-based interventions included in the current umbrella review have directly involved one or both parents,^{12, 45} and/or included family members or siblings^{15, 16} in the treatment, and these interventions demonstrated greater effectiveness compared to control groups without parental or family involvement. Although the existing SRs suggest that including parents in weight management interventions enhances outcomes, they do not provide clear insights into which of the many possible aspects of parental influence were modified in the interventions and were key to achieving the desired weight outcomes (e.g. feeding practices, food parenting).⁴⁶ An SR of nine trials reported that no clear pattern emerged in terms of physical activity intervention effectiveness related to family member, format of the intervention delivery (parents and the index child, or child only), goal of the family member, format

Few weight management intervention trials had similar intervention characteristics and, together with the mixed outcomes assessed and reported results, it was difficult to establish whether there is any particular intervention type (parent-only vs parent-child) that is more likely to lead to a successful outcome in terms of change in child weight outcomes.⁹ Nevertheless, the current umbrella review found that no intervention had a detrimental or not effective impact on child weight-related outcomes when compared to the comparator control group. Studies suggest that if parents recognize the importance of their child's weight, they will be motivated to influence their children in terms of lifestyle behaviors related to weight control.⁴² Encouraging participating family members to change their own behaviors and

reduce their own body weight may be an effective strategy for overweight children in terms of reducing excess weight or preventing further weight gain.⁴⁰

Evidence also indicates that low parental self-confidence predicts dropout rates in family-based behavioral treatment,⁴² with one SR¹⁰ of seven trials indicating potential predictors of program success (greater reduction in child BMI) included higher parental motivation, lower baseline BMI percentile in children, higher parental attendance, younger children, and lower socioeconomic status. Future interventions could include strategies targeting parents' self-confidence to actively engage them in interventions and to motivate and encourage them to be good role models for their children by improving their lifestyle behaviors.

There was emerging evidence indicating that parent-only interventions are as effective, if not more effective, in improving child weight and/or weight-related behavior as parent-child interventions.^{9, 12, 18,} ^{41, 44} The primary modality of intervention delivered to parents was through face-to-face educational sessions.⁴⁴ Key strategies targeting parents included providing education on healthy eating and physical activity, fostering the development of parenting skills to promote positive health behaviors in children, and coping with difficult situations.^{10, 41} Interventions targeted nutrition and/or physical activity education along with parenting skills showed larger and more significant changes compared to interventions with education plus behavioral control components.¹⁶ Effectiveness has been demonstrated in child weight management interventions that target parents as the agent of change through education sessions on nutrition and/or physical activity, authoritative parenting styles (setting boundaries, provide nurturing environment), positive parenting skills (self-monitoring, reinforcement, role modelling), and child behavior management strategies to encourage positive behaviors in weight management programs for overweight children.43 Interventions targeting parents to improve selfefficacy and confidence in managing health behavior also assist in forming positive lifestyle habits within the family.^{50, 52, 53} It is therefore important to note that interventions that involve parents only are likely to be less costly than interventions that involve the whole family, especially when parents and children are in separate groups.¹¹ However, the most commonly involved populations within the included SRs were children aged between 6-13 years when parents were usually the gate keeper of the family food supply. Parents' roles usually evolve as their children grow into adolescence and begin to gain more control and independence in making decisions including food preferences, such as lunchbox meals and snack choices, when eating at home or eating out with peers. Therefore, parent-only approaches for families with adolescents may be need to be different from those with younger children. Nevertheless, there are numerous issues to consider due to the lack of high quality evidence and high attrition rates in parent-only interventions. Further investigations are warranted to explore whether parent-only interventions are more cost-effective and sustainable,^{9, 18} and to examine the barriers to participation and other complexities behind higher attrition rates in parent-only interventions through qualitative research.18

While previous research supports effective interventions that involve greater parental involvement as a whole, the majority of interventions targeting parents did not clearly specify whether mothers or fathers were involved.¹⁰ Whenever mentioned, studies commonly refer only to maternal involvement, with the paternal role generally overlooked.⁵⁴⁻⁵⁷ A recent systematic review seeking to assess father involvement in pediatric obesity prevention trials found that only 6% of parents in studies limited to one parent participation were fathers (N=123).²³ While only 2% of included studies identified a lack of paternal participation as a potential limitation, 99% included studies did not explicitly attempt to engage with fathers.²³ However, evidence shows that fathers are involved in child feeding, cooking, shopping and food choices,⁵⁸ as well as other aspects of child health and wellbeing.⁵⁶ Paternal BMI has been reported to be more strongly linked to childhood obesity than maternal BMI.⁵⁹ This suggests that the beliefs and behaviors of fathers need to be taken into account when implementing weight related lifestyle intervention within the family.⁶⁰ Future research should consider actively engaging both mothers and fathers in parent-targeted interventions for child weight management.

The current umbrella review had a number of limitations, as with any SR, including that potentially relevant studies may have been omitted as the review only included published SRs in English. The JBI manual recommends to include grey literature searches, however, this approach is often included in standard SRs. Therefore, unpublished grey literature would have been reported in the included SRs in the current umbrella review. There is the possibility that inherent bias existed in the reporting of this review where errors may have arisen in the initial appraisal and data extraction of the included SR or meta-analysis and they have been carried though in the current umbrella review.³⁶ In some of the included SRs, it was unclear whether there was more than one independent reviewer for study selection (n=7 SRs) and/or data extraction (n=4 SRs), unclear which quality appraisal or risk of bias instrument used (n=6 SRs), and unclear assessment of the presence of publication bias (n=12 SRs). There were a few occasions where results reported within SRs (narrative synthesis and results tables) were ambiguous. To address this, the original primary studies included in the SRs were referred to obtain information to enhance the accuracy of umbrella review synthesis. The umbrella review was also dependent on the reporting of the included research syntheses which may limit reporting of desirable details of interventions in the present report. For example, a limited number of SRs have reported dietary and physical activity outcomes which has impeded further synthesis of the intervention effectiveness on these behavioral outcomes of interests in the current umbrella review. Positive behavior change outcomes as a result of an intervention will provide an indication that an intervention is effective in modifying health behavior, which is likely to lead to weight loss in the longer term. Better reporting of behavior outcomes as a result of interventions would help to evaluate intervention effectiveness through preliminary impact on health behavior when weight change is usually not observed or is not significant within a short intervention duration generally between three and six months for most studies. As the majority of the included SRs did not adequately report on statistical significance (p-values) of the intervention trials, the umbrella review has not been able to synthesize a precise summary of intervention types which were significantly more effective than the other intervention types on various outcomes of interest. However, using a systematic approach, the umbrella review is able to provide recommendations after grading the quality of evidence on a range of interventions and the strength of intervention effectiveness against numerous weight-related outcomes in children aged 18 years and under who were overweight or obese.

Conclusions

Lifestyle behavior interventions targeting parents only, or parents with their child, are effective in achieving successful weight management outcomes in children aged two to 18 years. Multi-component family-based interventions combining dietary, physical activity, and behavior modification have consistently demonstrated effectiveness. Effective interventions employed parent-targeted strategies, including nutrition and physical activity education sessions, positive parenting skills, role modelling, and child behavior management.

Implications for practice

Health professionals can work with parents, as the key agents of change for their children, to encourage healthy eating and lifestyle behavior change across the family. It was not possible to recommend that one intervention component is more effective than the other. Therefore, the implications for practice includes a summary of strategies and interventions related to parental involvement within interventions. Parents can be provided with education on healthy eating and physical activity, not only to increase knowledge but to enhance self-efficacy and confidence in managing health behaviors within the home. Parent-targeted consultations can focus on fostering positive parenting skills in order to promote positive health behaviors in children and to cope with difficult situations related to health behavior change (e.g. family mealtime's challenges). Positive parenting skills, such as monitoring, reinforcement, role modelling, and provide nurturing environment, are relevant to support parents in facilitating healthy lifestyle change in family.

Implications for research

Future interventions need to examine whether engaging both parents within the parental component of interventions, especially fathers, can further enhance intervention effects. It is recommended for researchers to explicitly describe role of parents (e.g. mothers, fathers) involved in the interventions as opposed to using the term 'parents' when referring to the participants; who are often predominantly mothers. Future research should include larger and more diverse population groups, and examine the impact of interventions of longer duration and follow-up. There is a need for more comprehensive reporting of health behavior outcomes (e.g. dietary intake, physical activity levels) in order to assess which intervention components contribute to effectiveness and their relationship with change in health risk factors that are also associated with overweight and obesity.

Conflicts of interest

The authors declare no conflict of interest.

Funding

LKC is supported by the University of Newcastle International Postgraduate Research Scholarships, the Barker PhD Award Top-up Scholarship, and Emlyn and Jennie Thomas Postgraduate Medical Research Scholarship through the Hunter Medical Research Institute (HMRI). CEC is an NHMRC Senior Research Fellow and a University of Newcastle, Faculty of Health and Medicine, Gladys M Brawn Senior Research Fellow. KB is supported by Australian Postgraduate Award and HMRI Top-up Scholarship. TB is supported by a University of Newcastle, Faculty of Health and Medicine, Early Career Brawn Fellowship.

Acknowledgements

The authors would like to thank Mrs. Debbie Booth (University of Newcastle, Faculty of Health and Medicine librarian) for assisting in development of the search strategy. This study forms part of the theses work for PhD candidate Li Kheng Chai at the University of Newcastle.

References

- Ng M, Fleming T, Robinson M, et al. Global, regional, and national prevalence of overweight and obesity in children and adults during 1980–2013: a systematic analysis for the Global Burden of Disease Study 2013. *The Lancet*. 2014;**384**(9945):766-81.
- 2. World Health Organization. Report of the commission on ending childhood obesity. Geneva, Switzerland: 2016 2016 Aug 18. Report No.
- Collaborators TGO. Health Effects of Overweight and Obesity in 195 Countries over 25 Years. N Engl J Med. 2017;377(1):13-27.
- Ahmad QI, Ahmad CB, Ahmad SM. Childhood Obesity. *Indian J Endocrinol Metab*. 2010;**14**(1):19-25.
- Lobstein T, Baur L, Uauy R. Obesity in children and young people: a crisis in public health. *Obes Rev.* 2004;5(Suppl 1):4-104.
- Australian Institute of Health and Welfare. Subjects: Risk factors, diseases & death: Risk factors: Overweight and obesity 2017 [updated 2017 Jul 7; cited 2017 Oct 10]. Available from: <u>http://www.aihw.gov.au/overweight-and-obesity/</u>.
- 7. Australian Institute of Health and Welfare. Australian Burden of Disease Study: Impact and causes of illness and death in Australia 2011—summary report. Canberra: AIHW; 2016.

- Norton DE, Froelicher ES, Waters CM, Carrieri-Kohlman V. Parental influence on models of primary prevention of cardiovascular disease in children. *Eur J Cardiovasc Nurs*. 2003;2(4):311-22.
- 9. Loveman E, Al-Khudairy L, Johnson RE, et al. Parent-only interventions for childhood overweight or obesity in children aged 5 to 11 years. *Cochrane Database Syst Rev.* 2015;**12**:CD012008.
- Jang M, Chao A, Whittemore R. Evaluating Intervention Programs Targeting Parents to Manage Childhood Overweight and Obesity: A Systematic Review Using the RE-AIM Framework. J Pediatr Nurs. 2015;30(6):877-87 11p.
- 11. Upton P, Taylor C, Erol R, Upton D. Family-based childhood obesity interventions in the UK: a systematic review of published studies. *Community Practitioner*. 2014;**87**(5):25-9.
- 12. Kothandan SK. School based interventions versus family based interventions in the treatment of childhood obesity- a systematic review. *Archives of Public Health*. 2014;**72**(1):3- 1p.
- McLean N, Griffin S, Toney K, Hardeman W. Family involvement in weight control, weight maintenance and weight-loss interventions: a systematic review of randomised trials. *International Journal of Obesity & Related Metabolic Disorders: Journal of the International Association for the Study of Obesity*. 2003;27(9):987-1005.
- Janicke DM, Steele RG, Gayes LA, et al. Systematic review and meta-analysis of comprehensive behavioral family lifestyle interventions addressing pediatric obesity. *J Pediatr Psychol*. 2014;**39**(8):809-25.
- Berry D, Sheehan R, Heschel R, Knafl K, Melkus G, Grey M. Family-Based Interventions for Childhood Obesity: A Review. *J Fam Nurs*. 2004;**10**(4):429-49.
- 16. Berge JM, Everts JC. Family-based interventions targeting childhood obesity: A meta-analysis. *Childhood Obesity*. 2011;**7**(2):110-21.
- 17. Niemeier BS, Hektner JM, Enger KB. Parent participation in weight-related health interventions for children and adolescents: a systematic review and meta-analysis. *Prev Med*. 2012;**55**(1):3-13.
- Ewald H, Kirby J, Rees K, Robertson W. Parent-only interventions in the treatment of childhood obesity: a systematic review of randomized controlled trials. *Journal of Public Health*. 2014;**36**(3):476-89.
- 19. Oude Luttikhuis H, Baur L, Jansen H, et al. Interventions for treating obesity in children. *Cochrane Database Syst Rev.* 2009(1):CD001872.
- 20. Walsh B, Cullinan J. Decomposing socioeconomic inequalities in childhood obesity: Evidence from Ireland. *Econ Hum Biol.* 2015;**16**:60-72.
- Skelton JA, Buehler C, Irby MB, Grzywacz JG. Where are family theories in family-based obesity treatment?: conceptualizing the study of families in pediatric weight management. *Int J Obes* (Lond). 2012;36(7):891-900.
- Davison KK, Gicevic S, Aftosmes-Tobio A, et al. Fathers' Representation in Observational Studies on Parenting and Childhood Obesity: A Systematic Review and Content Analysis. *Am J Public Health*. 2016;**106**(11):1980.

- 23. Morgan PJ, Young MD, Lloyd AB, et al. Involvement of Fathers in Pediatric Obesity Treatment and Prevention Trials: A Systematic Review. *Pediatrics*. 2017.
- 24. Van Der Kruk JJ, Kortekaas F, Lucas C, Jager-Wittenaar H. Obesity: A systematic review on parental involvement in long-term European childhood weight control interventions with a nutritional focus. *Obes Rev.* 2013;**14**(9):745-60.
- 25. Lindsay AC, Sussner KM, Kim J, Gortmaker S. The role of parents in preventing childhood obesity. *Future Child*. 2006;**16**(1):169-86.
- 26. Gerards SM, Sleddens EF, Dagnelie PC, de Vries NK, Kremers SP. Interventions addressing general parenting to prevent or treat childhood obesity. *Int J Pediatr Obes*. 2011;**6**(2-2):e28-45.
- 27. Summerbell CD, Ashton V, Campbell KJ, Edmunds L, Kelly S, Waters E. Interventions for treating obesity in children. *Cochrane Database Syst Rev.* 2003(3):CD001872.
- 28. Oude Luttikhuis H, Baur L, Jansen H, et al. Interventions for treating obesity in children. *Cochrane Database Syst Rev.* 2009(1):CD001872.
- 29. Showell NN, Fawole O, Segal J, et al. A Systematic Review of Home-Based Childhood Obesity Prevention Studies. *Pediatrics*. 2013;**132**(1):e193-e200.
- 30. Epstein LH, Paluch RA, Roemmich JN, Beecher MD. Family-Based Obesity Treatment, Then and Now: Twenty-Five Years of Pediatric Obesity Treatment. *Health psychology : official journal of the Division of Health Psychology, American Psychological Association*. 2007;**26**(4):381-91.
- 31. Cole TJ, Bellizzi MC, Flegal KM, Dietz WH. Establishing a standard definition for child overweight and obesity worldwide: international survey. *BMJ*. 2000;**320**(7244):1240-3.
- Cole TJ, Lobstein T. Extended international (IOTF) body mass index cut-offs for thinness, overweight and obesity. *Pediatr Obes*. 2012;7(4):284-94.
- 33. Harvard T.H. Chan School of Public Health. Obesity Prevention Source: Obesity Definition: Defining Childhood Obesity [Internet]. 2015 [cited 2015 Nov 25]. Available from: <u>http://www.hsph.harvard.edu/obesity-prevention-source/obesity-definition/defining-childhood-obesity/</u>.
- McLean N, Griffin S, Toney K, Hardeman W. Family involvement in weight control, weight maintenance and weight-loss interventions: a systematic review of randomised trials. *Int J Obes Relat Metab Disord*. 2003;27(9):987-1005.
- 35. Cochrane Consumer Network. What is a systematic review? 2017 [cited 2017 Nov 20]. Available from: <u>http://consumers.cochrane.org/what-systematic-review</u>.
- 36. Aromataris E, Fernandez R, Godfrey C, Holly C, Kahlil H, Tungpunkom P. Methodology for JBI umbrella reviews. Joanna Briggs Institute Reviewer's Manual 2014. Adelaide: The Joanna Briggs Institute; 2014 [cited 2017 Oct 27. Available from: <u>http://joannabriggs.org/assets/docs/sumari/ReviewersManual-Methodology-</u> <u>JBI_Umbrella%20Reviews-2014.pdf</u>.

- Chai LK, Burrows T, May C, Brain K, Wong See D, Collins C. Effectiveness of family-based weight management interventions in childhood obesity: an umbrella review protocol. *JBI Database System Rev Implement Rep.* 2016;**14**(9):32-9.
- 38. Guyatt GH, Oxman AD, Vist GE, et al. GRADE: an emerging consensus on rating quality of evidence and strength of recommendations. *BMJ*. 2008;**336**(7650):924-6.
- Rajjo T, Mohammed K, Alsawas M, et al. Treatment of Pediatric Obesity: An Umbrella Systematic Review. J Clin Endocrinol Metab. 2017;102(3):763-75.
- Barr-Anderson DJ, Adams-Wynn AW, DiSantis KI, Kumanyika S. Family-focused physical activity, diet and obesity interventions in African-American girls: a systematic review. *Obes Rev.* 2013;**14**(1):29-51.
- 41. Jull A, Chen R. Parent-only vs. parent-child (family-focused) approaches for weight loss in obese and overweight children: A systematic review and meta-analysis. *Obes Rev.* 2013;**14**(9):761-8.
- 42. Kelishadi R, Azizi-Soleiman F. Controlling childhood obesity: A systematic review on strategies and challenges. *J Res Med Sci*. 2014;**19**(10):993-1008.
- Kitzman-Ulrich H, Wilson DK, St George SM, Lawman H, Segal M, Fairchild A. The integration of a family systems approach for understanding youth obesity, physical activity, and dietary programs. *Clin Child Fam Psychol Rev.* 2010;**13**(3):231-53.
- 44. Knowlden AP, Sharma M. Systematic review of family and home-based interventions targeting paediatric overweight and obesity. *Obes Rev.* 2012;**13**(6):499-508.
- 45. Sung-Chan P, Sung YW, Zhao X, Brownson RC. Family-based models for childhood-obesity intervention: a systematic review of randomized controlled trials. *Obes Rev.* 2013;**14**(4):265-78.
- 46. Young KM, Northern JJ, Lister KM, Drummond JA, O'Brien WH. A meta-analysis of familybehavioral weight-loss treatments for children. *Clin Psychol Rev.* 2007;**27**(2):240-9.
- 47. Australian Government Department of Health. Australia's Physical Activity and Sedentary Behaviour Guidelines 2017 [updated 2017 Nov 21; cited 2017 Dec 1]. Available from: <u>http://www.health.gov.au/internet/main/publishing.nsf/content/health-publith-strateg-phys-act-guidelines#npa05</u>.
- Birch LL, Fisher JO. Development of eating behaviors among children and adolescents. *Pediatrics*. 1998;**101**(3 Pt 2):539-49.
- 49. Birch L, Savage JS, Ventura A. Influences on the Development of Children's Eating Behaviours: From Infancy to Adolescence. *Canadian journal of dietetic practice and research : a publication of Dietitians of Canada = Revue canadienne de la pratique et de la recherche en dietetique : une publication des Dietetistes du Canada*. 2007;**68**(1):s1-s56.
- 50. Birch LL, Davison KK. Family environmental factors influencing the developing behavioral controls of food intake and childhood overweight. *Pediatr Clin North Am.* 2001;**48**(4):893-907.
- 51. Scaglioni S, Salvioni M, Galimberti C. Influence of parental attitudes in the development of children eating behaviour. *Br J Nutr.* 2008;**99 Suppl 1**:S22-5.

- 52. Golan M. Parents as agents of change in childhood obesity--from research to practice. *Int J Pediatr Obes.* 2006;**1**(2):66-76.
- 53. Wilfley DE, Kass AE, Kolko RP. Counseling and Behavior Change in Pediatric Obesity. *Pediatr Clin North Am.* 2011;**58**(6):1403-x.
- 54. McAllister F, Burgess A, Kato J, Barker G. Fatherhood: Parenting programmes and policy a critical review of best practice. Washington, DC: 2012.
- 55. Berlyn C, Wise S, Soriano G. Engaging Fathers in Child and Family Services (Occasional Paper No.22). Canberra: 2008.
- 56. Fletcher R, May C, St George J, Stoker L, Oshan M. Engaging fathers: Evidence review. Canberra: Australian Research Alliance for Children and Youth (ARACY), 2014.
- 57. Gicevic S, Aftosmes-Tobio A, Manganello JA, et al. Parenting and childhood obesity research: a quantitative content analysis of published research 2009–2015. *Obes Rev.* 2016;**17**(8):724-34.
- Rhee K. Childhood Overweight and the Relationship between Parent Behaviors, Parenting Style, and Family Functioning. *The ANNALS of the American Academy of Political and Social Science*. 2008;615(1):11-37.
- 59. Freeman E, Fletcher R, Collins CE, Morgan PJ, Burrows T, Callister R. Preventing and treating childhood obesity: time to target fathers. *Int J Obes (Lond)*. 2012;**36**(1):12-5.
- 60. Mallan KM, Nothard M, Thorpe K, et al. The role of fathers in child feeding: perceived responsibility and predictors of participation. *Child Care Health Dev*. 2014;**40**(5):715-22.

Appendix I: Search strategy

Database: MEDLINE 1946 to Present with Daily Update (searched on 2nd May 2016)

#	Searches
1	systematic review.mp,pt.
2	systematic*.mp,pt.
3	review*.mp,pt.
4	meta analys*.mp,pt.
5	metaanalys*.mp,pt.
6	meta-analys*.mp,pt
7	1 or 2 or 3 or 4 or 5 or 6
8	lifestyle*.mp.
9	behavio?r*.mp.
10	family.mp.
11	families.mp.
12	family-based.mp.
13	parents.mp.
14	parent*.mp.
15	mother*.mp.
16	father*.mp.
17	carer*.mp.
18	guardian*.mp.
19	grandparent*.mp.
20	grandfather*.mp.
21	grandmother*.mp.
22	sibling*.mp.
23	coparent*.mp.
24	co-parent*.mp.
25	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
26	p?ediatric*mp.
27	child*.mp.
28	kid*.mp.
29	toddler*.mp.
30	(preschooler* or preschooler*).mp.
31	adolescent*.mp.
32	teenager*.mp.
33	youth*.mp.
34	youngster*.mp.
35	26 or 27 or 28 or 29 or 30 or 31 or 32 or 33 or 34
36	overweight.mp.
37	obese.mp.
38	obes*.mp.
39	weight manag*.mp.
40	weight loss.mp.
41	weight control*.mp.
42	(overweight* adj5 intervention*).mp.
43	(overweight* adj5 treatment*).mp.
44	(overweight* adj5 program*).mp.

