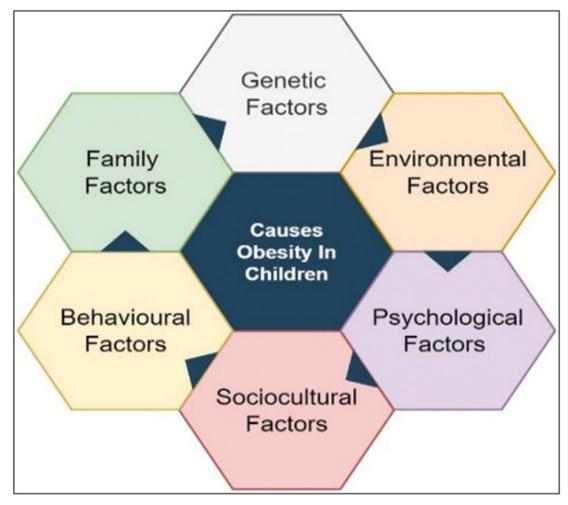
Understanding the AAP's New Childhood Obesity Guidelines

March 30th, 2023

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Pediatrics Chief Clinical Consultant, Indian Health Service
Chief Medial Officer, Albuquerque Area Indian Health Service

Overview

- Review the 2023 AAP Clinical Practice Guidelines
 - What's new
 - Screening & Diagnosis
 - Screening for Comorbidities
 - Treatment
- Applying these guidelines with two recent patients
- Reflections
- Discussion



Amin, Bhat Ulfat. Childhood obesity: Causes, comorbidities, prevention, and management. Jimph. 2022; 1 (2)34-41

What's New in the CPGs

- "Obesity is a complex chronic disease- similar to asthma and diabetes."
- 2. Regularly **screen all children ages 2 years and up** for overweight and obesity
- 3. "Immediate, intensive obesity treatment to each patient."
 - No watchful waiting

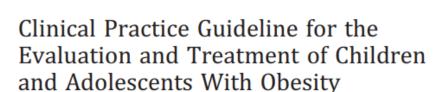
What's New in the CPGs

- 4. Emphasis on Motivational Interviewing and "Intensive Health Behavior and Lifestyle Treatment"
- 5. Offer weight-loss pharmacotherapy to adolescents ages 12 and older as adjunctive therapy.
- 6. Offer referrals for metabolic and bariatric surgery to adolescents ages 13 and older with severe obesity.

The AAP Guidelines have been controversial.... So where can we find common ground?

- We all want what's best for kids.
- Obesity leads to negative health outcomes.
- Childhood obesity is a complex issue, including forces well beyond the control of individual children.
- It is incumbent upon us to develop ways to help children and families lead healthy lives.
- Medical professionals are too often a source of stigma for patients.
 - Obesity treatment should never contribute to the trauma of a child or family.





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Greetings

You have in your hands, or at your fingertips, the first edition of the American Academy of Pediatrics clinical practice guideline for evaluation and management of children and adolescents with overweight and obesity. Putting together this guideline was no small task, and the Academy is grateful to the efforts of all the professionals who contributed to the production of this document. This work is a true testament to their passion and dedication to combatting childhood and adolescent overweight and obesity.

The Subcommittee responsible for developing this guideline comprises a diverse group of professionals from a variety of disciplines representing both governmental entities and private institutions. Experts all, they are united by a common desire to provide the finest, most effective care and treatment to children and adolescents with overweight and obesity. Over the course of several months, the members of the Subcommittee reviewed the technical reports produced from the study review, then worked in concert to develop the Key Action Statements and Expert Consensus Recommendations contained within this guideline. These were crafted with meticulous care by the Subcommittee members, to align with current literature and to place appropriate emphasis on each statement.