45	(weight* adj5 intervention*).mp.
46	(weight* adj5 treatment*).mp.
47	(weight* adj5 program*).mp.
48	(obes* adj5 intervention*).mp.
49	(obes* adj5 treatment*).mp.
50	(obes* adj5 program*).mp.
51	36 or 37 or 38 or 39 or 40 or 41 or 42 or 43 or 44 or 45 or 46 or 47 or 48 or 49 or 50
52	7 and 25 and 35 and 51
53	limit 52 to (english language and yr="1990 -Current")

Database: Embase 1974 to 2016 Week 18 (searched on 2nd May 2016)

#	Searches
1	systematic review.mp.
2	systematic*.mp.
3	review*.mp.
4	meta analys*.mp.
5	metaanalys*.mp.
6	1 or 2 or 3 or 4 or 5
7	lifestyle*.mp.
8	behavio?r*.mp.
9	family.mp.
10	families.mp.
11	family-based.mp.
12	parents.mp.
13	parent*.mp.
14	mother*.mp.
15	father*.mp.
16	carer*.mp.
17	guardian*.mp.
18	grandparent*.mp.
19	grandfather*.mp.
20	grandmother*.mp.
21	sibling*.mp.
22	coparent*.mp.
23	co-parent*.mp.
24	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
25	p?ediatric*.mp.
26	child*.mp.
27	kid*.mp.
28	toddler*.mp.
29	(preschooler* or pre-schooler*).mp.
30	adolescen*.mp.
31	teenager*.mp.

- 32 youth*.mp.
- 33 youngster*.mp.

34 25 or 26 or 27 or 28 or 29 or 30 or 31 or 32 or 33

- 35 overweight.mp.
- 36 obese.mp.
- 37 obes*.mp.
- 38 weight manag*.mp.
- 39 weight loss.mp.
- 40 weight control*.mp.
- 41 (overweight* adj5 intervention*).mp.
- 42 (overweight* adj5 treatment*).mp.
- 43 (overweight* adj5 program*).mp.
- 44 (weight* adj5 intervention*).mp.
- 45 (weight* adj5 treatment*).mp.
- 46 (weight* adj5 program*).mp.
- 47 (obes* adj5 intervention*).mp.
- 48 (obes* adj5 treatment*).mp.
- 49 (obes* adj5 program*).mp.
- 50 35 or 36 or 37 or 38 or 39 or 40 or 41 or 42 or 43 or 44 or 45 or 46 or 47 or 48 or 49
- 51 6 and 24 and 34 and 50
- 52 limit 51 to (english language and yr="1990 -Current")

Database: PsycINFO 1806 to April Week 4 2016 (searched on 2nd May 2016)

#	Searches
1	systematic review.mp.
2	systematic*.mp.
3	review*.mp.
4	meta analys*.mp.
5	metaanalys*.mp.
6	1 or 2 or 3 or 4 or 5
7	lifestyle*.mp.
8	behavio?r*.mp.
9	family.mp.
10	families.mp.
11	family-based.mp.
12	parents.mp.
13	parent*.mp.
14	mother*.mp.
15	father*.mp.
16	carer*.mp.
17	guardian*.mp.
18	grandparent*.mp.

19	grandfather*.mp.
20	grandmother*.mp.
21	sibling*.mp.
22	coparent*.mp.
23	co-parent*.mp.
24	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
25	p?ediatric*.mp.
26	child*.mp.
27	kid*.mp.
28	toddler*.mp.
29	(preschooler* or pre-schooler*).mp.
30	adolescen*.mp.
31	teenager*.mp.
32	youth*.mp.
33	youngster*.mp.
34	25 or 26 or 27 or 28 or 29 or 30 or 31 or 32 or 33
35	overweight.mp.
36	obese.mp.
37	obes*.mp.
38	weight manag*.mp.
39	weight loss.mp.
40	weight control*.mp.
41	(overweight* adj5 intervention*).mp.
42	(overweight* adj5 treatment*).mp.
43	(overweight* adj5 program*).mp.
44	(weight* adj5 intervention*).mp.
45	(weight* adj5 treatment*).mp.
46	(weight* adj5 program*).mp.
47	(obes* adj5 intervention*).mp.
48	(obes* adj5 treatment*).mp.
49	(obes* adj5 program*).mp.
50	35 or 36 or 37 or 38 or 39 or 40 or 41 or 42 or 43 or 44 or 45 or 46 or 47 or 48 or 49
51	6 and 24 and 34 and 50
52	limit 51 to (english language and yr="1990 -Current")

Database: CINAHL Complete (searched on 2nd May 2016)

#	Searches
S1	(MM "Systematic Review") OR (MH "Meta Analysis")
S2	TI 'systematic review' OR AB 'systematic review' OR PT 'systematic review'
S3	TI systematic* OR AB systematic* OR PT systematic*
S4	TI review* OR AB review* OR PT review*
S5	TI 'meta analys*' OR AB 'meta analys*' OR PT 'meta analys*'

S6	TI metaanalys* OR AB metaanalys* OR PT metaanalys*
S7	TI meta-analys* OR AB meta-analys* OR PT meta-analys*
S8	S1 OR S2 OR S3 OR S4 OR S5 OR S6 OR S7
S9	(MH "Life Style Changes") OR (MH "Life Style, Sedentary") OR (MH "Life Style") OR (MH "Health Behavior") OR (MH "Family Health") OR (MH "Family Services") OR (MH "Family Centered Care") OR (MH "Parents")
S10	TI lifestyle OR AB lifestyle
S11	TI behavio?r* OR AB behavio?r*
S12	TI family OR AB family
S13	TI families OR AB families
S14	TI family-based OR AB family-based
S15	TI parents OR AB parents
S16	TI parent* OR AB parent*
S17	TI mother* OR AB mother*
S18	TI father* OR AB father*
S19	TI carer* OR AB carer*
S20	TI guardian* OR AB guardian*
S21	TI grandparent* OR AB grandparent*
S22	TI grandfather* OR AB grandfather*
S23	TI grandmother* OR AB grandmother*
S24	TI sibling* OR AB sibling*
S25	TI coparent* OR AB coparent*
S26	TI co-parent* OR AB co-parent*
S27	S9 OR S10 OR S11 OR S12 OR S13 OR S14 OR S15 OR S16 OR S17 OR S18 OR S19 OR S20 OR S21 OR S22 OR S23 OR S24 OR S25 OR S26
S28	TI (p?ediatric*) OR AB (p?ediatric*)
S29	TI child* OR AB child*
S30	TI kid* OR AB kid*
S31	TI toddler* OR AB toddler*
S32	TI (preschooler* or pre-schooler*) OR AB (preschooler* or pre-schooler*)
S33	TI adolescen* OR AB adolescen*
S34	TI teenager* OR AB teenager*
S35	TI youth* OR AB youth*
S36	TI youngster* OR AB youngster*
S37	S28 OR S29 OR S30 OR S31 OR S32 OR S33 OR S34 OR S35 OR S36
S38	(MM "Pediatric Obesity") OR (MM "Obesity+") OR (MH "Weight Control") OR (MH "Weight
	Reduction Programs")
S39	TI overweight OR AB overweight
S40	TI obese OR AB obese
S41	TI obes* OR AB obes*
S42	TI 'weight manag*' OR AB 'weight manag*'
S43	TI 'weight loss' OR AB 'weight loss'
S44	TI 'weight control*' OR AB 'weight control*'

S45	TI (overweight* N5 intervention*) OR AB (overweight* N5 intervention*)
S46	TI (overweight* N5 treatment*) OR AB (overweight* N5 treatment*)
S47	TI (overweight* N5 program*) OR AB (overweight* N5 program*)
S48	TI (weight* N5 intervention*) OR AB (weight* N5 interventIon*)
S49	TI (weight* N5 treatment*) OR AB (weight* N5 treatment*)
S50	TI (weight* N5 program*) OR AB (weight* N5 program*)
S51	TI (obes* N5 intervention*) OR AB (obes* N5 intervention*)
S52	TI (obes* N5 treatment*) OR AB (obes* N5 treatment*)
S53	TI (obes* N5 program*) OR AB (obes* N5 program*)
S54	S38 OR S39 OR S40 OR S41 OR S42 OR S43 OR S44 OR S45 OR S46 OR S47 OR S48
	OR S49 OR S50 OR S51 OR S52 OR S53
S55	S8 AND S27 AND S37 AND S54 (Limiters - Published Date: 19900101-; English Language)

Database: Cochrane Library – DARE and CDSR (searched on 2nd May 2016)

#	Searches
#1	"systematic review":ti,ab,kw or "systematic review":pt (Word variations have been searched)
#2	"systematic":ti,ab,kw or "systematic":pt (Word variations have been searched)
#3	"review":ti,ab,kw or "review":pt (Word variations have been searched)
#4	"meta analys*":ti,ab,kw and "meta analys*":pt (Word variations have been searched)
#5	metaanalys*:ti,ab,kw or metaanalys*:pt (Word variations have been searched)
#6	meta-analys*:ti,ab,kw or meta-analys*:pt (Word variations have been searched)
#7	MeSH descriptor: [Review] explode all trees
#8	MeSH descriptor: [Meta-Analysis] explode all trees
#9	MeSH descriptor: [Meta-Analysis as Topic] explode all trees
#10	#1 or #2 or #3 or #4 or #5 or #6 or #7 or #8 or #9
#11	lifestyle:ti,ab,kw (Word variations have been searched)
#12	behaviour:ti,ab,kw (Word variations have been searched)
#13	family:ti,ab,kw (Word variations have been searched)
#14	"families":ti,ab,kw (Word variations have been searched)
#15	family-based:ti,ab,kw (Word variations have been searched)
#16	parents:ti,ab,kw (Word variations have been searched)
#17	"parent":ti,ab,kw (Word variations have been searched)
#18	mother:ti,ab,kw (Word variations have been searched)
#19	"father":ti,ab,kw (Word variations have been searched)
#20	carer:ti,ab,kw (Word variations have been searched)
#21	guardian:ti,ab,kw (Word variations have been searched)
#22	grandparent:ti,ab,kw (Word variations have been searched)
#23	grandfather:ti,ab,kw (Word variations have been searched)
#24	grandmother:ti,ab,kw (Word variations have been searched)
#25	sibling:ti,ab,kw (Word variations have been searched)
#26	coparent:ti,ab,kw (Word variations have been searched)
#27	co-parent:ti,ab,kw (Word variations have been searched)
#28	MeSH descriptor: [Life Style] this term only

#29	MeSH descriptor: [Behavior] this term only									
#30	MeSH descriptor: [Family] this term only									
#31	MeSH descriptor: [Parents] explode all trees									
#32	MeSH descriptor: [Siblings] explode all trees									
#33	#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									
#34	"p*ediatric*":ti,ab,kw (Word variations have been searched)									
#35	child:ti,ab,kw (Word variations have been searched)									
#36	kid:ti,ab,kw (Word variations have been searched)									
#37	toddler:ti,ab,kw (Word variations have been searched)									
#38	"preschooler":ti,ab,kw or "pre-schooler":ti,ab,kw (Word variations have been searched)									
#39	adolescen*:ti,ab,kw (Word variations have been searched)									
#40	teenager:ti,ab,kw (Word variations have been searched)									
#41	youth:ti,ab,kw (Word variations have been searched)									
#42	youngster:ti,ab,kw (Word variations have been searched)									
#43	#34 or #35 or #36 or #37 or #38 or #39 or #40 or #41 or #42									
#44	overweight:ti,ab,kw (Word variations have been searched)									
#45	obese:ti,ab,kw (Word variations have been searched)									
#46	"obes*":ti,ab,kw (Word variations have been searched)									
#47	"weight manag*":ti,ab,kw (Word variations have been searched)									
#48	"weight loss":ti,ab,kw (Word variations have been searched)									
#49	"weight control*":ti,ab,kw (Word variations have been searched)									
#50	overweight* near intervention*:ti,ab,kw (Word variations have been searched)									
#51	overweight* near treatment*:ti,ab,kw (Word variations have been searched)									
#52	overweight* near program*:ti,ab,kw (Word variations have been searched)									
#53	weight* near intervention*:ti,ab,kw (Word variations have been searched)									
#54	weight* near treatment*:ti,ab,kw (Word variations have been searched)									
#55	weight* near program*:ti,ab,kw (Word variations have been searched)									
#56	obes* near intervention*:ti,ab,kw (Word variations have been searched)									
#57	obes* near treatment*:ti,ab,kw (Word variations have been searched)									
#58	obes* near program*:ti,ab,kw (Word variations have been searched)									
#59	MeSH descriptor: [Pediatric Obesity] explode all trees									
#60	MeSH descriptor: [Weight Loss] explode all trees									
#61	MeSH descriptor: [Weight Reduction Programs] explode all trees									
#62	MeSH descriptor: [Body Weight Changes] explode all trees									
#63	#44 or #45 or #46 or #47 or #48 or #49 or #50 or #51 or #52 or #53 or #54 or #55 or #56 or									
	#57 or #58 or #59 or #60 or #61 or #62									
#64	#10 and #33 and #43 and #63									
#65	#10 and #33 and #43 and #63 Publication Year from 1990 (Word variations have been									
	searched)									

Database: Scopus (searched on 2nd May 2016)

#	Searches
#1	(TITLE-ABS-KEY ("systematic review") OR TITLE-ABS-KEY (systematic*) OR TITLE-ABS-KEY (review*) OR TITLE-ABS-KEY ("meta analys*") OR TITLE-ABS-KEY (meta-analys*) OR TITLE-ABS-KEY (meta-analys*))
#2	TITLE-ABS-KEY (lifestyle*) OR TITLE-ABS-KEY (behavio?r*)OR TITLE-ABS-KEY (family) OR TITLE-ABS-KEY (families) OR TITLE-ABS-KEY ("family-based") OR TITLE-ABS-KEY (parents) OR TITLE-ABS-KEY (parent*) OR TITLE-ABS-KEY (mother*) OR TITLE-ABS-KEY (father*) OR TITLE-ABS-KEY (carer*) OR TITLE- ABS-KEY (guardian*) OR TITLE-ABS-KEY (grandparent*) OR TITLE-ABS-KEY (grandfather*) OR TITLE-ABS-KEY (grandmother*) OR TITLE-ABS-KEY (sibling*) OR TITLE-ABS-KEY (coparent*) OR TITLE-ABS-KEY ("co-parent*")
#3	TITLE-ABS-KEY (p?ediatric*) OR TITLE-ABS-KEY (child*) OR TITLE-ABS-KEY (kid*) OR TITLE-ABS-KEY (toddler*) OR TITLE-ABS-KEY (preschooler*) OR TITLE- ABS-KEY (pre-schooler*) OR TITLE-ABS-KEY (adolescen*) OR TITLE-ABS-KEY (teenager*) OR TITLE-ABS-KEY (youth*) OR TITLE-ABS-KEY (youngster*)
#4	TITLE-ABS-KEY (overweight) OR TITLE-ABS-KEY (obese) OR TITLE-ABS-KEY (obes*) OR TITLE-ABS-KEY ("weight manag*") OR TITLE-ABS-KEY ("weight loss") OR TITLE-ABS-KEY ("weight control*") OR TITLE-ABS-KEY (overweight* W/5 intervention*) OR TITLE-ABS-KEY (overweight* W/5 treatment*) OR TITLE-ABS- KEY (overweight* W/5 program*) OR TITLE-ABS-KEY (weight* W/5 intervention*) OR TITLE-ABS-KEY (weight* W/5 treatment*) OR TITLE-ABS-KEY (weight* W/5 program*) OR TITLE-ABS-KEY (obes* W/5 intervention*) OR TITLE-ABS-KEY (weight* W/5 treatment*) OR TITLE-ABS-KEY (weight* W/5 program*) OR TITLE-ABS-KEY (obes* W/5 intervention*) OB TITLE-ABS-KEY (obes* W/5 treatment*) OR TITLE-ABS-KEY (weight* W/5
#5	#1 AND #2 AND #3 AND #4 AND PUBYEAR > 1989
#6	#5 AND (LIMIT-TO (EXACTKEYWORD , "Child"))

Primary studios	Included systematic reviews (n=14)													
included in systematic reviews (n=47)	Barr- Anders on (2013)	Berge (2011)	Berry (2004)	Ewald (2014)	Jang (2015)	Jull (2013)	Kelisha di (2014)	Kitzma n- Ulrich (2010)	Knowld en (2012)	Kothan dan (2014)	Lovem an (2015)	Sung Chan (2013)	Upton (2014)	Young (2007)
Aragona 1975											v	v		
Bean 2012							v							
Beech 2003		v												v
Boutelle 2001				v		v					v			
Coates 1982			v					v						
Collins 2011				v							v			
Coppins 2011													v	
Danielsen 2013							v							
Epstein 2000		v					v							
Epstein 2001		v												
Esfarjani 2013											v			
Estabrooks 2009					v						v			
Golan 1998		v		v					v					
Golan 2004		v							v					
Golan 2006		v		v		v		v	v	v	v			
Golley 2007		v									v			
Gunnarsdottir 2012							v							
Hughes 2008							v							
Janicke 2008		v		v		v		v		v	v	v		
Janicke 2011	v													
Jansen 2011					v						v			
Jiang 2005		v					v			v		v		
Kalarchian 2009										v				

Appendix II: List of relevant primary studies included in systematic reviews

Primary studies included in systematic reviews (n=47)	Included systematic reviews (n=14)													
	Barr- Anders on (2013)	Berge (2011)	Berry (2004)	Ewald (2014)	Jang (2015)	Jull (2013)	Kelisha di (2014)	Kitzma n- Ulrich (2010)	Knowld en (2012)	Kothan dan (2014)	Lovem an (2015)	Sung Chan (2013)	Upton (2014)	Young (2007)
Kalavainen 2007		v					v							
Kalavainen 2012							v							
MacDonell 2011	v													
Mazzeo 2012					v									
Mazzeo 2014					v						v			
Munsch 2008				v				v			v			
Nowicka 2008								v						
Okely 2010				v										
Raman 2010	v													
Resnick 2009											v			
Resnicow 2015	v										v			
Rodearmel 2006												v		
Sacher 2010							v						v	
Savoye 2011							v							
Shelton 2007					v			v	v			v		
Small 2013											v			
Stark 2011							v		v					
van Grieken 2013											v			
Vos 2012							v							
Wadden 1990	v													
West 2010					v		v		v		v	v		
Wheeler 1976												v		
White 2004												v		
Williamson 2006	v													

Note: 'v' indicates a primary study was included in a systematic review.

Appendix III: List of excluded studies

Studies excluded	+
Acosta MC, Manubay J, Levin FR. Pediatric obesity: parallels with addiction and treatment recommendations. Harvard Review of Psychiatry. 2008;16(2):80-96.	В
Agras WS, Mascola AJ. Risk factors for childhood overweight. Current Opinion in Pediatrics. 2005;17(5):648-52.	В
Aguilar Cordero MJ, Ortegón Piñero A, Mur Vilar N, Sánchez García JC, García Verazaluce JJ, García García I, et al. Physical activity programmes to reduce overweight and obesity in children and adolescents; a systematic review]. Nutricion Hospitalaria. 2014;30:727-40 14p.	А
Aikenhead A, Knai C. Child obesity: Is surgery effective and cost-effective? A literature review. Obesity Reviews. 2010;11:253-4.	В
Ajie WN, Chapman-Novakofski KM. Impact of computer-mediated, obesity-related nutrition education interventions for adolescents: a systematic review. Journal of Adolescent Health. 2014;54(6):631-45.	Е
Al Marzooqi MA, Christine Nagy M. Childhood obesity intervention programs: A systematic review. Life Science Journal. 2011;8(4):45-60.	D
Allender S, Cowburn G, Foster C. Understanding participation in sport and physical activity among children and adults: a review of qualitative studies. Health Education Research. 2006;21(6):826-35.	В
Allison DB, Faith MS, Gorman BS. Publication bias in obesity treatment trials? International Journal of Obesity. 1996;20(10):931-7.	В
Allison DB, Pi-Sunyer FX. Obesity treatment: Establishing goals, improving outcomes, and reviewing the research agenda. Obesity treatment: Establishing goals, improving outcomes, and reviewing the research agenda. 1995.	В
Al-Shawwa BA, Al-Huniti NH, DeMattia L, Gershan W. Asthma and insulin resistance in morbidly obese children and adolescents. Journal of Asthma. 2007;44(6):469-73.	В
Altman M, Wilfley DE. Evidence update on the treatment of overweight and obesity in children and adolescents. Journal of Clinical Child and Adolescent Psychology. 2015;44(4):521-37.	Е
Alustiza E, Aranceta J. Prevention and treatment of childhood obesity in primary health care. Revista Espanola de Nutricion Comunitaria. 2004;10(4):192-6.	А
Amendoeira J, Godinho C, Candido A. Intervention programs to prevent obesity in childrens and adolescents. a systematic literature review. Atencion Primaria. 2013;45:22.	В
American Dietetic A. Position of the American Dietetic Association: individual-, family-, school-, and community-based interventions for pediatric overweight. Journal of the American Dietetic Association. 2006;106(6):925-45.	Е
Amini M, Djazayery A, Majdzadeh R, Taghdisi MH, Jazayeri S. Effect of school-based interventions to control childhood obesity: A review of reviews. International Journal of Preventive Medicine. 2015;2015(AUGUST).	В
Ammerman AS, Ward DS, Benjamin SE, Ball SC, Sommers JK, Molloy M, et al. An intervention to promote healthy weight: Nutrition and Physical Activity Self-Assessment for Child Care (NAP SACC) theory and design. Preventing Chronic Disease. 2007;4(3):A67.	В
An JY, Hayman LL, Park YS, Dusaj TK, Ayres CG. Web-based weight management programs for children and adolescents: a systematic review of randomized controlled trial studies. Advances in Nursing Science. 2009;32(3):222-40.	Е
Anand SG, Adams WG, Zuckerman BS. Specialized care of overweight children in community health centers. Health Affairs. 2010;29(4):712-7.	В
Andersen CJ, Fernandez ML. Dietary strategies to reduce metabolic syndrome. Reviews in Endocrine & Metabolic Disorders. 2013;14(3):241-54.	В
--	---
Anderson BJ, Cullen K, McKay S. Quality of life, family behavior, and health outcomes in children with type 2 diabetes. Pediatric Annals. 2005:34(9):722-9.	В
Anderson LM, Phelps L. School-wide healthy weight behaviors: Promoting Universal Longevity via School-Family Ecologies (PULSE). Special Issue: Obesity in the schools. 2009;46(8):748-55.	В
Anderson YC, Cave TL, Cunningham VJ, Pereira NM, Woolerton DM, Grant CC, et al. Effectiveness of current interventions in obese New Zealand children and adolescents. Obesity Research and Clinical Practice. 2014;8:2.	В
Antwi F, Fazylova N, Garcon MC, Lopez L, Rubiano R, Slyer JT. The effectiveness of web-based programs on the reduction of childhood obesity in school-aged children: A systematic review. JBI Database of Systematic Reviews and Implementation Reports. 2012;10:S177-S90.	В
Antwi FA, Fazylova N, Garcon MC, Lopez L, Rubiano R, Slyer JT. Effectiveness of web-based programs on the reduction of childhood obesity in school-aged children: A systematic review. JBI Database of Systematic Reviews and Implementation Reports. 2013;11(6):1-44.	Е
Anzman-Frasca S, Stifter CA, Birch LL. Temperament and childhood obesity risk: a review of the literature. Journal of Developmental & Behavioral Pediatrics. 2012;33(9):732-45.	В
Apovian CM, Baker C, Ludwig DS, Hoppin AG, Hsu G, Lenders C, et al. Best practice guidelines in pediatric/adolescent weight loss surgery. Obesity Research. 2005;13(2):274-82.	D
Ara I, Vicente-Rodríguez G, Moreno LA, Gutin B, Casajus JA. Child obesity can be better reduced through vigorous physical activity rather than through energy intake restriction. Apunts Medicina de l'Esport. 2009;44(163):111-8.	В
Arai L, Panca M, Morris S, Curtis-Tyler K, Lucas PJ, Roberts HM. Time, monetary and other costs of participation in family-based child weight management interventions: Qualitative and systematic review evidence. PLoS ONE. 2015;10(4).	В
Arce ABG, Jay M, Bruzzese JM. Treatment-seeking overweight preschoolers have reduced health-related quality of life compared with nonclinical preschoolers. Journal of Clinical Outcomes Management. 2013;20(1):9-11.	В
Arden MR. The office diagnosis and treatment of pediatric and adolescent obesity. Children's Hospital Quarterly. 1993;5(2):107-11.	В
Ariza AJ, Greenberg RS, Unger R. Childhood overweight: management approaches in young children. Pediatric Annals. 2004;33(1):33-8.	В
Askie L, Baur L, Campbell K, Daniels L, Taylor B, L MW, et al. Generating evidence of reduced rates of overweight/ obesity in children: Value adding to four established Australasian early intervention trials. Obesity Facts. 2012;5:258-9.	В
Askie L, Martin A, Espinoza D, Campbell K, Daniels LA, Hesketh K, et al. What does the EPOCH (early prevention of obesity in childhood) prospective meta-analysis tell us about early life obesity prevention? Obesity Research and Clinical Practice. 2014;8:3-4.	В
Atlantis E, Barnes EH, Singh MAF. Efficacy of exercise for treating overweight in children and adolescents: A systematic review. International Journal of Obesity. 2006;30(7):1027-40.	Е
Audrey S, Batista-Ferrer H. Healthy urban environments for children and young people: A systematic review of intervention studies. Health and Place. 2015;36:97-117.	Е
Avis J, Ambler KA, Jetha M, Ball G, Opoku H. The impact of an interdisciplinary, family-centered, and unstructured intervention for children and youth with obesity. Canadian Journal of Diabetes. 2013;37:S271-S2.	В
Avis JLS, Ambler KA, Jetha MM, Boateng H, Ball GDC. Modest treatment effects and high program attrition: The impact of interdisciplinary, individualized care for managing paediatric obesity. Paediatrics and Child Health (Canada). 2013;18(10):e59-e63.	В