While representing such a broad spectrum of perspectives, the members of this committee are all keenly aware of the multitude of barriers to treatment that patients and their families face. These barriers impact not only their access to treatment, but their ability to follow prescribed treatment plans. Whereas some patients are able to adopt the lifestyle changes and habitualize elements of their prescribed treatment plans, so many others struggle to do so for a wide variety of reasons. The members of the Subcommittee understand all of this. To assist with optimizing health equity and overcoming these barriers, guidance on a number of multilevel factors related to barriers to treatment have been included in this guideline. During the course of their work, members of the Subcommittee acknowledged that, although so much has been learned to advance the treatment of children and adolescents with overweight and obesity, there is still so much we have yet

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Clinical Practice Guideline for the Evaluation and Treatment of Children and Adolescents With Obesity

- 13 Key Action Statements
 - Diagnosis & Evaluation
 - Screening for comorbidities
 - Treatment
- Does <u>not</u> cover the prevention of obesity

Hampl SE, Hassink SG, Skinner AC et al. Clinical practice guideline for the evaluation and treatment of children and adolescents with obesity. *Pediatrics*. 2023; 151e2022060640



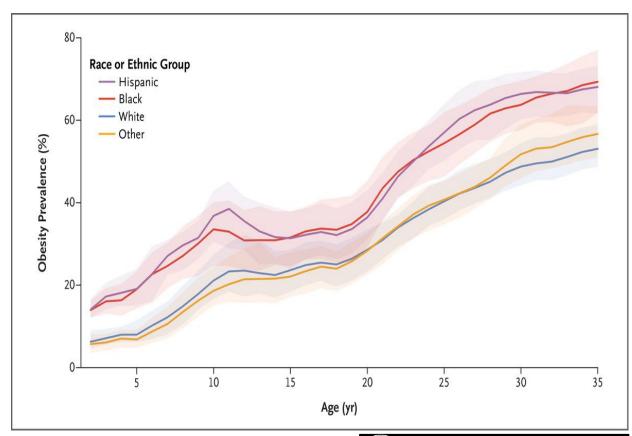


Clinical Practice Guideline for the Evaluation and Treatment of Children and Adolescents With Obesity

Predicted Prevalence of Obesity, According to Race or Ethnic Group

- Poverty
- Racism
- Weight Bias and Stigma
- Adverse Childhood Experiences

The role of Historical and Intergenerational Trauma among AIAN people cannot be overestimated.

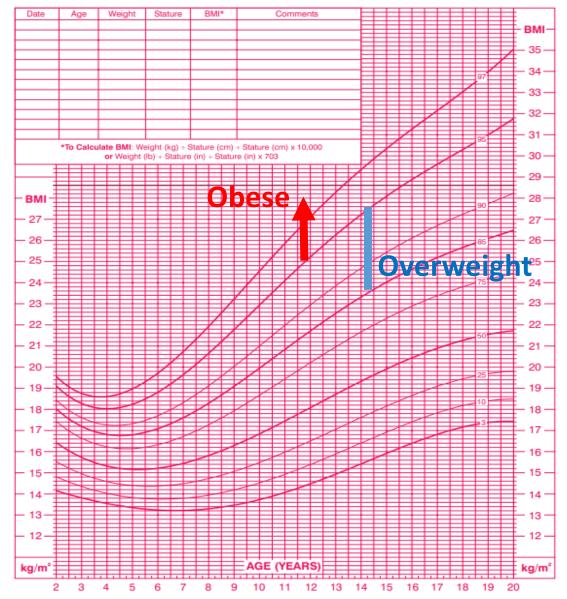


Gen Z & Beyond: Born in the 21st Century

- Born in a Post-9/11 world
 - Heightened sense of threat and security
 - Near continuous state of war involving the US
- School shootings and lockdown drills
- Hyperpolarized and toxic political messaging
- Economic uncertainty (e.g. 2009 Financial Crisis, student loan crisis, COVID layoffs)
- Existential threat of climate change
- COVID Pandemic

All in the context of being the first generations raised entirely tethered to technology

2 to 20 years: Girls Body mass index-for-age percentiles NAME ______RECORD # _____



Published May 30, 2000 (modified 10/16/00).

SOURCE: Developed by the National Center for Health Statistics in collaboration with
the National Center for Chronic Disease Prevention and Health Promotion (2000).

http://www.cdc.gov/growthcharts

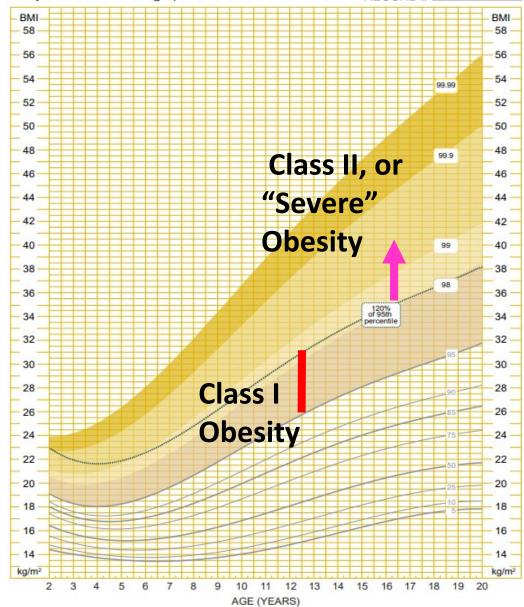


Girls: Ages 2-20 years

Body mass index-for-age percentiles

NAME .

RECORD #



December 15, 2012
Data source: National Health Examination Survey and National Health and Nutrition Examination Survey.
Developed by: National Center for Health Statistics in collaboration with National Center for Chronic Disease Prevention and Health Promotion, 2022.





Evaluation of Patients With Overweight or Obesity

Clinical Practice Guideline for the Evaluation and Treatment of Children and Adolescents With Obesity

Non-stigmatizing conversation about weight with patients and families:

- 1. Ask permission to discuss the patient's BMI and/or weight.
- 2. Avoid labeling by using person-first language ("Child with obesity"; not "obese child" or "my patient is affected by obesity; not "my patient is obese").
- 3. Use words that are **perceived as neutral** by parents, adolescents, and children (e.g. "unhealthy weight, gaining too much weight for age, height, or health)."

Evaluation of Patients With Overweight or Obesity



Clinical Practice Guideline for the Evaluation and Treatment of Children and Adolescents With Obesity

- Both a complete medical history and physical examination are necessary to evaluate any patient with a chronic disease.
 - Chief complaint: "What concerns, if any, do you have about your child's growth and health?"
 - History of the present illness
 - Family history
 - Social history, including home environment
 - Nutrition and Physical Activity History
 - Behavior health and eating disorder concerns
- Assessment of Patient Readiness to Change
 - Motivational interviewing (MI)

From: Clinical Practice Guideline for the Evaluation and Treatment of Children and Adolescents With Obesity

Pediatrics. 2023;151(2). doi:10.1542/peds.2022-060640

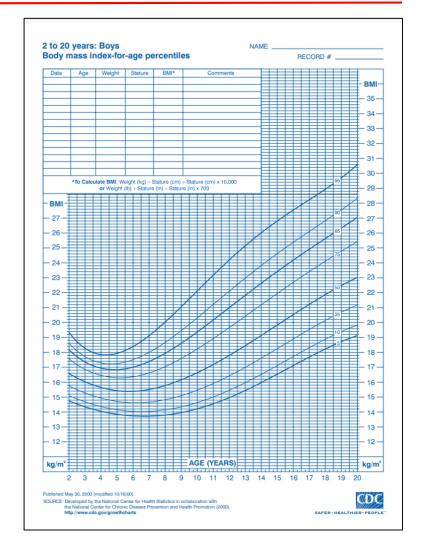
	Aggregate Evidence Quality	Benefit or Harm Predominates	Benefit and Harm Balanced
	Level A Intervention: well designed and conducted trials, meta-analyses on applicable populations Diagnosis: independent gold standard studies of applicable populations	Strong recommendation	Weak
	Level B Trials or diagnostic studies within minor limitations; consistent findings in from multiple observational studies	Moderate recommendation	recommendation (based on balance of benefit and harm)
	Level C Single or few observational studies or multiple studies with inconsistent findings or major limitations	recommendation	
	Level D Expert opinion, case reports, reasoning from first principles	Weak recommendation (based on low quality evidence)	No recommendation may be made
	Level X Exceptional situations in which validating studies cannot be performed, and there is a clear preponderance of benefit or harm	Strong recommendation Moderate recommendation	