Azcona San Julían C, Romero Montero A, Bastero Miñón P, Santamaría Martínez E. Child obesity. Revista Espanola de Obesidad. 2005;3(1):26-39.	А
Badaly D. Peer similarity and influence for weight-related outcomes in adolescence: a meta-analytic review. Clinical Psychology Review. 2013;33(8):1218-36.	Е
Baker S, Barlow S, Cochran W, Fuchs G, Klish W, Krebs N, et al. Overweight children and adolescents: a clinical report of the North American Society for Pediatric Gastroenterology, Hepatology and Nutrition. Journal of Pediatric Gastroenterology & Nutrition. 2005;40(5):533-43.	В
Balagopal P. Obesity-related cardiovascular risk in children and the role of lifestyle changes. Journal of the CardioMetabolic Syndrome. 2006;1(4):269-74; quiz 75-6.	В
Ball GD, McCargar LJ. Childhood obesity in Canada: a review of prevalence estimates and risk factors for cardiovascular diseases and type 2 diabetes. Canadian Journal of Applied Physiology. 2003;28(1):117-40.	В
Bambra C, Hillier F, Cairns-Nagi J, Kasim A, Moore H, Summerbell C. How effective are interventions at reducing socioeconomic inequalities in obesity among children and adults? Two systematic reviews (Structured abstract). Health Technology Assessment Database [Internet]. 2015 [cited CC D]; (4). Available from: http://onlinelibrary.wiley.com/o/cochrane/clhta/articles/HTA-32015000105/frame.html.	D
Bambra CL, Hillier FC, Moore HJ, Summerbell CD. Tackling inequalities in obesity: a protocol for a systematic review of the effectiveness of public health interventions at reducing socioeconomic inequalities in obesity amongst children. Systems Review. 2012;1:16.	В
Banerjee R, Leeson P. Tackling childhood obesity as a strategy in cardiovascular risk reduction. European Cardiology. 2011;7(3):160-3.	В
Baranowski T, O'Connor T, Johnston C, Hughes S, Moreno J, Chen TA, et al. School year versus summer differences in child weight gain: a narrative review. Childhood Obesity. 2014;10(1):18-24.	В
Baranowski T. School-based obesity-prevention interventions in low- and middle-income countries: Do they really work? American Journal of Clinical Nutrition. 2012;96(2):227-8.	В
Barlow SE. Expert committee recommendations regarding the prevention, assessment, and treatment of child and adolescent overweight and obesity: summary report. Pediatrics. 2007;120 Suppl 4:S164-92.	В
Barr-Anderson DJ, Singleton C, Cotwright CJ, Floyd MF, Affuso O. Outside-of-school time obesity prevention and treatment interventions in African American youth. Obesity Reviews. 2014;15 Suppl 4:26-45.	Е
Barter PJ, Shear CL. Aggressive management of obesity in children and young adults: The known challenges and potential opportunities. Clinical Pharmacology and Therapeutics. 2007;81(5):627-30.	В
Baskin ML, Ahluwalia HK, Resnicow K. Obesity intervention among African-American children and adolescents. Pediatric Clinics of North America. 2001;48(4):1027-39.	В
Batch JA, Baur LA. 3. Management and prevention of obesity and its complications in children and adolescents. Medical Journal of Australia. 2005;182(3):130-5.	В
Baughcum AE, Gramling K, Eneli I. Severely obese preschoolers in a tertiary care obesity program: Characteristics and management. Clinical Pediatrics. 2015;54(4):346-52.	В
Baumer JH. Obesity and overweight: its prevention, identification, assessment and management. Archives of Disease in Childhood Education & Practice. 2007;92(3):ep92-6.	В
Baur LA, Hazelton B, Shrewsbury VA. Assessment and management of obesity in childhood and adolescence. Nature Reviews Gastroenterology & Hepatology. 2011;8(11):635-45.	В

Baur LA. Managing childhood obesity: Evidence, clinical guidelines and implementation. International Journal of Pediatric Obesity. 2009;4:12.	В
Baur LA. Treatment of childhood obesity. Australian Prescriber. 2003;26(2):30-2.	В
Beatty P. Review of Bodywise: A Family Group Program for Child Obesity. ANZJFT Australian and New Zealand Journal of Family Therapy. 2005;26(1):55-6.	В
Beauchamp A, Backholer K, Magliano D, Peeters A. The effect of obesity prevention interventions according to socioeconomic position: a systematic review. Obesity Reviews. 2014;15(7):541-54.	D
Beaudoin J, Pellon-Irwin P, Brown N. Pediatric obesity. Family's role essential to treatment. Advance for Nurse Practitioners. 2004;12(1):59- 63.	В
Bender MS, Choi J, Won GY, Fukuoka Y. Randomized controlled trial lifestyle interventions for Asian Americans: a systematic review. Preventive Medicine. 2014;67:171-81 11p.	С
Berge JM. A review of familial correlates of child and adolescent obesity: what has the 21st century taught us so far? International Journal of Adolescent Medicine & Health. 2009;21(4):457-83.	В
Bergmann KE, Bergmann RL. Treatment of childhood and adolescent obesity. Pediatrics and Related Topics. 1997;35(5):409-24.	А
Berner N, Jay M, Lewis K, Hung W, Squires A, Ngai G. Comparison of parent and child versus child-only weight management interventions in the patient-centered medical home. Journal of Clinical Outcomes Management. 2015;22(2):57-60.	В
Bhuyan SS, Chandak A, Smith P, Carlton EL, Duncan K, Gentry D. Integration of public health and primary care: A systematic review of the current literature in primary care physician mediated childhood obesity interventions. Obesity Research and Clinical Practice. 2015;9(6):539- 52.	Е
Biddle SJ, Petrolini I, Pearson N. Interventions designed to reduce sedentary behaviours in young people: a review of reviews. British Journal of Sports Medicine. 2014;48(3):182-6.	В
Birch LL, Davison KK. Family environmental factors influencing the developing behavioral controls of food intake and childhood overweight. Pediatric Clinics of North America. 2001;48(4):893-907.	В
Black MH, Zhou H, Takayanagi M, Jacobsen SJ, Koebnick C. Increased asthma risk and asthma-related health care complications associated with childhood obesity. American Journal of Epidemiology. 2013;178(7):1120-8.	В
Bleich SN, Segal J, Wu Y, Wilson R, Wang Y. Systematic review of community-based childhood obesity prevention studies. Pediatrics. 2013;132(1):e201-10.	D
Blue CL, Black DR. Synthesis of intervention research to modify physical activity and dietary behaviors. Research & Theory for Nursing Practice. 2005;19(1):25-61 37p.	С
Bluford DA, Sherry B, Scanlon KS. Interventions to prevent or treat obesity in preschool children: a review of evaluated programs. Obesity. 2007;15(6):1356-72.	Е
Blüher S, Till H, Kiess W. Bariatric surgery in extremely obese children and adolescents. Bundesgesundheitsblatt - Gesundheitsforschung - Gesundheitsschutz. 2011;54(5):577-83.	А
Boehm R, Stroh C, Blueher S, Till H, Wolff S, Manger T, et al. Bariatric surgery in children and adolescents. Zentralblatt für Chirurgie. 2009;134(6):532-6.	А
Bogle V, Sykes C. Psychological interventions in the treatment of childhood obesity: what we know and need to find out. Journal of Health Psychology. 2011;16(7):997-1014.	Е

16		
	Böhler T. Training programmes for the treatment of obesity in children and adolescents: Possibilities and limits from the viewpoint of social medicine. Ernahrungs Umschau, 2005:52(9):359-62+46.	А
	Boisvert JA, Harrell WA. Integrative Treatment of Pediatric Obesity: Psychological and Spiritual Considerations. Integrative Medicine: A	В
	Bond M, Wyatt K, Lloyd J, Taylor R. Systematic review of the effectiveness of weight management schemes for the under fives. Obesity Reviews. 2011;12(4):242-53.	Е
	Boon CS, Clydesdale FM. A review of childhood and adolescent obesity interventions. Critical Reviews in Food Science & Nutrition. 2005;45(7-8):511-25.	в
	Bourke M, Whittaker PJ, Verma A. Are dietary interventions effective at increasing fruit and vegetable consumption among overweight children? A systematic review. Journal of Epidemiology & Community Health. 2014;68(5):485-90 6p.	Е
	Brand T, Pischke CR, Steenbock B, Schoenbach J, Poettgen S, Samkange-Zeeb F, et al. What works in community-based interventions promoting physical activity and healthy eating? A review of reviews. International Journal of Environmental Research and Public Health. 2014;11(6):5866-88.	В
	Branscum P, Sharma M. A systematic analysis of childhood obesity prevention interventions targeting Hispanic children: lessons learned from the previous decade. Obesity Reviews. 2011;12(5):e151-8.	Е
	Branscum P, Sharma M. After-school based obesity prevention interventions: a comprehensive review of the literature. International Journal of Environmental Research & Public Health [Electronic Resource]. 2012;9(4):1438-57.	D
	Bray GA, Ryan DH. Drug treatment of obesity. Psychiatric Clinics of North America. 2011;34(4):871-80.	В
	Bray GA. Nutrition and obesity: prevention and treatment. Nutrition Metabolism & Cardiovascular Diseases. 1999;9(4 Suppl):21-32.	В
	Brezinka V. Behavioural treatment of childhood and adolescent obesity. Zeitschrift fur Klinische Psychologie. 1991;20(3):205-25.	А
	Brolin RE. Gastrointestinal surgery for severe obesity. Nutrition. 1996;12(6):403-4.	В
	Brown HE, Atkin AJ, Panter J, Corder K, Wong G, Chinapaw MJ, et al. Family-based interventions to increase physical activity in children: a meta-analysis and realist synthesis protocol. BMJ Open. 2014;4(8):e005439.	В
	Brown HE, Atkin AJ, Panter J, Wong G, Chinapaw MJM, van Sluijs EMF. Family-based interventions to increase physical activity in children: A systematic review, meta-analysis and realist synthesis. Obesity Reviews. 2016;17(4):345-60.	D
	Brown M. Is there evidence that providing home interventions for obese children ages seven to seventeen is an effective method for creating lifestyle changes? Journal of Occupational Therapy, Schools & Early Intervention. 2010;3(1):54-60 7p.	В
	Brown T, Smith S, Bhopal R, Kasim A, Summerbell CD. Diet and physical activity interventions to prevent or treat obesity in South Asian children and adults: A systematic review and meta-analysis. Obesity Facts. 2015;8:47.	В
	Brown T, Summerbell C. Systematic review of school-based interventions that focus on changing dietary intake and physical activity levels to prevent childhood obesity: an update to the obesity guidance produced by the National Institute for Health and Clinical Excellence. Obesity Reviews. 2009;10(1):110-41.	Е
	Brown WM, Sibille K, Phelps L, McFarlane KJ. Obesity in children and adolescents. Clinics in Family Practice. 2002;4(3):603-21.	В
	Bryant M, Ashton L, Brown J, Jebb S, Wright J, Roberts K, et al. Systematic review to identify and appraise outcome measures used to evaluate childhood obesity treatment interventions (CoOR): Evidence of purpose, application, validity, reliability and sensitivity. Health Technology Assessment. 2014;18(51):1-382.	E
н		

childhood obesity treatment interventions: the CoOP framework Pediatric Obesity 2014:0(6):e116.31	Е
Bryl W, Hoffmann K, Pupek-Musialik D. Obesity in the young population - Disease easy to recognize and difficult to intervention. Przeglad Kardiodiabetologinczny, 2009;4(4):170-4.	A
Bryl W. Obesity in children and adolescents - Intervention: Which, when and for whom? Family Medicine and Primary Care Review. 2009;11(3):555-9.	А
Budd GM, Hayman LL. Childhood obesity: determinants, prevention, and treatment. Journal of Cardiovascular Nursing. 2006;21(6):437-41.	В
Bungay H, Vella-Burrows T. The effects of participating in creative activities on the health and well-being of children and young people: a rapid review of the literature. Perspectives in Public Health. 2013;133(1):44-52.	В
Burke NL, Storch EA. A meta-analysis of weight status and anxiety in children and adolescents. Journal of Developmental and Behavioral Pediatrics. 2015;36(3):133-45.	В
Burrell S, Alexander S, Baur LA. The management of obesity in childhood and adolescence. Medicine Today. 2010;11(4):38-50.	В
Burrows A R. Prevention and treatment of obesity since childhood. A strategy to decrease the prevalence of non transmissible chronic diseases in the adut. Revista Medica de Chile. 2000;128(1):105-10.	А
Burrows TL, Khambalia AZ, Perry R, Carty D, Hendrie GA, Allman-Farinelli MA, et al. Great 'app-eal' but not there yet: A review of iPhone nutrition applications relevant to child weight management. Nutrition and Dietetics. 2015.	В
Butryn ML, Wadden TA, Rukstalis MR, Bishop-Gilyard C, Xanthopoulos MS, Louden D, et al. Maintenance of weight loss in adolescents: Current status and future directions. Journal of Obesity. 2010;2010.	В
Butryn ML, Wadden TA. Treatment of overweight in children and adolescents: does dieting increase the risk of eating disorders? International Journal of Eating Disorders. 2005;37(4):285-93.	Е
Buttitta M, Iliescu C, Rousseau A, Guerrien A. Quality of life in overweight and obese children and adolescents: a literature review. Quality of Life Research. 2014;23(4):1117-39.	В
Cai L, Wu Y, Wilson RF, Segal JB, Kim MT, Wang Y. Effect of childhood obesity prevention programs on blood pressure: a systematic review and meta-analysis. Circulation. 2014;129(18):1832-9.	D
Calañas-Continente A, Arrizabalaga JJ, Caixàs A, Cuatrecasas G, Díaz-Fernández MJ, García-Luna PP, et al. Strategies for treating overweight in adolescents and their families. Endocrinologia y Nutricion. 2008;55(SUPPL. 4):60-77.	А
Calderon KS, Yucha CB, Schaffer SD. Obesity-related cardiovascular risk factors: intervention recommendations to decrease adolescent obesity. Journal of Pediatric Nursing. 2005;20(1):3-14.	В
Campbell K, Crawford D. Family food environments as determinants of preschool-aged children's eating behaviours: implications for obesity prevention policy. A review. Australian Journal of Nutrition & Dietetics. 2001;58(1):19-25 7p.	В
Caprio S. Treating child obesity and associated medical conditions. Future of Children. 2006;16(1):209-24.	В
Cardoso LO, Engstrom EM, Leite IC, de Castro IRR. Socioeconomic, demographic, environmental and behavioral factors associated with overweight in adolescents: A systematic literature review. Revista Brasileira de Epidemiologia. 2009;12(3).	В
Carnell S, Wardle J. Appetitive traits and child obesity: measurement, origins and implications for intervention. Proceedings of the Nutrition Society. 2008;67(4):343-55.	В
Carr A. The effectiveness of family therapy and systemic interventions for child-focused problems. Journal of Family Therapy. 2009;31(1):3- 45.	В

Carr A. The evidence base for family therapy and systemic interventions for child-focused problems. Journal of Family Therapy. 2014;36(2):107-57.	В
Cassuto DA. Dietary advice for obese children. Cahiers de Nutrition et de Dietetique. 2001;36(2):135-41.	А
Caterson ID. Management strategies for weight control. Eating, exercise and behaviour. Drugs. 1990;39 Suppl 3:20-32.	В
Cauderay M, Cachat F. Analysis of exercise training for treating obesity in children and adolescents: A review of recent programs. Archaologie der Schweiz. 2015;38(3):36-42.	В
Cecil M. Managing and Preventing Obesity: Behavioural Factors and Dietary Interventions. Journal of Nutrition Education & Behavior. 2016;48(4):295.e3e3 1p.	В
Chandler NG. Parenting style as a moderator for parent-child food preoccupation. Dissertation Abstracts International: Section B: The Sciences and Engineering. 2010;71(4-B):2709.	В
Chang DI, Gertel-Rosenberg A, Drayton VL, Schmidt S, Angalet GB. A statewide strategy to battle child obesity in Delaware. Health Affairs. 2010;29(3):481-90.	в
Chaplais E, Naughton G, Thivel D, Courteix D, Greene D. Smartphone interventions for weight treatment and behavioral change in pediatric obesity: A systematic review. Telemedicine and e-Health. 2015;21(10):822-30.	Е
Chen X, Beydoun MA, Wang Y. Is sleep duration associated with childhood obesity? A systematic review and meta-analysis. Obesity. 2008;16(2):265-74.	В
Chesla CA. Do family interventions improve health? Journal of Family Nursing. 2010;16(4):355-77.	В
Childhood obesity treatment in France. Obesite. 2007;2(1):79-87.	А
Chilton R, Pearson M, Anderson R. Health promotion in schools: A scoping review of systematic reviews. Health Education. 2015;115(3-4):357-76.	В
Christie D, Channon S. The potential for motivational interviewing to improve outcomes in the management of diabetes and obesity in paediatric and adult populations: a clinical review. Diabetes, Obesity & Metabolism. 2014;16(5):381-7.	В
Chu NF. Strategies for prevention and treatment of obesity among children in Taiwan. Research in Sports Medicine. 2010;18(1):37-48.	В
Ciampa PJ, Kumar D, Barkin SL, Sanders LM, Yin HS, Perrin EM, et al. Interventions aimed at decreasing obesity in children younger than 2 years: a systematic review. Archives of Pediatrics & Adolescent Medicine. 2010;164(12):1098-104.	D
Ciampa PJ, White RO, Perrin EM, Yin HS, Sanders LM, Gayle EA, et al. The association of acculturation and health literacy, numeracy and health-related skills in Spanish-speaking caregivers of young children. Journal of Immigrant & Minority Health. 2013;15(3):492-8.	В
Cislak A, Safron M, Pratt M, Gaspar T, Luszczynska A. Family-related predictors of body weight and weight-related behaviours among children and adolescents: a systematic umbrella review. Child: Care, Health & Development. 2012;38(3):321-31.	В
Clark HR, Goyder E, Bissell P, Blank L, Peters J. How do parents' child-feeding behaviours influence child weight? Implications for childhood obesity policy. Journal of Public Health. 2007;29(2):132-41.	В
Clark NM, Lachance L, Benedict MB, Little R, Leo H, Awad DF, et al. The extent and patterns of multiple chronic conditions in low-income children. Clinical Pediatrics. 2015;54(4):353-8.	В
Clemmens D, Hayman LL. Increasing activity to reduce obesity in adolescent girls: a research review. JOGNN - Journal of Obstetric, Gynecologic, & Neonatal Nursing. 2004;33(6):801-8.	E

Cliff DP, Okely AD, Morgan PJ, Jones RA, Steele JR. The impact of child and adolescent obesity treatment interventions on physical activity: a systematic review. Obesity Reviews. 2010;11(7):516-30.	В
Cochrane Review Brief: Lifestyle interventions to improve school achievement in overweight or obese children and adolescents. Online Journal of Issues in Nursing. 2015;20(3):1- p.	Е
Coelho R, Bragança G. Complications and treatment of obesity in childhood. Nascer e Crescer. 2005;14(2):89-91.	Α
Cohen GM, Irby MB, Boles K, Jordan C, Skelton JA. Telemedicine and paediatric obesity treatment: Review of the literature and lessons learnt. Clinical Obesity. 2012;2(3-4):103-11.	Е
Colborn D, Fitzpatrick KK. Family-based therapy for adolescent weight loss surgery. Family therapy for adolescent eating and weight disorders: New applications. 2015:277-304.	В
Cole K, Waldrop J, D'Auria J, Garner H. An integrative research review: effective school-based childhood overweight interventions. Journal for Specialists in Pediatric Nursing: JSPN. 2006;11(3):166-77.	В
Collins C, Leahy J. Best practice dietetic management of overweight and obese children and adolescents. JBI Database of Systematic Reviews and Implementation Reports. 2004;2(SUPPL.6):S1-S8.	В
Collins CE, Burrows TL, Bray J, Asher R, Young M, Morgan PJ. Effectiveness of parent-centred interventions for the prevention and treatment of childhood overweight and obesity in community settings: A systematic review. JBI Database of Systematic Reviews and Implementation Reports. 2013;11(9):180-257.	F
Collins CE, Warren J, Neve M, McCoy P, Stokes BJ. Measuring effectiveness of dietetic interventions in child obesity: a systematic review of randomized trials. Archives of Pediatrics & Adolescent Medicine. 2006;160(9):906-22.	Е
Colquitt Jill L, Loveman E, O'Malley C, Azevedo Liane B, Mead E, Al-Khudairy L, et al. Diet, physical activity, and behavioural interventions for the treatment of overweight or obesity in preschool children up to the age of 6 years. Cochrane Database of Systematic Reviews [Internet]. 2016 [cited CM E]; (3). Available from: http://onlinelibrary.wiley.com/doi/10.1002/14651858.CD012105/abstract	E
Copperman N, Jacobson MS. Medical nutrition therapy of overweight adolescents. Adolescent Medicine State of the Art Reviews. 2003;14(1):11-21.	В
Corrales-Yauckoes KM, Higgins LA, Laffel L. Nutritional management of the overweight child with type 2 diabetes. Pediatric Annals. 2005;34(9):701-9.	В
Crocker MK, Yanovski JA. Pediatric obesity: etiology and treatment. Endocrinology & Metabolism Clinics of North America. 2009;38(3):525- 48.	В
Crocker MK, Yanovski JA. Pediatric obesity: etiology and treatment. Pediatric Clinics of North America. 2011;58(5):1217-40, xi.	В
Curtis P, Stapleton H, James A. Intergenerational relations and the family food environment in families with a child with obesity. Annals of Human Biology. 2011;38(4):429-37.	В
Dahlquist G, Bergström E, Gebre-Medhin M, Häger A, Kihlstedt-Odeen AC, Marcus C. What can we do for overweight children and adolescents? The prognosis is mostly good; attitudes often dubious. Lakartidningen. 1995;92(34):3022-5.	А
Dalmau Serra J, Alonso Franch M, Gómez López L, Martínez Costa C, Sierra Salinas C, Suárez Cortina L. Childhood obesity. Recommendations of the Nutrition Committee of the Spanish Association of Pediatrics. Part II. Diagnosis. Comorbidities. Treatment. Anales de Pediatria. 2007;66(3):294-304.	А
Dalton WT, 3rd, Kitzmann KM. Broadening parental involvement in family-based interventions for pediatric overweight: implications from family systems and child health. Family & Community Health. 2008;31(4):259-68.	В

Daniel Chapman C, Benedict C, Jane Brooks S, Birgir Schiöth H. Lifestyle determinants of the drive to eat: a meta-analysis. American Jo of Clinical Nutrition. 2012;96(3):492-7 6p.	urnal C
Daniels L, Magarey A. Obesity interventions in the very young: Rationale and evidence. Obesity Reviews. 2011;12:25-6.	В
Daniels SR, Arnett DK, Eckel RH, Gidding SS, Hayman LL, Kumanyika S, et al. Overweight in children and adolescents: pathophysiology consequences, prevention, and treatment. Circulation. 2005;111(15):1999-2012.	/, В
Daniels SR, Jacobson MS, McCrindle BW, Eckel RH, Sanner BM. American Heart Association Childhood Obesity Research Summit Rep Circulation. 2009;119(15):e489-517.	ort. B
Daniels SR, Jacobson MS, McCrindle BW, Eckel RH, Sanner BM. American Heart Association Childhood Obesity Research Summit: executive summary. Circulation. 2009;119(15):2114-23.	В
Daniels SR, Pratt CA, Hayman LL. Reduction of risk for cardiovascular disease in children and adolescents. Circulation. 2011;124(15):16 86.	⁷³⁻ В
Danielsen YS, Skjakodegard HF, Kolko RP, Wilfey DE, Juliusson PB. Family-based behavioral treatment of obesity-the FABO-study. Obe Facts. 2015;8:234.	^{esity} B
Davey RC. The obesity epidemic: too much food for thought?including commentary by Stanton R. British Journal of Sports Medicine. 2004;38(3):360-3 4p.	В
Davies MA, Terhorst L, Nakonechny AJ, Skukla N, El Saadawi G. The development and effectiveness of a health information website designed to improve parents' self-efficacy in managing risk for obesity in preschoolers. Journal for Specialists in Pediatric Nursing: JSPN. 2014;19(4):316-30.	. В
Davin SA, Taylor NM. Comprehensive review of obesity and psychological considerations for treatment. Psychology Health & Medicine. 2009;14(6):716-25.	В
Davis SP, Northington L, Kolar K. Cultural considerations for treatment of childhood obesity. Journal of Cultural Diversity. 2000;7(4):128-3	32. B
De Bourdeaudhuij I, Van Cauwenberghe E, Spittaels H, Oppert JM, Rostami C, Brug J, et al. School-based interventions promoting both physical activity and healthy eating in Europe: a systematic review within the HOPE project. Obesity Reviews. 2011;12(3):205-16.	D
De Miguel-Etayo P, Bueno G, Garagorri JM, Moreno LA. Interventions for treating obesity in children. World Review of Nutrition & Dietetion 2013;108:98-106.	cs. B
de Miguel-Etayo P, Moreno LA, Iglesia I, Bel-Serrat S, Mouratidou T, Garagorri JM. Body composition changes during interventions to tre overweight and obesity in children and adolescents; a descriptive review. Nutricion Hospitalaria. 2013;28(1):52-62.	eat B
De Santis-Moniaci D, Altshuler L. Comprehensive behavioral treatment of overweight and the pediatric practice. Pediatric Annals. 2007;36(2):102-8.	В
De Vries U, Koletzko B, Petermann F. Obesity in childhood and adolescence: Parent-based interventions. Monatsschrift fur Kinderheilkur 2008;156(2):177-86.	nde. A
De Wals P, Dumas N, Migan MG, Bisset S. Evaluation of the impact of interventions aiming to promote healthy behaviors and weight in young people in Canada: A review. Obesity Facts. 2014;7:155.	В
Deckelbaum RJ, Williams CL. Childhood obesity: the health issue. Obesity Research. 2001;9 Suppl 4:239S-43S.	В
del Valle Arancón Abad M. Effective dietary interventions for the treatment of the overweight and the child obesity. Enfermería clínica. 2009;19(4):235-7.	A

Delahanty LM, Nathan DM. Implications of the Diabetes Prevention Program and Look AHEAD clinical trials for lifestyle interventions. Journal	B
of the American Dietetic Association. 2008;108(1):S66-72 1p.	
Delgado-Noguera M, Tort S, Bonfill X, Gich I, Alonso-Coello P. Quality assessment of clinical practice guidelines for the prevention and treatment of childhood overweight and obesity. European Journal of Pediatrics. 2009;168(7):789-99.	В
Dellert JC, Johnson P. Interventions with children and parents to improve physical activity and body mass index: A meta-analysis. American Journal of Health Promotion. 2014;28(4):259-67.	Е
DeMattia L, Lemont L, Meurer L. Do interventions to limit sedentary behaviours change behaviour and reduce childhood obesity? A critical review of the literature. Obesity Reviews. 2007;8(1):69-81.	Е
Desjardins E, Schwartz AL. Collaborating to combat childhood obesity. Health Affairs. 2007;26(2):567-71.	В
DeWalt DA, Hink A. Health literacy and child health outcomes: A systematic review of the literature. Pediatrics. 2009;124(SUPPL. 3):S265-S74.	D
Dhuper S, Buddhe S, Patel S. Managing cardiovascular risk in overweight children and adolescents. Pediatric Drugs. 2013;15(3):181-90.	В
Diamond Jr FB. Newer aspects of the pathophysiology, evaluation, and management of obesity in childhood. Current Opinion in Pediatrics. 1998;10(4):422-7.	В
Dietz WH. Implications of the energy gap for the prevention and treatment of childhood obesity. American Journal of Preventive Medicine. 2012;42(5):560-1.	В
Dietz WH. Therapeutic strategies in childhood obesity. Hormone Research. 1993;39 Suppl 3:86-90.	В
Dixon MO. Elementary school personnel's perceptions of and recommendations for managing child obesity: A naturalistic study. Dissertation Abstracts International Section A: Humanities and Social Sciences. 2012;73(3-A):892.	В
Domínguez-Vásquez P, Olivares S, Santos JL. Eating behavior and childhood obesity: family influences. Archivos Latinoamericanos de Nutricion. 2008;58(3):249-55.	А
Dowell KA, Ogles BM. The effects of parent participation on child psychotherapy outcome: a meta-analytic review. Journal of Clinical Child & Adolescent Psychology. 2010;39(2):151-62.	D
Dowell KA. The effects of parent participation on child psychotherapy outcome: A meta-analytic review. Dissertation Abstracts International: Section B: The Sciences and Engineering. 2005;66(4-B):2303.	В
Driessen CE, Cameron AJ, Thornton LE, Lai SK, Barnett LM. Effect of changes to the school food environment on eating behaviours and/or body weight in children: a systematic review. Obesity Reviews. 2014;15(12):968-82.	Е
Driffield A. Are weight loss intervention programmes for children and adolescents effective in the long term? Hormone Research in Paediatrics. 2012;78:276.	В
Dubern B. Management of childhood obesity. Presse Medicale. 2010;39(9):960-8.	А
Dubnov-Raz G, Berry EM, Constantini NW. Childhood obesityassessment, prevention and treatment. Harefuah. 2009;148(12):831-"6, 54".	Α
Dunton GF, Kaplan J, Wolch J, Jerrett M, Reynolds KD. Physical environmental correlates of childhood obesity: a systematic review. Obesity Reviews. 2009;10(4):393-402.	D
Durá Travé T, Sánchez-Valverde Visus F. Childhood obesity: A question of education at the individual, family or social level? Acta Pediatrica Espanola. 2005;63(5):204-7.	А

Eaglehouse YL, Kramer MK, Rockette-Wagner B, Arena VC, Kriska AM. Evaluation of physical activity reporting in community Diabetes Prevention Program lifestyle intervention efforts: A systematic review, Preventive Medicine, 2015;77:191-9.9p	С
Eberding A, Lemme M. Obesity education for children and adolescents: Familial influence - Tasks for parents. Ernahrungs Umschau.	А
Edwards NM, Schwarzenberg SJ. Designing and implementing an effective pediatric weight management program. Reviews in Endocrine and Metabolic Disorders. 2009;10(3):197-203.	В
Effective dietary interventions for overweight and obese children. Nursing standard (Royal College of Nursing (Great Britain) : 1987). 2008;22(18):35-40.	В
Effectiveness of intervention programs in schools to reduce health risk factors in adolescents: a systematic review. Brazilian Journal of Kineanthropometry & Human Performance. 2015;17(4):485-95 11p.	D
Eiben G, Mårild S. [A healthy diet: key factor in efforts to tackle child obesity]. Läkartidningen. 2014;111(11):489-92.	А
Eisenberg CM, Sanchez-Romero LM, Rivera-Dommarco JA, Holub CK, Arredondo EM, Elder JP, et al. Interventions to increase physical activity and healthy eating among overweight and obese children in Mexico. Salud Publica de Mexico. 2013;55 Suppl 3:441-6.	Е
Elder JP, Holub CK, Arredondo E, Barquera S, Sanchez LM, Lobelo F. Obesity interventions among U.S. latinos and latin Americans: A systematic literature review. Obesity. 2011;19:S123.	В
Eliakim A, Nemet D, Wolach B. Physical exercise as therapy for obesity in children and adolescentsthe effort pays off. Harefuah. 1999;136(5):381-5.	А
Eneli IU, Crum PA, Tylka TL. The trust model: a different feeding paradigm for managing childhood obesity. Obesity. 2008;16(10):2197-204.	В
Epstein LH, Coleman KJ, Myers MD. Exercise in treating obesity in children and adolescents. Medicine & Science in Sports & Exercise. 1996;28(4):428-35 8p.	Е
Epstein LH, Myers MD, Raynor HA, Saelens BE. Treatment of pediatric obesity. Pediatrics. 1998;101(3 Pt 2):554-70.	В
Epstein LH. Behavioral treatment of obesity. Neurobiology of food and fluid intake. 1990:61-73.	В
Epstein LH. Exercise and obesity in children. Journal of Applied Sport Psychology. 1992;4(2):120-33.	В
Espinoza N, Ayala GX, Arredondo EM. Interventions targeting childhood obesity involving parents. Childhood Obesity Prevention: International Research, Controversies and Interventions2011.	В
Evans CEL, Albar SA, Vargas-Garcia EJ, Xu F. School-Based Interventions to Reduce Obesity Risk in Children in High- and Middle-Income Countries. Advances in Food and Nutrition Research2015.	В
Evans EW, Sonneville KR. BMI report cards: will they pass or fail in the fight against pediatric obesity? Current Opinion in Pediatrics. 2009;21(4):431-6.	В
Faith MS, Scanlon KS, Birch LL, Francis LA, Sherry B. Parent-child feeding strategies and their relationships to child eating and weight status. Obesity Research. 2004;12(11):1711-22.	В
Faith MS, Van Horn L, Appel LJ, Burke LE, Carson JA, Franch HA, et al. Evaluating parents and adult caregivers as "agents of change" for treating obese children: evidence for parent behavior change strategies and research gaps: a scientific statement from the American Heart Association. Circulation. 2012;125(9):1186-207.	В
Faith MS, Wrotniak BH. Intervention: Strategies designed to affect activity level, intake patterns, and behavior. Obesity in youth: Causes, consequences, and cures. 2009:159-81.	В
	Eaglehouse YL, Kramer MK, Rockette-Wagner B, Arena VC, Kriska AM. Evaluation of physical activity reporting in community Diabetes Prevention Program lifestyle intervention efforts: A systematic review. Preventive Medicine. 2015;77:191-9 9p. Eberding A, Lemme M. Obesity education for children and adolescents: Familial influence - Tasks for parents. Ernahrungs Umschau. 2006;53(1):25-9. Edwards NM, Schwarzenberg SJ. Designing and implementing an effective pediatric weight management program. Reviews in Endocrine and Metabolic Disorders. 2009;10(3):197-203. Effective diretary interventions for overweight and obese children. Nursing standard (Royal College of Nursing (Great Britain) : 1987). 2008;22(18):35-40. Effective diretary intervention programs in schools to reduce health risk factors in adolescents: a systematic review. Brazilian Journal of Kineanthropometry & Human Performance. 2015;17(4):485-95 11p. Eiben G, Märild S, Ia healthy deit Key factor in efforts to tackle child obesity). Läkartidningen. 2014;111(11):489-92. Eisenberg CM, Sanchez-Romero LM, Rivera-Dommarco JA, Holub CK, Arredondo EM, Elder JP, et al. Interventions to increase physical activity and healthy eating among overweight and obese children in Mexico. Salud Publica de Mexico. 2013;55 Suppl 3:441-6. Elder JP, Holub CK, Arredondo E, Barquera S, Sanchez LM, Lobelo F. Obesity interventions among US. latinos and latin Americans: A systematic literature review. Obesity. 2011;19:5123. Elakim A, Nemet D, Wolach B. Physical exercise a therapy for obesity in children and adolescentsMedione & Science in Sports & Exercise. 1996;28(4):428-35

Farnesi BC, Ball GD, Newton AS. Family-health professional relations in pediatric weight management: an integrative review. Pediatric Obesity. 2012;7(3):175-86.	В
Faus AL, Leibowitz KL. Predictors of Attrition From a Behavior Change-Based Pediatric Lifestyle Changes Program for Overweight/Obese Youth, Clinical Pediatrics, 2015;54(7):686-9.	В
Fenton K, Marvicsin D, Danford CA. An Integrative Review of Sleep Interventions and Related Clinical Implications for Obesity Treatment in Children. Journal of Pediatric Nursing. 2014;29(6):503-10 8p.	Е
Fiese BH, Hammons A, Grigsby-Toussaint D. Family mealtimes: A contextual approach to understanding childhood obesity. Economics and Human Biology. 2012;10(4):365-74.	В
Fiese BH. Family mealtime conversations in context. Journal of Nutrition Education and Behavior. 2012;44(1):e1.	В
Fisberg M, Baur L, Chen W, Hoppin A, Koletzko B, Lau D, et al. Obesity in children and adolescents: Working Group report of the second World Congress of Pediatric Gastroenterology, Hepatology, and Nutrition. Journal of pediatric gastroenterology and nutrition. 2004;39 Suppl 2:S678-87.	В
Fitch A, Bock J. Effective dietary therapies for pediatric obesity treatment. Reviews in Endocrine & Metabolic Disorders. 2009;10(3):231-6.	В
Fletcher JM, Frisvold D, Tefft N. Taxing soft drinks and restricting access to vending machines to curb child obesity. Health Affairs. 2010;29(5):1059-66.	В
Flodmark CE. Management of the obese child using psychological-based treatments. Acta Paediatrica Supplement. 2005;94(448):14-22.	В
Flodmark CE. Psychotherapy as an Intervention for Child Obesity. Global Perspectives on Childhood Obesity2011. p. 401-10.	В
Floriani V, Kennedy C. Promotion of physical activity in primary care for obesity treatment/prevention in children. Current Opinion in Pediatrics. 2007;19(1):99-103.	В
Foster BA, Farragher J, Parker P, Sosa ET. Treatment Interventions for Early Childhood Obesity: A Systematic Review. Academic Pediatrics. 2015;15(4):353-61.	Е
Fowler-Brown A, Kahwati LC. Prevention and treatment of overweight in children and adolescents. American Family Physician. 2004;69(11):2591-8.	Е
Fox S, Meinen A, Pesik M, Landis M, Remington PL. Competitive food initiatives in schools and overweight in children: a review of the evidence. WMJ. 2005;104(5):38-43.	В
Frankenbach T. Overweight in children, adolescents and adults. Obesity from the viewpoint of nutrition medicine. Kinderkrankenschwester : Organ der Sektion Kinderkrankenpflege / Deutsche Gesellschaft für Sozialpädiatrie und Deutsche Gesellschaft für Kinderheilkunde. 2005;24(8):323-31.	A
Fransen GA, Koster M, Molleman GR. Towards an integrated community approach of overweight prevention: the experiences of practitioners and policymakers. Family Practice. 2012;29 Suppl 1:i104-i9.	В
Fraser J, Skouteris H, McCabe M, Ricciardelli LA, Milgrom J, Baur LA. Paternal influences on children's weight gain: A systematic review. Fathering. 2011;9(3):257-67.	В
Freedman MR, Stern JS. The role of optimal healing environments in the management of childhood obesity. Journal of Alternative & Complementary Medicine. 2004;10 Suppl 1:S231-44.	В
Friedrich RR, Schuch I, Wagner MB. Effect of interventions on the body mass index of school-age students. Revista de Saude Publica. 2012;46(3):551-60.	Е

Fruh SM, Fulkerson JA, Mulekar MS, Kendrick LAJ, Clanton C. The surprising benefits of the family meal. Journal for Nurse Practitioners. 2011;7(1):18-22 5p.	В
Fry JP, Neff RA. Periodic prompts and reminders in health promotion and health behavior interventions: systematic review. Journal of Medical Internet Research, 2009;11(2):e16-e 1p.	С
Fulkerson JA, Larson N, Horning M, Neumark-Sztainer D. A review of associations between family or shared meal frequency and dietary and weight status outcomes across the lifespan. Journal of Nutrition Education & Behavior. 2014;46(1):2-19.	В
Fulton JE, McGuire MT, Caspersen CJ, Dietz WH. Interventions for weight loss and weight gain prevention among youth: current issues. Sports Medicine. 2001;31(3):153-65.	В
Gage D. Weight loss/maintenance as an effective tool for controlling type 2 diabetes: novel methodology to sustain weight reduction. Diabetes/Metabolism Research & Reviews. 2012;28(3):214-8 5p.	В
Gance-Cleveland B, Harris M, Ward-Begnoche W. Working with schools to connect with families of overweight children. Journal for Specialists in Pediatric Nursing: JSPN. 2005;10(1):40-3.	В
Gao Y, Griffiths S, Chan EY. Community-based interventions to reduce overweight and obesity in China: a systematic review of the Chinese and English literature. Journal of Public Health. 2008;30(4):436-48.	Е
Gardner CG, Hendrie GA, Brindal E, Corsini N, Klose D, Golley RK. Combined home and school obesity prevention interventions for children: What behaviour change strategies and intervention characteristics are associated with effectiveness? Obesity Research and Clinical Practice. 2011;5:S44.	в
Gerards SM, Sleddens EF, Dagnelie PC, de Vries NK, Kremers SP. Interventions addressing general parenting to prevent or treat childhood obesity. International Journal of Pediatric Obesity. 2011;6(2-2):e28-45.	D
Gibson EL, Kreichauf S, Wildgruber A, Vogele C, Summerbell CD, Nixon C, et al. A narrative review of psychological and educational strategies applied to young children's eating behaviours aimed at reducing obesity risk. Obesity Reviews. 2012;13 Suppl 1:85-95.	В
Gibson LJ, Peto J, Warren JM, dos Santos Silva I. Lack of evidence on diets for obesity for children: A systematic review. International Journal of Epidemiology. 2006;35(6):1544-52.	E
Gicevic S, Aftosmes-Tobio A, Ganter C, Simon C, Newlan S, Yu N, et al. Parenting and childhood obesity research: A quantitative content analysis over the past 5 years. FASEB Journal. 2015;29 (1 Meeting Abstracts).	В
Gilles A, Cassano M, Shepherd EJ, Higgins D, Hecker JE, Nangle DW. Comparing active pediatric obesity treatments using meta-analysis. Journal of Clinical Child & Adolescent Psychology. 2008;37(4):886-92.	E
Glenny AM, O'Meara S, Melville A, Sheldon TA, Wilson C. The treatment and prevention of obesity: a systematic review of the literature. International Journal of Obesity & Related Metabolic Disorders: Journal of the International Association for the Study of Obesity. 1997;21(9):715-37.	Е
Golan M, Crow S. Parents are key players in the prevention and treatment of weight-related problems. Nutrition Reviews. 2004;62(1):39-50.	В
Golan M. Parents as agents of change in childhood obesityfrom research to practice. International Journal of Pediatric Obesity. 2006;1(2):66-76.	В
Goldbloom R, Battista RN, Anderson G, Beaulieu MD, Elford RW, Feightner JW, et al. Periodic health examination, 1994 update: 1. Obesity in childhood. Cmaj. 1994;150(6):871-9.	В
Golley RK, Hendrie GA, Slater A, Corsini N. Interventions that involve parents to improve children's weight-related nutrition intake and activity patterns - what nutrition and activity targets and behaviour change techniques are associated with intervention effectiveness? Obesity Reviews. 2011;12(2):114-30.	D

	Gómez S, Marcos A. A comprehensive approach to treating adolescent obesity. Revista de medicina de la Universidad de Navarra. 2006;50(4):23-5.	А
	Gonzalez-Suarez C, Worley A, Grimmer-Somers K, Dones V. School-based interventions on childhood obesity: a meta-analysis. American Journal of Preventive Medicine. 2009;37(5):418-27.	Е
	Gottesman MM. Healthy Eating and Activity Together (HEAT): weapons against obesity. Journal of Pediatric Health Care. 2003;17(4):210-5.	В
	Gow ML, Ho M, Burrows TL, Baur LA, Stewart L, Hutchesson MJ, et al. Impact of dietary macronutrient distribution on BMI and cardiometabolic outcomes in overweight and obese children and adolescents: A systematic review. Nutrition Reviews. 2014;72(7):453-70.	Е
	Graf C. Preventing and treating obesity in pediatrics through physical activity. EPMA Journal. 2011;2(3):261-70.	В
	Griffith JR. Assessing childhood obesity programs in low-socioeconomic and diverse communities. Journal of the National Medical Association. 2009;101(5):421-9.	В
	Grimes-Robison C, Evans RR. Benefits and barriers to medically supervised pediatric weight-management programs. Journal of Child Health Care. 2008;12(4):329-43.	В
	Gruber KJ, Haldeman LA. Using the family to combat childhood and adult obesity. Preventing Chronic Disease. 2009;6(3):A106.	В
	Guan RY, Yi CL. Relationship between child obesity and parental breeding behaviors. Chinese Journal of Clinical Rehabilitation. 2006;10(48):160-2.	А
	Guedes De Vasconcelos F, Bernardo G, Valerio dos Santos M, Ibarra Ozcariz S, Das Neves J, Gonzalez D. A systematic review of school- based interventions for obesity reduction in children and adolescents. Annals of Nutrition and Metabolism. 2011;58:402.	В
	Gunner KB, Atkinson PM, Nichols J, Eissa MA. Health promotion strategies to encourage physical activity in infants, toddlers, and preschoolers. Journal of Pediatric Health Care. 2005;19(4):253-8.	В
	Haas TA, Jacobson MS. Childhood physical activity: Review of related factors and suggestions for effective counseling. Children's Hospital Quarterly. 1992;4(1):7-13.	В
	Hackman CL, Knowlden AP. Theory of reasoned action and theory of planned behavior-based dietary interventions in adolescents and young adults: A systematic review. Adolescent Health, Medicine and Therapeutics. 2014;5:101-14.	E
	Haddock CK, Shadish WR, Klesges RC, Stein RJ. Treatments for childhood and adolescent obesity. Annals of Behavioral Medicine. 1994;16(3):235-44.	Е
	Haemer MA, Grow HM, Fernandez C, Lukasiewicz GJ, Rhodes ET, Shaffer LA, et al. Addressing prediabetes in childhood obesity treatment programs: support from research and current practice. Childhood Obesity. 2014;10(4):292-303.	В
	Haemer MA, Ranade D, Baron AE, Krebs NF. A clinical model of obesity treatment is more effective in preschoolers and Spanish speaking families. Obesity. 2013;21(5):1004-12.	В
	Haire-Joshu D, Nanney MS. Prevention of overweight and obesity in children: influences on the food environment. Diabetes Educator. 2002;28(3):415-23.	В
ļ	Hall CA, Jacques PF. Weighing in on the issues of type 2 diabetes in children: a review. Pediatric Physical Therapy. 2007;19(3):211-6.	В
	Halliday JA, Palma CL, Mellor D, Green J, Renzaho AM. The relationship between family functioning and child and adolescent overweight and obesity: a systematic review. International Journal of Obesity. 2014;38(4):480-93.	В
	Hamel LM, Robbins LB, Wilbur J. Computer- and web-based interventions to increase preadolescent and adolescent physical activity: a systematic review. Journal of Advanced Nursing. 2011;67(2):251-68.	Е