Diagnosis and Evaluation

Clinical Practice Guideline for the Evaluation and Treatment of Children and Adolescents With Obesity

- Key Action Statement (KAS) 1: Screening for Obesity Grade B
 - Assess BMI percentile using age- and sexspecific CDC growth charts or growth charts for children with severe obesity at least annually for all children 2 to 18 y of age.





Clinical Practice Guideline for the Evaluation and Treatment of Children and Adolescents With Obesity

- KAS 2: Evaluate for Comorbidities Grade B
- KAS 3: Obtain Blood Work for Children 10 and older Grade B
 - Obesity: check fasting lipids, DM screening*, and ALT
 - Overweight: fasting lipids
 - If risk factors for DM II for NAFLD, may check ALT and DM screening* Grade C
 - For children 2 to 9 y of age with obesity: "may evaluate" for lipid abnormalities Grade C
- KAS 4: Treat overweight, obesity, and comorbidities concurrently.
 Grade A

^{*}DM Screening: fasting plasma glucose, 2-h plasma glucose after 75-g oral glucose tolerance test, or glycosylated hemoglobin (HbA1c)

Interpretation of Test Results#

NHLBI Criteria for Lipid Testing Results▲				
Lipid Category	Low (mg/dL)	Acceptable (mg/dL)	Borderline High (mg/dL)	High (mg/DL)
Total cholesterol	-	<170	170-199	≥200
LDL cholesterol	-	<110	110-129	≥130
HDL cholesterol	<40	>45	-	-
Triglycerides • 0-9 years • 10-19 years	- -	<75 <90	75-99 90-129	≥100 ≥130
Non-HDL cholesterol	-	<120	120-144	≥145

[▲]From CPG Table 8, adapted from the NHLBI Expert Panel on Integrated Guidelines for Cardiovascular Health

	Criteria for Diagnosing Prediabetes and T2DM ♦				
	Prediabetes/Impaired Glucose tolerance	Diabetes Mellitus ^a			
Fasting plasma glucose (FBG) _b	100-125 mg/dL	≥126 mg/dL			
2-hour plasma glucose (OGTT)c	140-199 mg/dL	≥200 mg/dL			
Random plasma glucose (RBG) _d	Not applicable	≥200 mg/dL			
Hemoglobin (HbA1c) _e	5.7% - 6.4%	≥6.5%			

a In the absence of unequivocal hyperglycemia, diagnosis is confirmed if 2 different tests are above threshold or a single test is above threshold on 2 separate occasions.

ь Fasting for at least 8 hours with no calorie intake.

_c Oral glucose tolerance test (OGTT) using a load 1.75 g/kg of body weight of glucose with a maximum of 75 g.

dIn patients with hyperglycemic crises or classic symptoms of hyperglycemia (eg, polyuria, polydipsia).

eGlycosylated hemoglobin (HbA1c) is the preferred test for monitoring prediabetes.

https://www.aap.org/en/patient-care/institute-for-healthy-

♦ From CPG Table 10, based on American Diabetes Association Standards of Medical Care in Diabetes- 2021