Hamel LM, Robbins LB. Computer- and web-based interventions to promote healthy eating among children and adolescents: A systematic review. Journal of Advanced Nursing. 2013:69(1):16-30.	Е
Hannon TS, Arslanian SA. Obesity and type 2 diabetes mellitus in adolescents: What is new? Current Opinion in Endocrinology and Diabetes. 2006;13(2):111-8.	В
Hartman MA, Hosper K, Stronks K. Targeting physical activity and nutrition interventions towards mothers with young children: a review on components that contribute to attendance and effectiveness. Public Health Nutrition. 2011;14(8):1364-81.	F
Haschke F, Ziegler EE, Grathwohl D. Fast growth of infants of overweight mothers: Can it be slowed down? Annals of Nutrition and Metabolism. 2014;64(SUPPL.1):19-24.	В
Haslam DW. Managing the obese child. Practitioner. 2003;247(1653):924-9, 32.	В
Hassink S, Datto GA. Recognition of noncardiac comorbidities and treatment of overweight children and adolescents. Pediatric Annals. 2006;35(11):827-34.	В
Hassink SG. Childhood obesity: evaluation, treatment, and relationship to disease. Delaware medical journal. 2002;74(2):77-83.	В
Hawkins SS, Law C. Treatment and prevention of obesity - Are there critical periods for intervention? [3]. International Journal of Epidemiology. 2006;35(4):1101.	В
Hayes JF, Altman M, Coppock JH, Wilfley DE, Goldschmidt AB. Recent Updates on the Efficacy of Group-Based Treatments for Pediatric Obesity. Current Cardiovascular Risk Reports. 2015;9(4).	Е
Haynos AF, O'Donohue WT. Universal childhood and adolescent obesity prevention programs: review and critical analysis. Clinical Psychology Review. 2012;32(5):383-99.	D
Hazbun OM, Azcona C, Alfredo Martinez J, Marti A. Management of overweight and obesity in adolescents: an integral lifestyle approach. Actividad Dietetica. 2009;13(4):153-60.	А
Hearn L, Miller M, Cross D. Engaging primary health care providers in the promotion of healthy weight among young children: Barriers and enablers for policy and management. Australian Journal of Primary Health. 2007;13(2):66-79.	D
Hendrie GA, Brindal E, Corsini N, Gardner C, Baird D, Golley RK. Combined home and school obesity prevention interventions for children: what behavior change strategies and intervention characteristics are associated with effectiveness? Health Education & Behavior. 2012;39(2):159-71.	D
Henson KE. Childhood obesity in the United States of America with a special focus on Native American reservation dwelling youths: The problem, the treatments, and how psychology can help. Dissertation Abstracts International: Section B: The Sciences and Engineering. 2005;66(1-B):554.	В
Hernández-Álvarez ED, Valero-Bernal MV, Mancera-Soto EM. Efficacy of the prescription of physical activity in the obese child population. Revista de Salud Publica. 2015;17(1):120-31.	Е
Hesketh KD, Campbell KJ. Interventions to prevent obesity in 0-5 year olds: an updated systematic review of the literature. Obesity. 2010;18 Suppl 1:S27-35.	D
Hill JC, Smith PC, Meadows SE. Clinical inquiries. What are the most effective interventions to reduce childhood obesity? Journal of Family Practice. 2002;51(10):891.	В
Hillier F, Pedley C, Summerbell C. Evidence base for primary prevention of obesity in children and adolescents. Bundesgesundheitsblatt, Gesundheitsforschung, Gesundheitsschutz. 2011;54(3):259-64.	В

-		
ſ	Hillier-Brown FC, Bambra CL, Cairns JM, Kasim A, Moore HJ, Summerbell CD. A systematic review of the effectiveness of individual,	
	community and societal level interventions at reducing socioeconomic inequalities in obesity amongst children. BMC Public Health.	Е
	2014;14:834.	
	Hingle MD, O'Connor TM, Dave JM, Baranowski T. Parental involvement in interventions to improve child dietary intake: a systematic review.	П
	Preventive Medicine. 2010;51(2):103-11.	D
	Ho M, Garnett SP, Baur L, Burrows T, Stewart L, Neve M, et al. Effectiveness of lifestyle interventions in child obesity: systematic review with	F
	meta-analysis. Pediatrics. 2012;130(6):e1647-71.	
	Ho M, Garnett SP, Baur LA, Burrows T, Stewart L, Neve M, et al. Impact of dietary and exercise interventions onweight change and metabolic	
	outcomes in obese children and adolescents a systematic review and meta-analysis of randomized trials. JAMA Pediatrics. 2013;167(8):759-	E
	68.	
	Ho M, Jensen ME, Burrows T, Neve M, Garnett SP, Baur L, et al. Best practice dietetic management of overweight and obese children and	F
	adolescents: A 2010 update of a systematic review. JBI Library of Systematic Reviews. 2013;11(10):190-293.	
	Hoelscher DM, Kirk S, Ritchie L, Cunningham-Sabo L, Academy Positions C. Position of the Academy of Nutrition and Dietetics: interventions	F
	for the prevention and treatment of pediatric overweight and obesity. Journal of the Academy of Nutrition & Dietetics. 2013;113(10):1375-94.	
	Hofmeister M. Weight loss in children and adolescents: A systematic review and evaluation of conservative, non-pharmacological obesity	в
	treatment programs. Deutsches Arzteblatt International. 2015;112(17):297.	
	Hollingworth W, Hawkins J, Lawlor DA, Brown M, Marsh T, Kipping RR. Economic evaluation of lifestyle interventions to treat overweight or	в
	obesity in children. International Journal of Obesity. 2012;36(4):559-66.	
	Holt J, Warren L, Wallace R. What behavioral interventions are safe and effective for treating obesity? Journal of Family Practice.	В
	2006;55(6):536-8.	
	Holt P. Challenges and strategies: weight management in type 2 diabetes. British Journal of Community Nursing. 2006;11(9):376-80.	В
ſ	Holub CK, Elder JP, Arredondo EM, Barquera S, Eisenberg CM, Sanchez Romero LM, et al. Obesity control in Latin American and U.S.	E
	Latinos: a systematic review. American Journal of Preventive Medicine. 2013;44(5):529-37.	
	Huang TTK, Story MT. A journey just started: Renewing efforts to address childhood obesity. Obesity. 2010;18(SUPPL. 1):S1-S3.	В
	Hughes AR. Reilly JJ. Disease management programs targeting obesity in children: Setting the scene for wellness in the future. Disease	_
	Management and Health Outcomes. 2008;16(4):255-66.	В
	Hughes SO, Frankel LA, Beltran A, Hodges E, Hoerr S, Lumeng J, et al. Food parenting measurement issues: Working group consensus	Б
	report. Childhood Obesity. 2013;9(SUPPL.1):S95-S102.	В
	Hurley KM, Cross MB, Hughes SO. A systematic review of responsive feeding and child obesity in high-income countries. Journal of Nutrition.	
	2011;141(3):495-501.	В
	Hwalla N. Matter related to the research article published in Obesity Reviews (2009; 9: 389-399), entitled 'Obesity in Mediterranean region	_
	(1997-2007): a systematic review'. Obesity reviews : an official journal of the International Association for the Study of Obesity. 2010;11(3).	В
Ī	Hyder ML, O'Byrne KK, Poston WSC, Foreyt JP. Behavior modification in the treatment of obesity. Clinics in Family Practice. 2002;4(2):415-	Р
l	26.	В
ſ	Ickes MJ, Sharma M. A review of childhood obesity prevention interventions targeting African American children. Vulnerable Children and	Г
I	Youth Studies. 2011;6(2):103-23.	
-		

Ikeda JP, Mitchell RA. Dietary approaches to the treatment of the overweight pediatric patient. Pediatric Clinics of North America. 2001;48(4):955-68.	В
IPEG guidelines for surgical treatment of extremely obese adolescents. Journal of Laparoendoscopic and Advanced Surgical Techniques. 2008;18(6):xiv-xvi.	В
James KS. All in the family. Treating obesity in children and adolescents. Advance for Nurse Practitioners. 2001;9(1):26-32; quiz -3.	В
Janicke DM, Steele RG, Gayes LA, Lim CS, Clifford LM, Schneider EM, et al. Systematic review and meta-analysis of comprehensive behavioral family lifestyle interventions addressing pediatric obesity. Journal of Pediatric Psychology. 2014;39(8):809-25.	Е
Jelalian E, Lloyd EE. Adolescent obesity: assessment and treatment. Medicine and health, Rhode Island. 1997;80(11):367-9.	В
Jelalian E, Saelens BE. Empirically supported treatments in pediatric psychology: pediatric obesity. Journal of Pediatric Psychology. 1999;24(3):223-48.	E
Jelalian E, Wember YM, Bungeroth H, Birmaher V. Practitioner review: bridging the gap between research and clinical practice in pediatric obesity. Journal of Child Psychology & Psychiatry & Allied Disciplines. 2007;48(2):115-27.	В
Jelalian E. Advances in obesity: Psychosocial issues and lifestyle interventions. Pediatric Diabetes. 2011;12:3.	В
Johnson BJ, Hendrie GA, Golley RK. Reducing discretionary food and beverage intake in early childhood: a systematic review within an ecological framework. Public Health Nutrition. 2015.	D
Jouret B, Tauber M. Child and adult obesity. Revue du Praticien. 2004;54(9):997-1006.	Α
Jouret B. Child obesity. Cahiers de Nutrition et de Dietetique. 2002;37(3):209-16.	Α
Kader M, Sundblom E, Elinder LS. Effectiveness of universal parental support interventions addressing children's dietary habits, physical activity and bodyweight: A systematic review. Preventive Medicine. 2015;77:52-67.	D
Kaliebe K. Rules of thumb: Three simple ideas for overcoming the complex problem of childhood obesity. Journal of the American Academy of Child and Adolescent Psychiatry. 2014;53(4):385-7.e1.	В
Kamath CC, Vickers KS, Ehrlich A, McGovern L, Johnson J, Singhal V, et al. Clinical review: behavioral interventions to prevent childhood obesity: a systematic review and metaanalyses of randomized trials. Journal of Clinical Endocrinology & Metabolism. 2008;93(12):4606-15.	D
Kanekar A, Sharma M. Meta-analysis of school-based childhood obesity interventions in the U.K. and U.S. International Quarterly of Community Health Education. 2009;29(3):241-56.	D
Kaplan RD. In their own words: Using interviews with children to co-create a specialized intervention program for pediatric overweight and obesity. Dissertation Abstracts International: Section B: The Sciences and Engineering. 2004;65(2-B):1030.	В
Karnik S, Kanekar A. Childhood obesity: A global public health crisis. International Journal of Preventive Medicine. 2012;3(1):1-7.	В
Katz DL, Daniels S, Gardner CD, Goodman E, Hassink S, Sothern M. What we don't know: Unanswered questions about childhood obesity. Childhood Obesity. 2012;8(1):7-12.	В
Katz DL, O'Connell M, Njike VY, Yeh MC, Nawaz H. Strategies for the prevention and control of obesity in the school setting: systematic review and meta-analysis. International Journal of Obesity. 2008;32(12):1780-9.	E
Katz DL. School-based interventions for health promotion and weight control: not just waiting on the world to change. Annual Review of Public Health. 2009;30:253-72.	D
Keaschuk RA, Ball GDC. Tailoring Health Services for Managing Pediatric Obesity: A Proposed, Practice-Based Framework for Working with Families. Current Nutrition Reports. 2013;2(4):243-50.	В

with meta-analysis. BMC Pediatrics. 2014;14(1).	Ξ
Kelley GA, Kelley KS. Effects of exercise in the treatment of overweight and obese children and adolescents: A systematic review of meta- analyses. Journal of Obesity. 2013;2013.	3
Kellou N, Sandalinas F, Copin N, Simon C. Prevention of unhealthy weight in children by promoting physical activity using a socio-ecological approach: what can we learn from intervention studies? Diabetes & Metabolism. 2014;40(4):258-71.)
Kelly KP, Kirschenbaum DS. The promise of immersion treatment for obese children and adolescents in 2009: A review. Obesity and Weight Management. 2010;6(1):35-8.	Ξ
Kelly SA, Melnyk BM. Systematic review of multicomponent interventions with overweight middle adolescents: implications for clinical practice and research. Worldviews on Evidence-Based Nursing. 2008;5(3):113-35.	Ξ
Khambalia AZ, Dickinson S, Hardy LL, Gill T, Baur LA. A synthesis of existing systematic reviews and meta-analyses of school-based behavioural interventions for controlling and preventing obesity. Obesity Reviews. 2012;13(3):214-33.B	3
Khandpur N, Blaine RE, Fisher JO, Davison KK. Fathers' child feeding practices: a review of the evidence. Appetite. 2014;78:110-21.	3
Khaodhiar L, Apovian CM. Current perspectives of obesity and its treatment. Managed Care Interface. 2007;20(5):24-31.	3
Kirk S, Scott BJ, Daniels SR. Pediatric obesity epidemic: treatment options. Journal of the American Dietetic Association. 2005;105(5 Suppl 1):S44-51.	3
Kirk S, Zeller M, Claytor R, Santangelo M, Khoury PR, Daniels SR. The relationship of health outcomes to improvement in BMI in children and adolescents. Obesity Research. 2005;13(5):876-82.	3
Kirk SF, Penney TL, McHugh TL, Sharma AM. Effective weight management practice: a review of the lifestyle intervention evidence. B International Journal of Obesity. 2012;36(2):178-85 8p.	3
Kirschenbaum DS, Gierut K. Treatment of childhood and adolescent obesity: an integrative review of recent recommendations from five expert groups. Journal of Consulting & Clinical Psychology. 2013;81(2):347-60.	3
Kitzmann KM, Beech BM. Family-based interventions for pediatric obesity: methodological and conceptual challenges from family psychology. Journal of Family Psychology. 2006;20(2):175-89.	=
Kitzmann KM, Dalton WT, 3rd, Stanley CM, Beech BM, Reeves TP, Buscemi J, et al. Lifestyle interventions for youth who are overweight: a meta-analytic review. Health Psychology. 2010;29(1):91-101.	Ξ
Klesges LM, Williams NA, Davis KS, Buscemi J, Kitzmann KM. External validity reporting in behavioral treatment of childhood obesity: a systematic review. American Journal of Preventive Medicine. 2012;42(2):185-92.	Ξ
Kong AS, Dalen J, Negrete S, Sanders SG, Keane PC, Davis SM. Interventions for treating overweight and obesity in adolescents. Adolescent Medicine. 2012;23(3):544-70.	3
Krishnaswami J, Martinson M, Wakimoto P, Anglemeyer A. Community-engaged interventions on diet, activity, and weight outcomes in U.S. schools: A systematic review. American Journal of Preventive Medicine. 2012;43(1):81-91.)
Kubo T. Common approach to childhood obesity in Japan. Journal of Pediatric Endocrinology. 2014;27(7-8):581-92. B	3
Kuhl ES, Clifford LM, Stark LJ. Obesity in preschoolers: behavioral correlates and directions for treatment. Obesity. 2012;20(1):3-29.	Ξ
Kumanyika SK, Whitt-Glover MC, Haire-Joshu D. What works for obesity prevention and treatment in black Americans? Research directions. Obesity Reviews. 2014;15 Suppl 4:204-12.	3

Kyrou I, Kumar S. Weight management in overweight and obese patients with type 2 diabetes mellitus. British Journal of Diabetes & Vascular Disease. 2010;10(6):274-83 10p.	В
Lagerros YT, Rossner S. Managing obesity from childhood and onwards. International Journal of Pediatric Obesity. 2011;6(SUPPL. 1):74-8.	В
Lambiase M. Treating pediatric overweight through reductions in sedentary behavior: a review of the literature. Journal of Pediatric Health Care. 2009;23(1):29-36.	E
Lamboglia CM, da Silva VT, de Vasconcelos Filho JE, Pinheiro MH, Munguba MC, Silva Junior FV, et al. Exergaming as a strategic tool in the fight against childhood obesity: a systematic review. Journal of Obesity. 2013;2013:438364.	Е
Larsen JK, Hermans RCJ, Sleddens EFC, Engels RCME, Fisher JO, Kremers SSPJ. How parental dietary behavior and food parenting practices affect children's dietary behavior. Interacting sources of influence? Appetite. 2015;89:246-57.	В
Lasikiewicz N, Myrissa K, Hoyland A, Lawton CL. Psychological benefits of weight loss following behavioural and/or dietary weight loss interventions. A systematic research review. Appetite. 2014;72:123-37 15p.	С
Latzer Y, Edmunds L, Fenig S, Golan M, Eitan G, Hochberg Ze, et al. Managing childhood overweight: Behavior, family, pharmacology, and bariatric surgery interventions. Obesity. 2009;17(3):411-23.	В
Lau DC, Douketis JD, Morrison KM, Hramiak IM, Sharma AM, Ur E, et al. 2006 Canadian clinical practice guidelines on the management and prevention of obesity in adults and children [summary]. CMAJ Canadian Medical Association Journal. 2007;176(8):S1-13.	В
Lavelle HV, MacKay DF, Pell JP. Systematic review and meta-analysis of school-based interventions to reduce body mass index. Journal of Public Health (United Kingdom). 2012;34(3):360-9.	Е
Laws R, Campbell KJ, van der Pligt P, Russell G, Ball K, Lynch J, et al. The impact of interventions to prevent obesity or improve obesity related behaviours in children (0-5 years) from socioeconomically disadvantaged and/or indigenous families: a systematic review. BMC Public Health. 2014;14:779.	D
Lee JM. Why young adults hold the key to assessing the obesity epidemic in children. Archives of Pediatrics and Adolescent Medicine. 2008;162(7):682-7.	В
Li M, Li S, Baur LA, Huxley RR. A systematic review of school-based intervention studies for the prevention or reduction of excess weight among Chinese children and adolescents. Obesity Reviews. 2008;9(6):548-59.	Е
Li X, Hesketh T. What works in china? A literature review on effectiveness of current intervention for combating obesity among Chinese school-aged children. Obesity Facts. 2015;8:147-8.	В
Ligthart KAM, Paulis WD, Djasmo D, Koes BW, van Middelkoop M. Effect of multidisciplinary interventions on quality of life in obese children: a systematic review and meta-analysis. Quality of Life Research. 2015;24(7):1635-43.	Е
Limbers CA, Turner EA, Varni JW. Promoting healthy lifestyles: Behavior modification and motivational interviewing in the treatment of childhood obesity. Journal of Clinical Lipidology. 2008;2(3):169-78.	В
Lindström J, Peltonen M, Tuomilehto J. Lifestyle strategies for weight control: experience from the Finnish Diabetes Prevention Study. Proceedings of the Nutrition Society. 2005;64(1):81-8 8p.	В
Ling J, Robbins LB, Wen F. Interventions to prevent and manage overweight or obesity in preschool children: A systematic review. International Journal of Nursing Studies. 2015.	Е
Lobstein T. Child obesity: what can be done and who will do it? Proceedings of the Nutrition Society. 2008;67(3):301-6.	В
López L, Audisio Y, Berra S. Effectiveness of population-based interventions on the prevention of overweight in children and adolescents. Medicina Clinica. 2010;135(10):462-9.	А

Loprinzi PD, Cardinal BJ, Loprinzi KL, Lee H. Parenting practices as mediators of child physical activity and weight status. Obesity Facts. 2012;5(3):420-30.	В
Loth KA, Fulkerson JA, Neumark-Sztainer DR. Food-related parenting practices and child and adolescent weight and weight-related behaviors. Clinical Practice. 2014;11(2):207-20.	В
Louie JCY, Flood VM, Hector DJ, Rangan AM, Gill TP. Dairy consumption and overweight and obesity: A systematic review of prospective cohort studies. Obesity Reviews. 2011;12(7):e582-e92.	В
Luther B. Looking at childhood obesity through the lens of Baumrind's parenting typologies. Orthopaedic Nursing. 2007;26(5):270-8; quiz 9- 80.	В
Luzier JL, Berlin KS, Weeks JW. Behavioral treatment of pediatric obesity: Review and future directions. Children's Health Care. 2010;39(4):312-34.	В
Macfarlane DJ, Thomas GN. Exercise and diet in weight management: updating what works. British Journal of Sports Medicine. 2010;44(16):1197-201 5p.	В
Maes L, Van Lippevelde W, Kovacs E, Bjelland M, Fernadez-Alvira J, Verloigne M, et al. New insights in parental involvement in school based obesity prevention programmes in Europe. Results from the energy systematic reviews and focus groups. Obesity Reviews. 2011;12:38-9.	В
Maffeis C. Physical activity in the prevention and treatment of childhood obesity: Physio-pathologic evidence and promising experiences. International Journal of Pediatric Obesity. 2008;3(SUPPL.2):29-32.	В
Maggio CA, Pi-Sunyer FX. The prevention and treatment of obesity: Application to type 2 diabetes. Diabetes Care. 1997;20(11):1744-66.	В
Magnusson J. Childhood obesity: prevention, treatment and recommendations for health. Community Practitioner. 2005;78(4):147-9.	В
Marshall SJ, Simoes EJ, Eisenberg CM, Holub CK, Arredondo EM, Barquera S, et al. Weight-related child behavioral interventions in Brazil: a systematic review. American Journal of Preventive Medicine. 2013;44(5):543-9.	E
Martin J, Chater A, Lorencatto F. Effective behaviour change techniques in the prevention and management of childhood obesity. International Journal of Obesity. 2013;37(10):1287-94.	Е
Martin-Bautista E, Martin-Matillas M, Martin-Lagos JA, Campoy C. The combat against childhood obesity in the european Union. Agro Food Industry Hi-Tech. 2008;19(4):XIII-XV.	В
Martínez Rodríguez IM, Rodríguez Bertheau A, Macías Gelabert A, Vásquez Ortiz D. Influence of the maternal and child health program on the health of pregnant women and infants in "Salvador Allende" polyclinic. Revista Cubana de Higiene y Epidemiologia. 2014;52(3):364-71.	А
Martins EB, Sá Carvalho M. Birth weight and overweight in childhood: A systematic review. Cadernos de Saude Publica. 2006;22(11):2281- 300.	А
Mason HN, Crabtree V, Caudill P, Topp R. Childhood obesity: a transtheoretical case management approach. Journal of Pediatric Nursing. 2008;23(5):337-44.	В
Mazzeo SE, Mitchell KS, Gerke CK, Bulik CM. Parental feeding style and eating attitudes: Influences on children's eating behavior. Current Nutrition and Food Science. 2006;2(3):275-95.	В
McClafferty HH. Integrative approach to obesity. Pediatric Clinics of North America. 2007;54(6):969-81; xi.	В
McDonald SD. Management and prevention of obesity in adults and children. CMAJ : Canadian Medical Association journal [Internet]. 2007 [cited DW B]; 176(8):[1109-10 pp.]. Available from: http://onlinelibrary.wiley.com/o/cochrane/clcentral/articles/388/CN-00890388/frame.html	В
McDuffie JR, Yanovski JA. Treatment of childhood and adolescent obesity. Endocrinologist. 2004;14(3):138-43.	В

Me re	cGovern L, Johnson JN, Paulo R, Hettinger A, Singhal V, Kamath C, et al. Clinical review: treatment of pediatric obesity: a systematic view and meta-analysis of randomized trials. Journal of Clinical Endocrinology & Metabolism. 2008:93(12):4600-5.	Е
M sy As	cLean N, Griffin S, Toney K, Hardeman W. Family involvement in weight control, weight maintenance and weight-loss interventions: a stematic review of randomised trials. International Journal of Obesity & Related Metabolic Disorders: Journal of the International ssociation for the Study of Obesity. 2003;27(9):987-1005.	E
M	cLennan J. Obesity in children. Tackling a growing problem. Australian Family Physician. 2004;33(1-2):33-6.	В
M Nu	cTigue KM, Conroy MB. Use of the internet in the treatment of obesity and prevention of type 2 diabetes in primary care. Proceedings of the utrition Society. 2013;72(1):98-108 11p.	В
M	elnyk BM. A Focus on Child Health and Parenting. Worldviews on Evidence-Based Nursing. 2005;2(1):40-4.	В
Me tria	etcalf B, Henley W, Wilkin T. Effectiveness of intervention on physical activity of children: systematic review and meta-analysis of controlled als with objectively measured outcomes (EarlyBird 54). BMJ. 2012;345:e5888.	E
Mi die Pr	icha R, Bakogianni I, Karageorgou D, Trichia E, Shulkin ML, Shangguan S, et al. Effectiveness of school procurement policies for improving etary behaviors: A systematic review and meta-analysis. Circulation Conference: American Heart Association's Epidemiology and revention/Lifestyle and Cardiometabolic Health. 2016;133(no pagination).	В
Mi Hu	iller DP. Environmental influences on child obesity: Maternal work and other factors. Dissertation Abstracts International Section A: umanities and Social Sciences. 2010;70(8-A):3192.	В
Mi	iller J. Advances in pediatric obesity research. Pediatric Health. 2008;2(1):71-7.	В
Mi Me	iller JL, Silverstein JH. The management of type 2 diabetes mellitus in children and adolescents. Journal of Pediatric Endocrinology and etabolism. 2005;18(2):111-23.	В
Mi 20	in HP, Kinra S, Ward KJ, White B, Viner RM. Metformin for obesity in children and adolescents: A systematic review. Diabetes Care. 009;32(9):1743-5.	D
Mi	inshall G. Parenting interventions in childhood obesity. Obesity Research and Clinical Practice. 2013;7:e32.	В
Mi 20	itka M. Programs to reduce childhood obesity seem to work, say cochrane reviewers. JAMA - Journal of the American Medical Association. 012;307(5):444-5.	В
M Bu	o A, Kunze D, Wabitsch M. Evidence-based therapy guideline of the German Working Group on Obesity in Childhood and Adolescence. undesgesundheitsblatt - Gesundheitsforschung - Gesundheitsschutz. 2011;54(5):584-90.	А
M	odan-Moses D, Meyerovitch J. Obesity in children: recent advances and recommendations for treatment. Harefuah. 1999;136(12):972-7.	Α
Me Se	odan-Moses D, Weintraub M, Meyerovitch J, Segal-Lieberman G, Bielorai B, Shimon I. Hypopituitarism in Langerhans cell histiocytosis: even cases and literature review. Journal of Endocrinological Investigation. 2001;24(8):612-7.	В
M Cł	ogul A, Irby MB, Skelton JA. A systematic review of pediatric obesity and family communication through the lens of addiction literature. hildhood Obesity. 2014;10(3):197-206.	В
Me qu	oise N, Cifuentes E, Orozco E, Willett W. Limiting the consumption of sugar sweetened beverages in Mexico's obesogenic environment: A alitative policy review and stakeholder analysis. Journal of Public Health Policy. 2011;32(4):458-75.	В
M 20	olinari-Büchi B, Barth J, Janner M, Frey P. Overweight and obesity in children: Known facts and new trends. Revue Medicale Suisse.)10;6(249):1022-5.	А

Molnar D, Erhardt E. Severe childhood obesity: What are the keys for management? International Journal of Pediatric Obesity. 2008;3(SUPPL.2):9-14.	В
Monasta L, Batty GD, Macaluso A, Ronfani L, Lutje V, Bavcar A, et al. Interventions for the prevention of overweight and obesity in preschool children: a systematic review of randomized controlled trials. Obesity Reviews. 2011;12(5):e107-18.	D
Moore BA, O'Donohue WT. Examining Family-Based Treatments for Pediatric Obesity: A Detailed Review of the Last 10-Years. Psychological approaches to chronic disease management. 2005:225-70.	В
Moreno LA, Ochoa MC, Warnberg J, Marti A, Martinez JA, Marcos A. Treatment of obesity in children and adolescents. How nutrition can work? International Journal of Pediatric Obesity. 2008;3(SUPPL.1):72-7.	В
Moreno LA. Obesity in children and adolescents. A critical review. Endocrinologia y Nutricion. 2013;60(SUPPL.1):7-9.	В
Morgan PJ. Child obesity prevention: Interventions engaging mums and dads. Obesity Research and Clinical Practice. 2011;5:S5.	В
Morgan PS. The psychological treatments utilized in prevention and treatment programs for childhood obesity. Dissertation Abstracts International: Section B: The Sciences and Engineering. 2005;65(12-B):6637.	В
Morris H, Skouteris H, Edwards S, Rutherford L. Obesity prevention interventions in early childhood education and care settings with parenta involvement: A systematic review. Early Child Development and Care. 2015;185(8):1283-313.	D
Morris V. Community-based programming to treat childhood obesity. Current Diabetes Reports. 2006;6(5):395-400.	В
Morrissette PJ, Taylor D. Family counseling and childhood obesity: A review of approaches. The Family Journal. 2002;10(1):19-26.	В
Mortensen A, Lenz K, Abildstrøm H, Lauritsen TLB. Anesthetizing the obese child. Paediatric Anaesthesia. 2011;21(6):623-9.	В
Morton KL, Atkin AJ, Corder K, Suhrcke M, van Sluijs EMF. The school environment and adolescent physical activity and sedentary behaviour: A mixed-studies systematic review. Obesity Reviews. 2016;17(2):142-58.	E
Moya M. An update in prevention and treatment of pediatric obesity. World Journal of Pediatrics. 2008;4(3):173-85.	В
Muhlig Y, Hebebrand J. Behavioral weight-loss treatment in children and adolescents: Potentials and limitations. European Child and Adolescent Psychiatry. 2015;1):S101.	В
Muhlig Y, Hebebrand J. Weight-loss treatment in children and adolescents: Systematic review and evaluation of the effect of conservative treatment on weight status. Obesity Facts. 2015;8:199.	В
Mühlig Y, Wabitsch M, Moss A, Hebebrand J. Weight loss in children and adolescents - A systematic review and evaluation of conservative, nonpharmacological obesity treatment programs. Deutsches Arzteblatt International. 2014;111(48):818-24.	E
Muller MJ, Danielzik S, Pust S. School- and family-based interventions to prevent overweight in children. Proceedings of the Nutrition Society 2005;64(2):249-54.	. В
Müller MJ, Reinehr T, Hebebrand J. Prevention and treatment of child and adolescent obesity - Societal as well as behavioural approaches are needed. Deutsches Arzteblatt. 2006;103(6):A334-40.	Α
Munsch S, Biedert E, Roth B, Speck V, Roth S. Outpatient treatment of childhood and adolescent obesity. Zeitschrift fur Kinder- und Jugendpsychiatrie und Psychotherapie. 2005;33(2):89-103.	Α
Mushi-Brunt CR. Fruit and vegetable intake and weight status among pre-adolescent children: An ecological perspective. Dissertation Abstracts International: Section B: The Sciences and Engineering. 2009;69(8-B):4705.	В
Must A, Barish EE, Bandini LG. Modifiable risk factors in relation to changes in BMI and fatness: what have we learned from prospective studies of school-aged children? International Journal of Obesity. 2009;33(7):705-15.	В

Myoungock J, Whittemore R. The Family Management Style Framework for Families of Children with Obesity. Journal of Theory Construction & Testing. 2015;19(1):5-14 0p.	В
Nader PR. The role of the family in obesity prevention and treatment. Annals of the New York Academy of Sciences. 1993;699:147-53.	В
Nagle BJ, Holub CK, Barquera S, Sanchez-Romero LM, Eisenberg CM, Rivera-Dommarco JA, et al. Interventions for the treatment of obesity among children and adolescents in Latin America: a systematic review. Salud Publica de Mexico. 2013;55 Suppl 3:434-40.	Е
Nammi S, Koka S, Chinnala KM, Boini KM. Obesity: An overview on its current perspectives and treatment options. Nutrition Journal. 2004;3(3).	В
Ness-Abramof R, Apovian CM. Diet modification for treatment and prevention of obesity. Endocrine. 2006;29(1):5-9.	В
Nguo K, Walker KZ, Bonham MP, Huggins CE. Systematic review and meta-analysis of the effect of meal intake on postprandial appetite- related gastrointestinal hormones in obese children. International Journal of Obesity. 2016;40(4):555-63.	D
Nichols M, Newman S, Nemeth LS, Magwood G. The Influence of Parental Participation on Obesity Interventions in African American Adolescent Females: An Integrative Review. Journal of Pediatric Nursing. 2015;30(3):485-93 9p.	В
Niemeier BS, Hektner JM, Enger KB. Parent participation in weight-related health interventions for children and adolescents: a systematic review and meta-analysis. Preventive Medicine. 2012;55(1):3-13.	E
Niemeier BS. Weight-related health behaviors and body mass: Associations between young adults and their parents, moderated by parenting styles. Dissertation Abstracts International: Section B: The Sciences and Engineering. 2012;72(7-B):4306.	В
Nixon CA, Moore HJ, Douthwaite W, Gibson EL, Vogele C, Kreichauf S, et al. Identifying effective behavioural models and behaviour change strategies underpinning preschool- and school-based obesity prevention interventions aimed at 4-6-year-olds: a systematic review. Obesity Reviews. 2012;13 Suppl 1:106-17.	Е
No authorship i. Lifestyle interventions for overweight children and adolescents: A meta-analysis. Journal of Sport & Exercise Psychology. 2008;30(3):435-6.	В
Nogueira RC, Weeks BK, Beck BR. Exercise to improve pediatric bone and fat: A systematic review and meta-analysis. Medicine and Science in Sports and Exercise. 2014;46(3):610-21.	D
Nowicka P, Flodmark C-E. Family in pediatric obesity management: A literature review. International Journal of Pediatric Obesity. 2008;3(Suppl 1):44-50.	В
Nowicka P, Flodmark CE. Physical activity: Key issues in treatment of childhood obesity. Acta Paediatrica. 2007;96(Suppl454):39-45.	В
Nowicka P, Savoye M. Strategies that motivate children and their families to take positive action: Empowering self efficacy and change. International Journal of Pediatric Obesity. 2010;5:25-7.	В
Obesity among children. Duodecim; lääketieteellinen aikakauskirja. 2005;121(18):2016-24.	А
Obesity in Children and Adolescents: Is There Effective Treatment? Consultant. 2003;43(14):1708-9.	В
Obesity. Annals of Internal Medicine. 2008;149(7):ITC41-ITC416.	В
O'Brien A. "Web-based weight management programs for children and adolescents: a systematic review of randomized controlled trial studies" by An, Hayman, Park, Dusaj, and Ayres (July-September 2009, Vol 32, No 3, pp 222-240). ANS Advances in nursing science. 2010;33(1):2.	В
O'Dea JA. Prevention of child obesity: 'First, do no harm'. Health Education Research. 2005;20(2):259-65.	В

Okorodudu DE, Bosworth HB, Corsino L. Innovative interventions to promote behavioral change in overweight or obese individuals: A review of the literature. Appals of Medicine, 2015;47(3):179-85	В
Okwonga AB. Mediators and moderators of the links of parenting styles and feeding practices to child weight status. Dissertation Abstracts International: Section B: The Sciences and Engineering, 2012;73(1-B):663.	В
Olds DL, Sadler L, Kitzman H. Programs for parents of infants and toddlers: Recent evidence from randomized trials. Journal of Child Psychology and Psychiatry and Allied Disciplines. 2007;48(3-4):355-91.	В
O'Malley G, Murphy S, Brinkley A, Perry IJ, Clarke M, Burls A. Mhealth interventions for child and adolescent obesity. Acta Paediatrica, International Journal of Paediatrics. 2015;104:17.	В
O'Meara S, Glenny AM, Sheldon T, Melville A, Wilson C. Systematic review of the effectiveness of interventions used in the management of obesity. Journal of Human Nutrition and Dietetics. 1998;11(3):203-6.	Е
Omran A, Elimam D, Yin F. MicroRNAs: New insights into chronic childhood diseases. BioMed Research International. 2013;2013.	В
Oosman S, Abonyi S. Full circle-do intergenerational approaches hold promise for preventing and managing obesity among aboriginal populations? Canadian Journal of Diabetes. 2013;37:S287.	В
Ottley C. Health and nutrition series1. What do we know about childhood obesity? Journal of Family Health Care. 2004;14(1):8-10.	В
Oude Luttikhuis H, Baur L, Jansen H, Shrewsbury VA, O'Malley C, Stolk RP, et al. Interventions for treating obesity in children. Cochrane Database of Systematic Reviews. 2009(1):CD001872.	E
Paes VM, Ong KK, Lakshman R. Factors influencing obesogenic dietary intake in young children (0-6 years): Systematic review of qualitative evidence. BMJ Open. 2015;5(9).	В
Parízková J. Obesity and its treatment by diet and exercise. World review of nutrition and dietetics. 1993;72:78-91.	В
Parízková J. Obesity and its treatment by diet and exercise. World review of nutrition and dietetics. 1993;72:78-91. Parkin P, Gorber SC, Shaw E, Bell N, Jaramillo A, Tonelli M, et al. Recommendations for growth monitoring, and prevention and management of overweight and obesity in children and youth in primary care. Cmaj. 2015;187(6):411-21.	B
 Parízková J. Obesity and its treatment by diet and exercise. World review of nutrition and dietetics. 1993;72:78-91. Parkin P, Gorber SC, Shaw E, Bell N, Jaramillo A, Tonelli M, et al. Recommendations for growth monitoring, and prevention and management of overweight and obesity in children and youth in primary care. Cmaj. 2015;187(6):411-21. Passehl B, McCarroll C, Buechner J, Gearring C, Smith AE, Trowbridge F. Preventing childhood obesity: Establishing healthy lifestyle habits in the preschool years. Journal of Pediatric Health Care. 2004;18(6):315-9. 	B B B
 Parízková J. Obesity and its treatment by diet and exercise. World review of nutrition and dietetics. 1993;72:78-91. Parkin P, Gorber SC, Shaw E, Bell N, Jaramillo A, Tonelli M, et al. Recommendations for growth monitoring, and prevention and management of overweight and obesity in children and youth in primary care. Cmaj. 2015;187(6):411-21. Passehl B, McCarroll C, Buechner J, Gearring C, Smith AE, Trowbridge F. Preventing childhood obesity: Establishing healthy lifestyle habits in the preschool years. Journal of Pediatric Health Care. 2004;18(6):315-9. Patrick H, Hennessy E, McSpadden K, Oh A. Parenting styles and practices in children's obesogenic behaviors: Scientific gaps and future research directions. Childhood Obesity. 2013;9(SUPPL.1):S73-S86. 	B B B B
 Parízková J. Obesity and its treatment by diet and exercise. World review of nutrition and dietetics. 1993;72:78-91. Parkin P, Gorber SC, Shaw E, Bell N, Jaramillo A, Tonelli M, et al. Recommendations for growth monitoring, and prevention and management of overweight and obesity in children and youth in primary care. Cmaj. 2015;187(6):411-21. Passehl B, McCarroll C, Buechner J, Gearring C, Smith AE, Trowbridge F. Preventing childhood obesity: Establishing healthy lifestyle habits in the preschool years. Journal of Pediatric Health Care. 2004;18(6):315-9. Patrick H, Hennessy E, McSpadden K, Oh A. Parenting styles and practices in children's obesogenic behaviors: Scientific gaps and future research directions. Childhood Obesity. 2013;9(SUPPL.1):S73-S86. Pearson ES. Goal setting as a health behavior change strategy in overweight and obese adults: A systematic literature review examining intervention components. Patient Education & Counseling. 2012;87(1):32-42 11p. 	B B B B C
 Parizková J. Obesity and its treatment by diet and exercise. World review of nutrition and dietetics. 1993;72:78-91. Parkin P, Gorber SC, Shaw E, Bell N, Jaramillo A, Tonelli M, et al. Recommendations for growth monitoring, and prevention and management of overweight and obesity in children and youth in primary care. Cmaj. 2015;187(6):411-21. Passehl B, McCarroll C, Buechner J, Gearring C, Smith AE, Trowbridge F. Preventing childhood obesity: Establishing healthy lifestyle habits in the preschool years. Journal of Pediatric Health Care. 2004;18(6):315-9. Patrick H, Hennessy E, McSpadden K, Oh A. Parenting styles and practices in children's obesogenic behaviors: Scientific gaps and future research directions. Childhood Obesity. 2013;9(SUPPL.1):S73-S86. Pearson ES. Goal setting as a health behavior change strategy in overweight and obese adults: A systematic literature review examining intervention components. Patient Education & Counseling. 2012;87(1):32-42 11p. Pearson N, Braithwaite R, Biddle SJH. The effectiveness of interventions to increase physical activity among adolescent girls: A metaanalysis. Academic Pediatrics. 2015;15(1):9-18. 	B B B C E
 Parízková J. Obesity and its treatment by diet and exercise. World review of nutrition and dietetics. 1993;72:78-91. Parkin P, Gorber SC, Shaw E, Bell N, Jaramillo A, Tonelli M, et al. Recommendations for growth monitoring, and prevention and management of overweight and obesity in children and youth in primary care. Cmaj. 2015;187(6):411-21. Passehl B, McCarroll C, Buechner J, Gearring C, Smith AE, Trowbridge F. Preventing childhood obesity: Establishing healthy lifestyle habits in the preschool years. Journal of Pediatric Health Care. 2004;18(6):315-9. Patrick H, Hennessy E, McSpadden K, Oh A. Parenting styles and practices in children's obesogenic behaviors: Scientific gaps and future research directions. Childhood Obesity. 2013;9(SUPPL.1):S73-S86. Pearson ES. Goal setting as a health behavior change strategy in overweight and obese adults: A systematic literature review examining intervention components. Patient Education & Counseling. 2012;87(1):32-42 11p. Pearson N, Braithwaite R, Biddle SJH. The effectiveness of interventions to increase physical activity among adolescent girls: A meta-analysis. Academic Pediatrics. 2015;15(1):9-18. Pellerin G, Mihalynuk T. Pediatric obesity and teledietetics practice: A case for melding theory and practice for enhanced outcomes. Canadian Journal of Diabetes. 2013;37:S272. 	B B B C E B
 Parízková J. Obesity and its treatment by diet and exercise. World review of nutrition and dietetics. 1993;72:78-91. Parkin P, Gorber SC, Shaw E, Bell N, Jaramillo A, Tonelli M, et al. Recommendations for growth monitoring, and prevention and management of overweight and obesity in children and youth in primary care. Cmaj. 2015;187(6):411-21. Passehl B, McCarroll C, Buechner J, Gearring C, Smith AE, Trowbridge F. Preventing childhood obesity: Establishing healthy lifestyle habits in the preschool years. Journal of Pediatric Health Care. 2004;18(6):315-9. Patrick H, Hennessy E, McSpadden K, Oh A. Parenting styles and practices in children's obesogenic behaviors: Scientific gaps and future research directions. Childhood Obesity. 2013;9(SUPPL.1):S73-S86. Pearson ES. Goal setting as a health behavior change strategy in overweight and obese adults: A systematic literature review examining intervention components. Patient Education & Counseling. 2012;87(1):32-42 11p. Pearson N, Braithwaite R, Biddle SJH. The effectiveness of interventions to increase physical activity among adolescent girls: A meta-analysis. Academic Pediatric obesity and teledietetics practice: A case for melding theory and practice for enhanced outcomes. Canadian Journal of Diabetes. 2013;37:S272. Pena MM, Dixon B, Taveras EM. Are you talking to me? the importance of ethnicity and culture in childhood obesity prevention and management. Childhood Obesity. 2012;8(1):23-7. 	B B B C E B B
 Parizková J. Obesity and its treatment by diet and exercise. World review of nutrition and dietetics. 1993;72:78-91. Parkin P, Gorber SC, Shaw E, Bell N, Jaramillo A, Tonelli M, et al. Recommendations for growth monitoring, and prevention and management of overweight and obesity in children and youth in primary care. Cmaj. 2015;187(6):411-21. Passehl B, McCarroll C, Buechner J, Gearring C, Smith AE, Trowbridge F. Preventing childhood obesity: Establishing healthy lifestyle habits in the preschool years. Journal of Pediatric Health Care. 2004;18(6):315-9. Patrick H, Hennessy E, McSpadden K, Oh A. Parenting styles and practices in children's obesogenic behaviors: Scientific gaps and future research directions. Childhood Obesity. 2013;9(SUPPL.1):S73-S86. Pearson ES. Goal setting as a health behavior change strategy in overweight and obese adults: A systematic literature review examining intervention components. Patient Education & Counseling. 2012;87(1):32-42 11p. Pearson N, Braithwaite R, Biddle SJH. The effectiveness of interventions to increase physical activity among adolescent girls: A meta-analysis. Academic Pediatrics. 2015;15(1):9-18. Pellerin G, Mihalynuk T. Pediatric obesity and teledietetics practice: A case for melding theory and practice for enhanced outcomes. Canadian Journal of Diabetes. 2013;37:272. Pena MM, Dixon B, Taveras EM. Are you talking to me? the importance of ethnicity and culture in childhood obesity prevention and management. Childhood Obesity. 2012;8(1):23-7. Peterson Y. Family therapy treatment: working with obese children and their families with small steps and realistic goals. Acta Paediatrica Supplement. 2005;94(448):42-4. 	B B B C E B B B B

Pietrobelli A, Rugolotto S, Cristofaro PD, Malavolti M. Pediatric obesity: looking into treatment. Nutrients. 2009;1(2):197-209.	В
Pinard CA, Yaroch AL, Hart MH, Serrano EL, McFerren MM, Estabrooks PA. Measures of the home environment related to childhood obesity: a systematic review. Public Health Nutrition. 2012;15(1):97-109.	D
Pinquart M. Associations of general parenting and parent-child relationship with pediatric obesity: a meta-analysis. Journal of Pediatric Psychology. 2014;39(4):381-93.	В
Pi-Sunyer FX. How effective are lifestyle changes in the prevention of type 2 diabetes mellitus? Nutrition Reviews. 2007;65(3):101-10 10p.	В
Pi-Sunyer X. The Look AHEAD Trial: A Review and Discussion of Its Outcomes. Current Nutrition Reports. 2014;3(4):387-91.	В
Plourde G. Preventing and managing pediatric obesity. Recommendations for family physicians. Canadian Family Physician. 2006;52:322-8.	В
Poskitt EME. Tackling childhood obesity: Diet, physical activity or lifestyle change? Acta Paediatrica, International Journal of Paediatrics. 2005;94(4):396-8.	В
Power TG, Sleddens EFC, Berge J, Connell L, Govig B, Hennessy E, et al. Contemporary research on parenting: Conceptual, methodological, and translational issues. Childhood Obesity. 2013;9(SUPPL.1):S87-S94.	В
Powers PS, Cloak NL. Psychopharmacologic Treatment of Obesity and Eating Disorders in Children and Adolescents. Child and Adolescent Psychiatric Clinics of North America. 2012;21(4):831-59.	В
Pratt CA, Stevens J, Daniels S. Childhood Obesity Prevention and Treatment. Recommendations for Future Research. American Journal of Preventive Medicine. 2008;35(3):249-52.	В
Pratt KJ. Medical family therapy meets childhood obesity. Dissertation Abstracts International: Section B: The Sciences and Engineering. 2010;71(6-B):3589.	В
Proietto J, Baur LA. 10: Management of obesity. Medical Journal of Australia. 2004;180(9):474-80.	В
Quak SH, Furnes R, Lavine J, Baur LA. Obesity in children and adolescents. Journal of Pediatric Gastroenterology and Nutrition. 2008;47(2):254-9.	В
Racette SB, Deusinger SS, Deusinger RH. Obesity: overview of prevalence, etiology, and treatment. Physical Therapy. 2003;83(3):276-88.	В
Rahman S, Islam MT, Alam DS. Obesity and overweight in Bangladeshi children and adolescents: A scoping review. BMC Public Health. 2014;14(1).	В
Recruitment and retention in obesity prevention and treatment trials targeting minority or low-income children: a review of the clinical trials registration database. BioMed Central; 2015. p. 1-15 p.	E
Redsell SA, Edmonds B, Swift JA, Siriwardena AN, Weng S, Nathan D, et al. Systematic review of randomised controlled trials of interventions that aim to reduce the risk, either directly or indirectly, of overweight and obesity in infancy and early childhood. Maternal and Child Nutrition. 2015.	С
Reed M, Wilbur J, Schoeny M. Parent and African American daughter obesity prevention interventions: An integrative review. Journal of Health Care for the Poor and Underserved. 2015;26(3):737-60.	В
Rees JM. Management of obesity in adolescence. Medical Clinics of North America. 1990;74(5):1275-92.	В
Regber S, Berg-Kelly K, Marild S. Parenting styles and treatment of adolescents with obesity. Pediatric Nursing. 2007;33(1):21-8.	В
Reilly JJ, McDowell ZC. Physical activity interventions in the prevention and treatment of paediatric obesity: systematic review and critical appraisal. Proceedings of the Nutrition Society. 2003;62(3):611-9.	Е