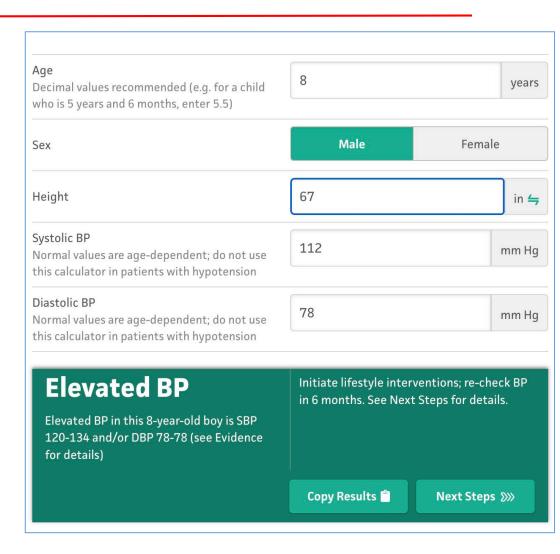
childhood-weight/clinical-supports-for-obesity-prevention/



Clinical Practice Guideline for the Evaluation and Treatment of Children and Adolescents With Obesity

- KAS 8: Blood Pressure Measurement Grade C
 - Evaluate for hypertension by measuring blood pressure at every visit starting at 3 y of age in children and adolescents with overweight and obesity.

Obesity is the strongest risk factor for HTN in childhood





Clinical Practice Guideline for the Evaluation and Treatment of Children and Adolescents With Obesity

Obstructive Sleep Apnea

- Children with obesity have a 5 times higher prevalence of OSA
- Ask about snoring, daytime somnolence, nocturnal enuresis, morning headaches, and inattention
- A polysomnogram is recommended for children and adolescents with obesity and at least 1 symptom of disordered breathing.

Polycystic ovarian syndrome (PCOS)

 Evaluate for menstrual irregularities and signs of hyperandrogenism (ie, hirsutism, acne) among female adolescents with obesity



Clinical Practice Guideline for the Evaluation and Treatment of Children and Adolescents With Obesity

Depression

- Monitor for symptoms of depression in children and adolescents with obesity
- Conduct annual evaluation for depression for adolescents 12 years and older with a formal self-report tool.

Orthopedic Comorbidities

- Perform a musculoskeletal review of systems and physical examination as part of their evaluation for obesity
 - Hip or knee pain: Slipped Capital Femoral Epiphysis (SCFE)
 - Pes planus (flat feet): risk for early knee OA



Treatment

Clinical Practice Guideline for the Evaluation and Treatment of Children and Adolescents With Obesity

KAS 9: Obesity is a chronic disease Grade B, Strong

• Treat overweight and obesity following the principles of the medical home and the chronic care model (i.e. family-centered and non-stigmatizing approach that acknowledges obesity's biologic, social, and structural drivers).

KAS 10: Motivational Interviewing Grade B, Moderate

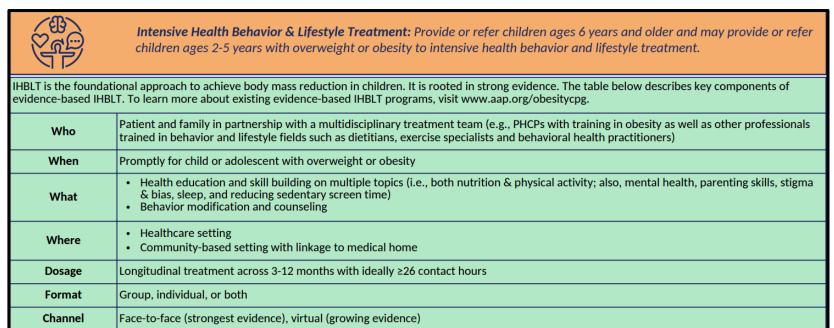
 Pediatricians and other PHCPs should use motivational interviewing (MI) to engage patients and families in treating overweight and obesity.