Reilly JJ, Wilson D. Childhood obesity. British Medical Journal. 2006;333(7580):1207-10.	В
Reilly JJ. Assessment of obesity in children and adolescents: synthesis of recent systematic reviews and clinical guidelines. Journal of Human Nutrition & Dietetics. 2010;23(3):205-11.	В
Reilly JJ. Tackling the obesity epidemic: New approaches. Archives of Disease in Childhood. 2006;91(9):724-6.	В
Reinehr T. Effectiveness of lifestyle intervention in overweight children. Proceedings of the Nutrition Society. 2011;70(4):494-505.	В
Reinehr T. Lifestyle intervention in childhood obesity: changes and challenges. Nature Reviews Endocrinology. 2013;9(10):607-14.	В
Reinehr T. Obesity treatment programmes. Pediatric and Adolescent Medicine2015. p. 171-8.	В
Reinert KR, Po'e EK, Barkin SL. The relationship between executive function and obesity in children and adolescents: a systematic literature review. Journal of obesity. 2013;2013:820956.	В
Renders CM, Seidell JC, Van Mechelen W, Hirasing RA. Overweight and obesity in children and adolescents and preventative measures. Nederlands Tijdschrift voor Geneeskunde. 2004;148(42):2066-70.	А
Resnicow K, Davis R, Rollnick S. Motivational interviewing for pediatric obesity: Conceptual issues and evidence review. Journal of the American Dietetic Association. 2006;106(12):2024-33.	В
Resnicow K, Robinson TN. School-based cardiovascular disease prevention studies: Review and synthesis. Annals of Epidemiology. 1997;7(7 SUPPL.):S14-S31.	D
Ridha M, Nourse SE, Tierney ESS. Pediatric interventions using noninvasive vascular health indices. Hypertension. 2015;65(5):949-55.	D
Rippe JM, Hess S. The role of physical activity in the prevention and management of obesity. Journal of the American Dietetic Association. 1998;98(10 Suppl 2):S31-8.	В
Ritchie LD, Welk G, Styne D, Gerstein DE, Crawford PB. Family environment and pediatric overweight: what is a parent to do? Journal of the American Dietetic Association. 2005;105(5 Suppl 1):S70-9.	В
Rivera JA, De Cossío TG, Pedraza LS, Aburto TC, Sánchez TG, Martorell R. Childhood and adolescent overweight and obesity in Latin America: A systematic review. The Lancet Diabetes and Endocrinology. 2014;2(4):321-32.	В
Robinson LE, Webster EK, Whitt-Glover MC, Ceaser TG, Alhassan S. Effectiveness of pre-school- and school-based interventions to impact weight-related behaviours in African American children and youth: a literature review (Provisional abstract). Database of Abstracts of Reviews of Effects [Internet]. 2014 [cited TB E]; (2):[5-25 pp.]. Available from: http://onlinelibrary.wiley.com/o/cochrane/cldare/articles/DARE-12014056583/frame.html.	E
Robinson TN. Behavioural treatment of childhood and adolescent obesity. International Journal of Obesity & Related Metabolic Disorders: Journal of the International Association for the Study of Obesity. 1999;23 Suppl 2:S52-7.	В
Rodé M. The problem of childhood obesity. Lege Artis Medicinae. 2006;16(2):139-44.	Α
Rojas J, Arraiz N, Aguirre M, Velasco M, Bermúdez V. AMPK as target for intervention in childhood and adolescent obesity. Journal of Obesity. 2011;2011.	В
Rome ES. Obesity prevention and treatment. Pediatrics in Review. 2011;32(9):363-73.	В
Rose SA, Poynter PS, Anderson JW, Noar SM, Conigliaro J. Physician weight loss advice and patient weight loss behavior change: a literature review and meta-analysis of survey data. International Journal of Obesity. 2013;37(1):118-28 11p.	С
Roth C, Lakomek M, Müller H, Harz KJ. Obesity in children. Etiology and treatment. Monatsschrift fur Kinderheilkunde. 2002;150(3):329-36.	А

Ī	Ruben AR. Undernutrition and Obesity in Indigenous Children: Epidemiology, Prevention, and Treatment. Pediatric Clinics of North America. 2009;56(6):1285-302.	В
	Russell G, Laws R, Campbell K, Lynch J, Ball K, Denney-Wilson E. Parental influences on weight gain in infants and young children from disadvantaged families. Obesity Research and Clinical Practice. 2013;7:e122-e3.	В
	Ruxton C. Obesity in children. Nursing standard (Royal College of Nursing (Great Britain) : 1987). 2004;18(20):47-52; quiz 4-5.	В
ſ	Sabin M, Shield J. Childhood obesity. In: Korbonits M, editor. Frontiers of Hormone Research2007. p. 85-96.	В
Ī	Safron M, Cislak A, Gaspar T, Luszczynska A. Effects of school-based interventions targeting obesity-related behaviors and body weight change: A systematic umbrella review. Behavioral Medicine. 2011;37(1):15-25.	В
	Safron M, Cislak A, Gaspar T, Luszczynska A. Micro-environmental characteristics related to body weight, diet, and physical activity of children and adolescents: a systematic umbrella review. International Journal of Environmental Health Research. 2011;21(5):317-30.	В
Ī	Sahay TB, Ashbury FD, Roberts M, Rootman I. Effective components for nutrition interventions: a review and application of the literature. Health Promotion Practice. 2006;7(4):418-27 10p.	E
	Sahota P, Wordley J, Woodward J. Effective behavioural components in child and adolescent weight management programmes. Obesity Reviews. 2011;12:57-8.	В
	Sampilo ML. Enhancing interventions for pediatric obesity among young latino children: A mixed methods study (culture, intervention, latino/hispanic, pediatric obesity, enhancing, interventions, pediatric, obesity, young, latino, children, a, mixed, methods, study). Dissertation Abstracts International: Section B: The Sciences and Engineering. 2016;76(7-B(E)):No Pagination Specified.	В
	Santaliestra-Pasias AM, Rey-Lopez JP, Moreno Aznar LA. Obesity and sedentarism in children and adolescents: what should be bone? Nutricion Hospitalaria. 2013;28 Suppl 5:99-104.	В
	Sargent GM, Pilotto LS, Baur LA. Components of primary care interventions to treat childhood overweight and obesity: a systematic review of effect. Obesity Reviews. 2011;12(5):e219-35.	Е
	Sbruzzi G, Eibel B, Barbiero SM, Petkowicz RO, Ribeiro RA, Cesa CC, et al. Educational interventions in childhood obesity: a systematic review with meta-analysis of randomized clinical trials. Preventive Medicine. 2013;56(5):254-64.	E
	Sbruzzi G, Eibel B, Cesa CC, Ribeiro RA, Barbiero SM, Petkowicz R, et al. Educational and behavioral interventions in childhood obesity: A systematic review with metanalysis of randomized clinical trials. European Heart Journal. 2011;32:502-3.	В
	Scaglioni S, Salvioni M, Galimberti C. Influence of parental attitudes in the development of children eating behaviour. British Journal of Nutrition. 2008;99 Suppl 1:S22-5.	В
L	Schmitz MK, Jeffery RW. Public health interventions for the prevention and treatment of obesity. Medical Clinics of North America. 2000;84(2):491-512.	В
	Schneider MB, Brill SR. Obesity in children and adolescents. Pediatrics in Review. 2005;26(5):155-62.	В
-	Schonfeld-Warden N, Warden CH. Pediatric obesity. An overview of etiology and treatment. Pediatric Clinics of North America. 1997;44(2):339-61.	В
	Schreiner B. Promoting lifestyle and behavior change in overweight children and adolescents with type 2 diabetes. Diabetes Spectrum. 2005;18(1):9-12.	
		В

Schwimmer JB. Managing overweight in older children and adolescents. Pediatric Annals. 2004;33(1):39-44.	В
Seburg EM, Olson-Bullis BA, Bredeson DM, Hayes MG, Sherwood NE. A Review of Primary Care-Based Childhood Obesity Prevention and Treatment Interventions. Current Obesity Reports. 2015;4(2):157-73.	E
Seo DC, Sa J. A meta-analysis of obesity interventions among U.S. minority children. Journal of Adolescent Health. 2010;46(4):309-23.	Е
Serban A, Brunard F. Management of childhood obesity. Annales d'Endocrinologie. 2003;64(5 II):3S34-3S9.	Α
Shaya FT, Flores D, Gbarayor CM, Wang J. School-based obesity interventions: a literature review. Journal of School Health. 2008;78(4):189-96.	E
Shcherbakova MI, Poriagina GI, Kovaleva EA. [Obesity in childhood]. Ėksperimental'naia i klinicheskaia gastroėnterologiia = Experimental & clinical gastroenterology. 2010(7):74-83.	А
Sherman JB, Alexander MA. Obesity in children: a research update. Journal of Pediatric Nursing. 1990;5(3):161-7 7p.	В
Sherry B. Food behaviors and other strategies to prevent and treat pediatric overweight. International Journal of Obesity. 2005;29 Suppl 2:S116-26.	В
Shin L, Bregman H, Frazier J, Noyes N. An overview of obesity in children with psychiatric disorders taking atypical antipsychotics. Harvard Review of Psychiatry. 2008;16(2):69-79.	В
Should Schools Send BMI Report Cards to Parents? A Review of Literature. JOPERD: The Journal of Physical Education, Recreation & Dance. 2015;86(9):26-32 7p.	В
Shrewsbury VA, Steinbeck KS, Torvaldsen S, Baur LA. The role of parents in pre-adolescent and adolescent overweight and obesity treatment: a systematic review of clinical recommendations. Obesity Reviews. 2011;12(10):759-69.	В
Silveira JA, Taddei JA, Guerra PH, Nobre MR. Effectiveness of school-based nutrition education interventions to prevent and reduce excessive weight gain in children and adolescents: a systematic review. Jornal de Pediatria. 2011;87(5):382-92.	E
Siopis G, Chey T, Allman-Farinelli M. A systematic review and meta-analysis of interventions for weight management using text messaging. Journal of Human Nutrition & Dietetics. 2015;28 Suppl 2:1-15.	С
Skelton JA, Buehler C, Irby MB, Grzywacz JG. Where are family theories in family-based obesity treatment?: conceptualizing the study of families in pediatric weight management. International Journal of Obesity. 2012;36(7):891-900.	В
Skelton JA, Irby MB, Geiger AM. A systematic review of satisfaction and pediatric obesity treatment: new avenues for addressing attrition. Journal for Healthcare Quality. 2014;36(4):5-22.	E
Skouteris H, McCabe M, Ricciardelli LA, Milgrom J, Baur LA, Aksan N, et al. Parent-child interactions and obesity prevention: A systematic review of the literature. Early Child Development and Care. 2012;182(2):153-74.	В
Sleddens EF, Kremers SP, Hughes SO, Cross MB, Thijs C, De Vries NK, et al. Physical activity parenting: a systematic review of guestionnaires and their associations with child activity levels. Obesity Reviews. 2012;13(11):1015-33.	D
Small L, Anderson D, Melnyk BM. Prevention and early treatment of overweight and obesity in young children: a critical review and appraisal of the evidence. Pediatric Nursing. 2007;33(2):149-52, 55-61, 27.	В
Smith AJ, Skow A, Bodurtha J, Kinra S. Health information technology in screening and treatment of child obesity: a systematic review. Pediatrics. 2013;131(3):e894-902.	E
Snethen JA, Broome ME, Cashin SE. Effective weight loss for overweight children: a meta-analysis of intervention studies. Journal of Pediatric Nursing. 2006;21(1):45-56.	E
·	1

Sondike SB, Kay GA, Emmett MK. Weight loss regimens that control for carbohydrate quality or quantity: A review. Pediatric Diabetes. 2008;9(3 PART 2):33-45.	В
Sothern MS. Exercise as a modality in the treatment of childhood obesity. Pediatric Clinics of North America. 2001;48(4):995-1015.	В
Soto C, White JH. School Health Initiatives and Childhood Obesity: BMI Screening and Reporting. Policy, Politics & Nursing Practice. 2010;11(2):108-14 7p.	В
Spear BA, Barlow SE, Ervin C, Ludwig DS, Saelens BE, Schetzina KE, et al. Recommendations for treatment of child and adolescent overweight and obesity. Pediatrics. 2007;120 Suppl 4:S254-88.	В
Spruijt-Metz D. Etiology, treatment, and prevention of obesity in childhood and adolescence: A decade in review. Journal of Research on Adolescence. 2011;21(1):129-52.	В
Spurrier MB. Preventing childhood obesity: The effects of nutritional education on increasing fruit and vegetable consumption in preschoolers. Dissertation Abstracts International: Section B: The Sciences and Engineering. 2009;69(11-B):6700.	В
Sreevatsava M, Narayan KM, Cunningham SA. Evidence for interventions to prevent and control obesity among children and adolescents: its applicability to India. Indian Journal of Pediatrics. 2013;80 Suppl 1:S115-22.	Е
Stang J, Rehorst J, Golicic M. Parental feeding practices and risk of childhood overweight in girls: Implications for dietetics practice. Journal of the American Dietetic Association. 2004;104(7):1076-9.	В
Staniford LJ, Breckon JD, Copeland RJ. Treatment of childhood obesity: A systematic review. Journal of Child and Family Studies. 2012;21(4):545-64.	Е
Steele RG, Van Allen J. The treatment of pediatric obesity: Bringing contexts and systems into focus. Children's Health Care. 2011;40(3):171- 8.	В
Stein RJ, O'Byrne KK, Suminski RR, Keith Haddock C. Etiology and treatment of obesity in adults and children: Implications for the addiction model. Drugs and Society. 1999;15(1-2):103-21.	В
Steinbeck K. Adolescent overweight and obesityhow best to manage in the general practice setting. Australian Family Physician. 2007;36(8):606-12.	В
Steinbeck K. Childhood obesity. Treatment options. Best Practice & Research Clinical Endocrinology & Metabolism. 2005;19(3):455-69.	В
Steinbeck K. Obesity and nutrition in adolescents. Adolescent Medicine. 2009;20(3):900-14, ix.	В
Stewart L, Houghton J, Hughes AR, Pearson D, Reilly JJ. Dietetic management of pediatric overweight: development and description of a practical and evidence-based behavioral approach. Journal of the American Dietetic Association. 2005;105(11):1810-5.	В
Stewart L, Reilly JJ, Hughes AR. Evidence-based behavioral treatment of obesity in children and adolescents. Child & Adolescent Psychiatric Clinics of North America. 2009;18(1):189-98.	В
Steyn NP, Lambert EV, Tabana H. Conference on "Multidisciplinary approaches to nutritional problems". Symposium on "Diabetes and health". Nutrition interventions for the prevention of type 2 diabetes. Proceedings of the Nutrition Society. 2009;68(1):55-70.	D
Story M, Evans M, Fabsitz RR, Clay TE, Holy Rock B, Broussard B. The epidemic of obesity in American Indian communities and the need for childhood obesity-prevention programs. American Journal of Clinical Nutrition. 1999;69(4 Suppl):747S-54S.	В
Story M, Kaphingst KM, French S. The role of child care settings in obesity prevention. Future of Children. 2006;16(1):143-68.	В
Story M, Kaphingst KM, French S. The role of schools in obesity prevention. Future of Children. 2006;16(1):109-42.	В

Story M, Strauss KF, Zephier E, Broussard BA. Nutritional concerns in American Indian and Alaska Native children: transitions and future directions. Journal of the American Dietetic Association, 1998;98(2):170-6.	В
Story M. School-based approaches for preventing and treating obesity. International Journal of Obesity & Related Metabolic Disorders:	в
Stovitz SD, Schwimmer JB, Martinez H, Story MT. Pediatric Obesity. The Unique Issues in Latino-American Male Youth. American Journal of Preventive Medicine, 2008;34(2):153-60	В
Strahan BE, Elder JH. Obesity in adolescents with autism spectrum disorders. Research in Autism Spectrum Disorders. 2013;7(12):1497-	в
Strock GA, Cottrell ER, Abang AE, Buschbacher RM, Hannon TS. Childhood obesity: A simple equation with complex variables. Journal of Long-Term Effects of Medical Implants. 2005;15(1);15-32.	в
Strong WB, Malina RM, Blimkie CJR, Daniels SR, Dishman RK, Gutin B, et al. Evidence based physical activity for school-age youth. Journal of Pediatrics. 2005;146(6):732-7.	D
Stuart WP, Broome ME, Smith BA, Weaver M. An integrative review of interventions for adolescent weight loss. Journal of School Nursing. 2005;21(2):77-85.	Е
Stubbs CO, Lee AJ. The obesity epidemic: both energy intake and physical activity contribute. Medical Journal of Australia. 2004;181(9):489- 91.	В
Stubbs J, Whybrow S, Lavin J. Dietary and lifestyle measures to enhance satiety and weight control. Nutrition Bulletin. 2010;35(2):113-25 13p.	В
Su MC, Lin CL, Tsao LI. The efficacy of e-health management on weight control in adolescents: A systematic review. Journal of Nursing. 2014;61(1):74-84.	А
Suarez M, Mullins S. Motivational interviewing and pediatric health behavior interventions. Journal of Developmental and Behavioral Pediatrics. 2008;29(5):417-28.	В
Suarez-Balcazar Y, Friesema J, Lukyanova V. Culturally competent interventions to address obesity among African American and Latino children and youth. Occupational Therapy in Health Care. 2013;27(2):113-28.	В
Sudderth SD. Mississippi, America's most obese state: how can we salvage her future? Journal of the Mississippi State Medical Association. 2011;52(3):67-71.	В
Summerbell CD, Ashton V, Campbell KJ, Edmunds L, Kelly S, Waters E. Interventions for treating obesity in children. Cochrane Database of Systematic Reviews. 2003(3):CD001872.	Е
Sweet MA, Appelbaum MI. Is home visiting an effective strategy? A meta-analytic review of home visiting programs for families with young children. Child Development. 2004;75(5):1435-56.	D
Sylvetsky A, Rother KI, Brown R. Artificial sweetener use among children: epidemiology, recommendations, metabolic outcomes, and future directions. Pediatric Clinics of North America. 2011;58(6):1467-80, xi.	В
Symonds ME, Budge H. How promising is thermal imaging in the quest to combat obesity? Imaging in Medicine. 2012;4(6):589-91.	В
Systematic review of interventions in the treatment and prevention of obesity (Structured abstract). Database of Abstracts of Reviews of Effects [Internet]. 1997 B]; (2):[149 p.]. Available from: http://onlinelibrary.wiley.com/o/cochrane/cldare/articles/DARE- 11997001098/frame.html.	В
Szajewska H, Ruszczynski M. Systematic review demonstrating that breakfast consumption influences body weight outcomes in children and adolescents in Europe. Critical Reviews in Food Science & Nutrition. 2010;50(2):113-9.	D

	Szczepura A. Nutrition in an ethnically diverse society: what are some of the key challenges? Proceedings of the Nutrition Society. 2011;70(2):252-62.	В
	Takeuchi K. Hypertension and metabolic syndrome/lifestyle diseases. Rinsho byori The Japanese journal of clinical pathology. 2007;55(5):452-6.	A
Ī	Taleb S, Agli AN. Obesity of the child: Role of the socio-economic factors, parental obesity, food behavior and physical activity in schoolchildren in a city of east Algeria. Cahiers de Nutrition et de Dietetique. 2009;44(4):198-206.	А
Ī	Tam CS, Clement K, Baur LA, Tordjman J. Obesity and low-grade inflammation: a paediatric perspective. Obesity Reviews. 2010;11(2):118-26.	В
Ī	Tanofsky-Kraff M, Haynos AF, Kotler LA, Yanovski SZ, Yanovski JA. Laboratory-based studies of eating among children and adolescents. Current Nutrition and Food Science. 2007;3(1):55-74.	В
	Tate DF. Application of innovative technologies in the prevention and treatment of overweight in children and adolescents. Handbook of childhood and adolescent obesity. 2008:378-404.	В
	The more children watch television, the more overweight they become. Kinderkrankenschwester : Organ der Sektion Kinderkrankenpflege / Deutsche Gesellschaft für Sozialpädiatrie und Deutsche Gesellschaft für Kinderheilkunde. 2006;25(5):207.	А
	Togashi K, Iguchi K, Masuda H. [Prevention and treatment of obesity in children]. Nihon rinsho Japanese journal of clinical medicine. 2013;71(2):310-4.	А
	Tompkins CL, Seablom M, Brock DW. Parental perception of child's body weight: A systematic review. Journal of Child and Family Studies. 2015;24(5):1384-91.	В
ſ	Tounian P. Body-weight regulation in children: A key to obesity physiopathology understanding. Archives de Pediatrie. 2004;11(3):240-4.	Α
ſ	Tounian P. Management of childhood obesity. Revue du Praticien. 2005;55(13):1417-26.	Α
Ī	Towns N, D'Auria J. Parental perceptions of their child's overweight: an integrative review of the literature. Journal of Pediatric Nursing. 2009;24(2):115-30.	В
	Townsend MS, Melgar-Quinonez H, Hudes M, Crawford PB. How well do parents in the United States report heights and weights for children? Public health yearbook, 2009. 2011:45-56.	В
Ī	Townsend MS, Ontai L, Young T, Ritchie LD, Williams ST. Guiding family-based obesity prevention efforts in low-income children in the United States. Part 2: what behaviors do we measure? International Journal of Child & Adolescent Health. 2009;2(1):31-47 17p.	В
Ī	Traebert J, Moreira EAM, Bosco VL, Almeida ICS. Changing from breastfeeding to family feeding: A common problem for both obesity and dental caries. Revista de Nutricao. 2004;17(2):247-53.	A
Ī	Tremblay MS, LeBlanc AG, Kho ME, Saunders TJ, Larouche R, Colley RC, et al. Systematic review of sedentary behaviour and health indicators in school-aged children and youth. International Journal of Behavioral Nutrition & Physical Activity. 2011;8:98.	E
	Trent M. Adolescent obesity: identifying a new group of at-risk youth. Pediatric Annals. 2002;31(9):559-64.	В
	Trifirò G, Salvatoni A, Tanas R, Brambilla P, Maffeis C, Cammareri V, et al. Treatment of childhood obesity. Minerva Pediatrica. 2003;55(5):471-82.	А
	Tripodi A, Severi S, Midili S, Ciardullo AV. Effectiveness of educational programs aimed at promoting healthy lifestyle for obesity prevention among children*. Nutritional Education2012. p. 181-98.	В
Ī	Trombini E. Obesity and adolescence: Psychological factors and family relationships. Recenti Progressi in Medicina. 2007;98(2):112-9.	Α

Truby H, Baxter K, Ware R, Batch J. Successful weight loss for adolescents: What can diet offer? Obesity Research and Clinical Practice. 2011;5:S10.	В
Tsiros MD, Sinn N, Coates AM, Howe PR, Buckley JD. Treatment of adolescent overweight and obesity. European Journal of Pediatrics. 2008;167(1):9-16.	E
Turner T, Spruijt-Metz D, Wen CKF, Hingle MD. Prevention and treatment of pediatric obesity using mobile and wireless technologies: A systematic review. Pediatric Obesity. 2015;10(6):403-9.	E
Uli N, Sundararajan S, Cuttler L. Treatment of childhood obesity. Current Opinion in Endocrinology, Diabetes & Obesity. 2008;15(1):37-47.	В
Valerio G, Licenziati MR, Tanas R, Morino G, Ambruzzi AM, Balsamo A, et al. Management of children and adolescents with severe obesity. Minerva Pediatrica. 2012;64(4):413-31.	A
Valle Jiménez M, Martos Estepa R, Morales Camacho R. Child obesity: A risk situation? Revista Espanola de Obesidad. 2005;3(6):340-51.	Α
van der Heijden LB, Feskens EJ, Janse AJ. Maintenance interventions for overweight or obese children and adolescents who participated in a treatment program: study protocol for a systematic review. Systematic reviews. 2014;3:111.	E
van der Kleij R, Coster N, Verbiest M, van Assema P, Paulussen T, Reis R, et al. Implementation of intersectoral community approaches targeting childhood obesity: A systematic review. Obesity Reviews. 2015;16(6):454-72.	В
Van Der Kruk JJ, Kortekaas F, Lucas C, Jager-Wittenaar H. Obesity: A systematic review on parental involvement in long-term European childhood weight control interventions with a nutritional focus. Obesity Reviews. 2013;14(9):745-60.	Е
Van Dorsten B, Lindley EM. Cognitive and behavioral approaches in the treatment of obesity. Medical Clinics of North America. 2011;95(5):971-88 18p.	В
van Grieken A, Ezendam NP, Paulis WD, van der Wouden JC, Raat H. Primary prevention of overweight in children and adolescents: a meta- analysis of the effectiveness of interventions aiming to decrease sedentary behaviour. International Journal of Behavioral Nutrition & Physical Activity. 2012;9:61.	Е
van Hoek E, Feskens EJ, Bouwman LI, Janse AJ. Effective interventions in overweight or obese young children: systematic review and meta- analysis. Childhood Obesity. 2014;10(6):448-60.	Е
Van Hoek E, Feskens EJM, Bouwman LI, Janse AJ. Effectiveness of interventions in young children with overweight or obesity: Systematic review and metaanalysis. Obesity Facts. 2013;6:228.	E
Van Lippevelde W, Verloigne M, De Bourdeaudhuij I, Brug J, Bjelland M, Lien N, et al. Does parental involvement make a difference in school-based nutrition and physical activity interventions? A systematic review of randomized controlled trials. International Journal of Public Health. 2012;57(4):673-8.	D
Vannucci A, Tanofsky-Kraff M. Overweight and obesity. Comprehensive evidence based interventions for children and adolescents. 2014:335-51.	В
Vasques C, Magalhaes P, Cortinhas A, Mota P, Leitao J, Lopes VP. Effects of intervention programs on child and adolescent BMI: A meta- analysis study. Journal of Physical Activity & Health. 2014;11(2):426-44.	Е
Vaughn K, Waldrop J. Childhood obesity. Part II. Parent education key to beating early childhood obesity. The Nurse practitioner. 2007;32(3):36-41; quiz -3.	В
Vázquez IA, Zapico RB, Rodríguez CF. Childhood obesity as result of an obesogenic lifestyle. Endocrinologia y Nutricion. 2007;54(10):530-4.	Α
Vedanthan R, Bansilal S, Soto AV, Kovacic JC, Latina J, Jaslow R, et al. Family-Based Approaches to Cardiovascular Health Promotion. Journal of the American College of Cardiology. 2016;67(14):1725-37.	В

Vela A, Aguayo A, Rica I, González T, Palmero A, Jiménez P, et al. Clinical evaluation of obese children. Revista Espanola de Obesidad. 2007;5(4):226-35.	А
Vine M, Hargreaves MB, Briefel RR, Orfield C. Expanding the role of primary care in the prevention and treatment of childhood obesity: a review of clinic- and community-based recommendations and interventions. Journal of Obesity. 2013;2013:172035.	Е
Vollmer RL, Mobley AR. Parenting styles, feeding styles, and their influence on child obesogenic behaviors and body weight. A review. Appetite. 2013;71:232-41.	В
Wahi G, Parkin PC, Beyene J, Uleryk EM, Birken CS. Effectiveness of interventions aimed at reducing screen time in children: a systematic review and meta-analysis of randomized controlled trials. Archives of Pediatrics & Adolescent Medicine. 2011;165(11):979-86.	Е
Wake M, Clifford S, Lycett K, Jachno K, Sabin MA, Baldwin S, et al. Natural BMI reductions and overestimation of obesity trial effectiveness. Pediatrics. 2015;135(2):e292-e5.	В
Walters PH, Holloman A, Blomquist L, Bollier M. Childhood obesity: Causes and treatment. ACSM's Health and Fitness Journal. 2003;7(1):17-22.	В
Wang J, Lau W, Zhang Z. The effects of video games-based intervention on children's obesity-related behaviors: A review. Obesity Reviews. 2014:15:146.	В
Wang Y, Cai L, Wu Y, Wilson RF, Weston C, Fawole O, et al. What childhood obesity prevention programmes work? A systematic review and meta-analysis. Obesity Reviews. 2015;16(7):547-65.	D
Wann T, Hayes L, Marshment G, Marcum C, Meiklejohn M, Branscum P. Native American childhood obesity prevention interventions: A systematic review. Vulnerable Children and Youth Studies. 2015;10(2):118-30.	D
Ward-Begnoche WL, Gance-Cleveland B. Promoting behavioral change in overweight youth. Journal of Pediatric Health Care. 2005;19(5):318-28.	В
Ward-Begnoche WL, Pasold TL, McNeill V, Peck KD, Razzaq S, Fry EM, et al. Childhood obesity treatment literature review. Handbook of obesity intervention for the lifespan. 2009:5-20.	В
Wardle J. Understanding the aetiology of childhood obesity: implications for treatment. Proceedings of the Nutrition Society. 2005;64(1):73-9.	В
Wardley B. Book reviewsOur overweight children. What parents, schools and communities can do to control the fatness epidemic. Topics in Clinical Nutrition. 2005;20(1):85-6 2p.	В
Waters E, de Silva-Sanigorski A, Hall BJ, Brown T, Campbell KJ, Gao Y, et al. Interventions for preventing obesity in children. Cochrane Database of Systematic Reviews. 2011(12):CD001871.	D
Waters L, George AS, Chey T, Bauman A. Weight change in control group participants in behavioural weight loss interventions: a systematic review and meta-regression study. BMC Medical Research Methodology. 2012;12(1):120- 1p.	С
Whitlock E, O'Connor E, Williams S, Beil T, Lutz K. Effectiveness of weight management programs in children and adolescents. Evidence Report/Technology Assessment. 2008(170):1-308.	В
Whitlock EP, O'Connor EA, Williams SB, Beil TL, Lutz KW. Effectiveness of weight management interventions in children: a targeted systematic review for the USPSTF. Pediatrics. 2010;125(2):e396-418.	E
Whitlock EP, Williams SB, Gold R, Smith PR, Shipman SA. Screening and interventions for childhood overweight: a summary of evidence for the US Preventive Services Task Force. Pediatrics. 2005;116(1):e125-44.	В
Wilfley DE, Kass AE, Kolko RP. Counseling and behavior change in pediatric obesity. Pediatric Clinics of North America. 2011;58(6):1403-24, x.	В

Wilfley DE, Kolko RP, Kass AE. Cognitive-behavioral therapy for weight management and eating disorders in children and adolescents. Child & Adolescent Psychiatric Clinics of North America. 2011;20(2):271-85.	В
Wilfley DE, Tibbs TL, Van Buren DJ, Reach KP, Walker MS, Epstein LH. Lifestyle interventions in the treatment of childhood overweight: a meta-analytic review of randomized controlled trials. Health Psychology. 2007;26(5):521-32.	Е
Williams CL, Gulli MT, Deckelbaum RJ. Prevention and treatment of childhood obesity. Current atherosclerosis reports. 2001;3(6):486-97.	В
Williams LT. The butt stops here: the optimal treatment for child and adolescent obesity: University of South Carolina; 2009.	В
Williamson DA, Stewart TM. Behavior and lifestyle: approaches to treatment of obesity. Journal of the Louisiana State Medical Society. 2005;157 Spec No 1:S50-5.	В
Wilson DK. New perspectives on health disparities and obesity interventions in youth. Journal of Pediatric Psychology. 2009;34(3):231-44.	В
Wilson P, O'Meara S, Summerbell C, Kelly S, Effective Health Care Review T. The prevention and treatment of childhood obesity. Quality & Safety in Health Care. 2003;12(1):65-74.	В
Wright L. Childhood obesity. Journal of Pediatric Biochemistry. 2013;3(1):5-12.	В
Yackel EE. An activity calendar program for children who are overweight. Pediatric Nursing. 2003;29(1):17-22.	В
Yamazaki K, Murata M. Childhood obesity: treatment and prognosis. Nippon rinsho Japanese journal of clinical medicine. 1995;53 Suppl:529- 33.	А
Yang WY, Williams LT, Collins C, Swee CWS. The relationship between dietary patterns and overweight and obesity in children of Asian developing countries: A systematic review. JBI Database of Systematic Reviews and Implementation Reports. 2012;10(58):4568-99.	В
Yanovski JA. Intensive therapies for pediatric obesity. Pediatric Clinics of North America. 2001;48(4):1041-53.	В
Yanovski JA. Pediatric obesity. Reviews in Endocrine & Metabolic Disorders. 2001;2(4):371-83.	В
Yanovski SZ, Yanovski JA. Obesity. New England Journal of Medicine. 2002;346(8):591-602.	В
Yates T, Khunti K, Troughton J, Davies M. The role of physical activity in the management of type 2 diabetes mellitus. Postgraduate Medical Journal. 2009;85(1001):129-33 5p.	В
Yavuz HM, van ljzendoorn MH, Mesman J, van der Veek S. Interventions aimed at reducing obesity in early childhood: A meta-analysis of programs that involve parents. Journal of Child Psychology and Psychiatry. 2015;56(6):677-92.	D
Yazdanpanahi Z, Molazem Z, Ghadakpour S. Systematic review of active school transport and health related outcomes. Archives of Disease in Childhood. 2012;97:A479.	В
Yeh MC, Beharie N, Obenchain J. Effectiveness of school-based policies to reduce childhood obesity. Overweightness and Walking2010. p. 193-209.	В
Yensel CS, Preud'Homme D, Curry DM. Childhood obesity and insulin-resistant syndrome. Journal of Pediatric Nursing. 2004;19(4):238-46.	В
Yeste D, Carrascosa A. Management of obesity in childhood and adolescence: From diet to surgery. Anales de Pediatria. 2012;77(2):71-4.	В
Yeste D, García-Reyna N, Gussinyer S, Marhuenda C, Clemente M, Albisu M, et al. Present trends in childhood and adolescent obesity treatment. Revista Espanola de Obesidad. 2008;6(3):139-52.	А
Yi Z, Ju L, Jianliang Y, Gang J, Long Q, Jing W, et al. Obesity: Pathophysiology and Interventione. Nutrients. 2014;6(11):5154-83 30p.	В

Yildirim M, van Stralen MM, Chinapaw MJ, Brug J, van Mechelen W, Twisk JW, et al. For whom and under what circumstances do school- based energy balance behavior interventions work? Systematic review on moderators. International Journal of Pediatric Obesity. 2011;6(2- 2):e46-57.	E
Yıldız D, Fidancı BE, Suluhan D. Childhood obesity and prevention approaches. TAF Preventive Medicine Bulletin. 2015;14(4):338-45.	Α
Yildiz E. Medical nutrition therapy in the treatment and prevention of diabetes and related complications. SENDROM. 2008;20(7-8):59-63.	А
Yoon KH, Lee JH, Kim JW, Cho JH, Choi YH, Ko SH, et al. Epidemic obesity and type 2 diabetes in Asia. Lancet. 2006;368(9548):1681-8.	В
Yoong SL, Carey M, Sanson-Fisher R, Grady A. A systematic review of behavioural weight-loss interventions involving primary-care physicians in overweight and obese primary-care patients (1999-2011). Public Health Nutrition. 2013;16(11):2083-99 17p.	С
Young I, de Boer FA, Mikkelsen BE, Rasmussen VB. Healthy eating at school: A European forum. Nutrition Bulletin. 2005;30(1):85-93.	В
Young KL. Treating overweight children and adolescents in the clinic. Clinical Pediatrics. 2005;44(8):647-53.	В
Yu YH, Chen Y, Wang Y. Prevention and therapy of atherosclerosis in childhood. Zhonghua er ke za zhi Chinese journal of pediatrics. 2005;43(7):547-50.	А
Zaitsoff S, Pullmer R, Cyr M, Aime H. The Role of the Therapeutic Alliance in Eating Disorder Treatment Outcomes: A Systematic Review. Eating Disorders. 2015;23(2):99-114.	D
Zamakhshary M, Al Alwan I. Childhood obesity research in Saudi arabia: Where are we and what do we need? International Journal of Pediatric Obesity. 2009;4:8-9.	В
Zanchetti A. Focus on clinical problems. Journal of Hypertension. 2014;32(12):2283-4.	В
Zappalla FR, Gidding SS. Lipid management in children. Endocrinology & Metabolism Clinics of North America. 2009;38(1):171-83.	В
Zappalla FR. Childhood obesity and future cardiac risk: What should physicians be looking for? Pediatric Health. 2010;4(3):255-65.	В
Zappalla FR. Evaluation of dyslipidemia in children. Pediatric Annals. 2006;35(11):808-13.	В
Zargar AH. Type 2 diabetes mellitus in children: An emerging public health problem. Journal International Medical Sciences Academy. 2004;17(1):48-9.	В
Zeitler P. Type 2 diabetes in children and adolescents: Clinical features. Obesity Management. 2007;3(4):170-3.	В
Zlatohlávek L, Vrablík M, Urbanová Z, Pejšová H, Hubáček J, Češka R. Non-pharmacological treatment - Results from Podebrady. Vnitrni Lekarstvi. 2014;60(11):958-62.	А
Zoch-Zwierz WM. Modification of life style in children with hypertension. Polski Merkuriusz Lekarski. 2002;12(71):347-50.	А
Zwiauer K. Prevention and treatment: Obesity in childhood and adolescence. Pharmazie in Unserer Zeit. 2006;35(6):490-8.	Α
Zwiauer KFM. Prevention and treatment of overweight and obesity in children and adoslescents. European Journal of Pediatrics, Supplement. 2000;159(1):S56-S68.	В

[†]Reasons for exclusion - A: Not in English (68); B: Not a systematic review (440); C: Irrelevant population (12); D: Not behavioural obesity treatment intervention (48); E: Not targeting family involvement in interventions (112); F: Not reporting child's weight or BMI outcome (3).

Author (Year)	Search strategy for identifying relevant studies	Inclusion criteria for study selection	Characteristics of included primary trials
		Denulation	
Anderson (2013)	 26 databases: including PubMed, Medline, PsycINFO, Embase. Cochrane Library. 	African–American girls aged 5–18 years.	6 of 27 included trials were relevant* (1990-2011)
	CINAHL	Interventions:	Study designs and countries of interventions:
	 Searched in March 2012 Retrieved publications from 	Some degree of family involvement at home or community setting (i.e. school, local theatre, clinic, park or regreational	RCT (n=5) and NRCT (n=1), conducted in USA only as per inclusion criteria.
	1887 to Mar 2012	centre etc.) with intervention strategies	Participants:
		targeting physical activity, eating/nutrition	Children aged 6-17 years (sample size ranged from n=36-
		or weight.	165; overall total n=465). 3 trials included male and female
			children, while 3 trials included female children only.
Berge	 6 databases: PubMed, 	Population:	Included trials and year range:
(2011)	Medline, PsycINFO, Cochrane Library, CINAHL, Social	Children aged 5-18 years.	11 of 20 included trials were relevant* (2011-2008)
Meta-	Science Abstracts	Interventions:	Study designs and countries of interventions:
analysis	Searched between Dec 2009	Include parent/family member in	RCT (n=10) and NRCT (n=1). Countries not reported.
	and Apr 2010	intervention (direct engage or support	Participanta:
	Retrieved publications from	child behaviour change).	Children aged 6 15 years
Dermi	2000 to 2009	Denulation	Under aged 0-15 years.
(2004)		Children (ago not specified)	13 included trials and year range:
(2004)	Source of data not provided	Children (age not specified).	
	 Betrieved publications from 	Interventions:	Study designs and countries of interventions:
	Jan 1980 to Jan 2004	Include child and at least one parent for	RCT with at least 6-month follow-up as per inclusion
		nutrition, exercise, or behavioural	criteria. Countries not reported.
		changes with duration follow up at least 6	
		months.	Participants:
			Children aged 5-17 years.
Ewald	 6 databases: Medline, 	Population:	Included trials and year range:
(2014)	PsycINFO, Embase,	Overweight/obese children aged 5-12	6 of 8 included trials were relevant* (1998-2011)
	LOCINANE LIDRARY, CINAHL,	years.	Study designs and countries of interventions:
	ASSIA Searched in July 2012 and	Interventions:	
	updated in March 2013		

Appendix IV: Table of included study characteristics (systematic reviews)

Author (Year)	Search strategy for identifying relevant studies	Inclusion criteria for study selection	Characteristics of included primary trials
	 Retrieved publications up to Jun 2013 	Targeting parents only compared with interventions including the child for the treatment of child overweight/obesity	RCT (n=6) with at least 6-month follow-up as per inclusion criteria, conducted in USA (n=2), Australia (n=1), Israel (n=2), Switzerland (n=1).
			<i>Participants:</i> Children aged 8-11 years (overall sample n=466). All trials included male and female children and both parents, apart from one trial, which was restricted to only mothers due to recruitment issues.
Jang (2015)	4 databases: PubMed, PsycINFO, CINAHL, SCOPUS Secreted data pat provided	Population: Not specified.	Included trials and year range: 7 included trials (2007-2014)
	 Retrieved publications from Jan 1990 to Apr 2015 	Interventions: Treatment of childhood overweight or obesity that targeted only parent(s)/guardian(s).	Study designs and countries of interventions: RCT only as per inclusion criteria, conducted in USA (n=3), Australian (n=2), Netherlands (n=1), Belgium (n=1).
			<i>Participants:</i> Children aged 3-13 years (sample size ranged from n=43- 220). Limited information was provided about which parent participated or whether both parents participated in the trial.
Jull (2013) Meta-	 5 databases: Medline, PsycINFO, Embase, Cochrane Controlled Trials 	<i>Population:</i> Children up to age 14 years with overweight or obesity.	<i>Included trials and year range:</i> 4 included trials (2006-2011)
analysis	Register, CINAHLSearched in Dec 2011Date range included in searches not reported	<i>Interventions:</i> Weight loss interventions that compared a parent-only condition to a parent[s] and	Study designs and countries of interventions: RCT only as per inclusion criteria, conducted in USA (n=2), Israel (n=1), Switzerland (n=1).
		child condition.	Participants: Children aged 6-14 years (overall sample n=266; 56% female).
Kelishadi (2014)	 4 databases: PubMed, Medline, ISI Web of Science, and Scopus scientific 	<i>Population:</i> Children aged 2-18 years with overweight or obesity.	Included trials and year range: 26 of 104 included trials were relevant* (2005-2013)
	databasesSearched date not provided	Interventions:	Study designs and countries of interventions: RCT (n=26), conducted in USA (n=9), UK (n=3), Sweden (n=3), Australia (n=2), Finland (n=2), Turkey (n=1),
Author (Year)	Search strategy for identifying	Inclusion criteria for study selection	Characteristics of included primary trials
--	---	---	--
(Year) Kitzman- Ulrich (2010)	 relevant studies Retrieved publications from 2000 to 2002 2 databases: PubMed, PsycINFO, and Google Academic Search Searched date not provided Date range included in searches not reported 	Family-based interventions within community, family, school, and clinic settings or a combination of them conducted among obese/overweight children <i>Population:</i> Youth from elementary school through adolescence. <i>Interventions:</i> Targeted parent behaviours; inclusion of the family in innovative formats (e.g., incorporating the family in school-based programs); inclusion of family functioning or family therapy components (e.g., promoting cohesion, family warmth, healthy communication styles, and reductions in family conflict); inclusion of parent training, parenting styles, or child- management principles (e.g., encouraging authoritative parenting, setting appropriate	Scotland (n=1), China (n=1), Norway (n=1), Holland (n=1), Iceland (n=1), and one study involved European countries of interventions (authors from Netherlands, Denmark, UK, Greece, Germany, Spain, Bulgaria, and Crezch Republic). <i>Participants:</i> Children aged 2-18 years. <i>Included trials and year range:</i> 21 included trials (1981-2008) <i>Study designs and countries of interventions:</i> RCT (n=20) and NRCT (n=1). Countries not reported. <i>Participants:</i> Children aged 5-19 years.
Knowlden	5 databases: Medline, CINALL Education	Population:	Included trials and year range:
	 CINARL, Education Resources Info Center (ERIC), Psychology and Behavioural Sciences Collection and CENTRAL databases Searched date not provided Retrieved publications from 2001 to 2011. 	<i>Interventions:</i> Tertiary prevention studies that included home-based component (home visit, home-based activities) and at least one parent/caregiver.	Study designs and countries of interventions: RCT only as per inclusion criteria, conducted in USA (n=2), Australian (n=5), Israel (n=2). Participants: Children aged 2-16 years with overweight or obesity. One study evaluated outcomes at 7-year follow up and children had mean age of 16 years.

Author (Year)	Search strategy for identifying relevant studies	Inclusion criteria for study selection	Characteristics of included primary trials
Kothandan (2014)	 5 databases: PubMed, Medline, CINAHL, Science Direct, DARE. Searched date not provided Retrieved publications from Jan 2000 to Aug 2010. 	Population:Children aged less than 18 years with obesity.Interventions:School- and family-based interventions for treatment of childhood obesity through two comparing strategies. Results for school-based and family-based were school-based and family-based were	Included trials and year range: 8 of 13 included trials were relevant* (2001-2010) Study designs and countries of interventions: RCT only as per inclusion criteria. Countries not reported. Participants: Children aged 6-14 years (overall sample n=721; males and females)
Loveman (2015) Meta- analysis	 9 databases: Medline, PsycINFO, Embase, Cochrane Library (CDSR, CENTRAL, DARE, HTA), and LILACS as well trial registers. Searched date not provided Retrieved publications up to Feb/March 2015. 	Population: Children aged 5-11 years with overweight or obesity. Interventions: Directed at parents as the agents of change; lifestyle intervention to treat overweight/obesity in children, intervention involved parents only (without children), duration of intervention/follow up at least 6 months, parents as agent of change	Included trials and year range: 20 included trials (1975-2015) Study designs and countries of interventions: RCT only as per inclusion criteria, conducted in USA (n=10), Australia (n=4), Israel (n=1), Switzerland (n=1), Iran (n=1), Belgium (n=1), Netherlands (n=2). Participants: Children aged 4-13 years. The proportion of girls in the trials ranged from 40% to 70% where reported (except 4 trials did not report this), and 1 study included girls only.
Sung Chan (2013)	 6 databases: PubMed, PsycINFO, CINAHL, Cumulative Index to Nursing and Allied Health Literature, Family & Society Studies Worldwide, Social Work Abstracts, and SocINDEX. Searched date not provided Retrieved publications from 1975 to Jun 2012. 	Population: Children aged 2-19 years with overweight or obesity. Interventions: At least one family member in addition to the overweight child in a weight loss or weight control intervention	Included trials and year range: 15 included trials (1975-2010) Study designs and countries of interventions: RCT only as per inclusion criteria. Countries not reported. Participants: Children aged 5-15 years.
Upton (2014)	 4 databases: PubMed, Medline, Academic search, and PsycARTICLES. Searched date not provided 	<i>Population:</i> Children aged 2-19 years with overweight or obesity.	Included trials and year range: 5 of 10 included trials were relevant* (2008-2012) Study designs and countries of interventions:

Author Se (Year) re	earch strategy for identifying elevant studies	Inclusion criteria for study selection	Characteristics of included primary trials
•	Retrieved publications from Jan 1990 to Jun 2013.	Interventions: Family-based, include at least one family member in addition to the overweight child for weight management intervention	RCT (n=4) and NRCT (n=1), conducted in UK only as per inclusion criteria. <i>Participants:</i> Children aged 4-16 years.
Young (2007) Meta- analysis	3 databases: Medline, PsycINFO, CINAHL. Searched date not provided Retrieved publications from 1967 to present (no further details reported).	Population:Children aged 5-12 years.Interventions:Family involvement was defined as having a minimum of one parent or guardian involved in at least one aspect of treatment. Behavioural treatment was determined by a study's use of behavioural or cognitive-behavioural techniques, defined as the authors' inclusion of any combination of the following methods: psychoeducation, stimulus control, developing behavioural awareness, identifying problematic behaviour, modifying current behaviour, and maintaining behaviour change. Weight loss treatment was defined as a program conducted with the primary goal of child weight-loss.	Included trials and year range: 16 included trials (1982-2004) Study designs and countries of interventions: All trials had at least 2 groups (intervention, control, and alternate condition) except for 1 trial (which was a single- group trial). No further details provided for study designs and countries. Participants: Children aged 5-13 years.

RCT: randomized controlled trial; NRCT: non-randomized controlled trial.