Treatment

Clinical Practice Guideline for the Evaluation and Treatment of Children and Adolescents With Obesity

- KAS 11: Intensive Health Behavior and Lifestyle Treatment Grade B for ages 6 and older. Grade C for Ages 2-5
 - Criteria for IHBLT includes <u>at least</u> 26 hours of face-to-face, family-based, multicomponent treatment over a 3- to 12-mo period.
 - Ideally close to 75 hours over 6 months
 - Refer as soon as possible



When Intensive Programs Are Not Available

Clinical Practice Guideline for the Evaluation and Treatment of Children and Adolescents With Obesity

- "The major factor driving the effectiveness of IHBLT is the intensity (or dose) of the intervention, measured in hours of face-to-face patient contact."
 - ... ideally 75 hours
- When an IHBLT is not available: Deliver the best available intensive treatment to all children with overweight and obesity.
 - i.e. nutrition and physical activity counseling ...

Clinical Practice Guideline for the **Evaluation and Treatment of Children** and Adolescents With Obesity

Help your patients ZiqZoq Zoomi ZiqZoq away from TV, soda, and junk food ... Zoom into healthy eating, getting active, and feeling great! Help your patients



to Help Patients Achieve a Healthy Weight

FLIP CHART

Help your patients ZigZag Zoom!

ZigZag away from TV, soda, and junk food...

Zoom into healthy eating, getting active, and feeling great!



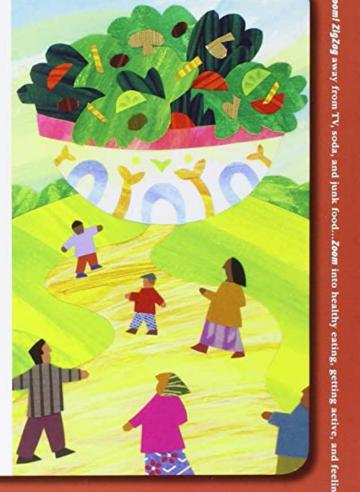
ZigZag away from TV, soda, and junk food...Zoom into healthy eating, getting active,











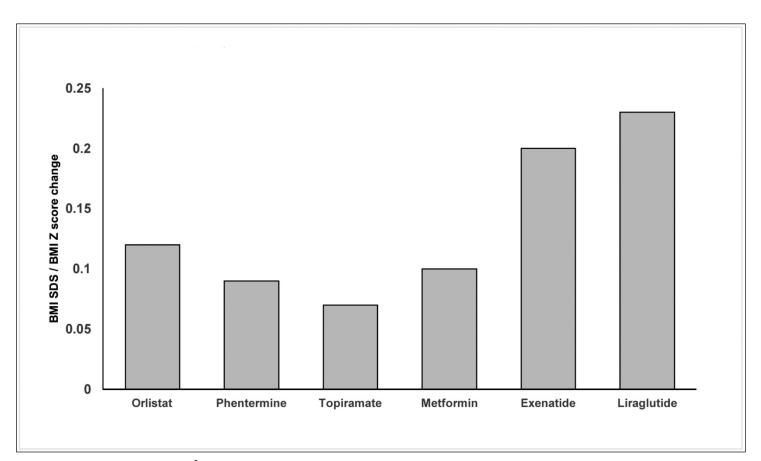
great! Help your patients Zigzog zoom! Zigzog away from TV, soda, and junk food ... Zoom into healthy eating, getting active, and feeling great! Help your

Treatment

Clinical Practice Guideline for the Evaluation and Treatment of Children and Adolescents With Obesity

KAS 12: Pharmacotherapy Grade B

 Offer adolescents 12 y and older with obesity weight loss pharmacotherapy, according to medication indications, risks, and benefits, as an adjunct to health behavior and lifestyle treatment.



BMI SDS/BMI Z score change by weight loss medication

Drug	Function/Background	Age Approved	Dosage/Type	Impact	Side Effects
Metformin	Originally to treat T2DM Mechanism is to improve insulin sensitivity by increasing peripheral tissue uptake of glucose and by inhibiting hepatic glycogenesis	 10 and older Some safety info down to age 8 	Recommended starting dose is 500 mg 1 or 2x daily Gradual increase up to 2500mg Extended release recommended for fewer side effects	2/3 of studies show BMI reduction 1/3 of studies show no benefit Successful BMI reduction is more common in older children and adolescents	 Lactic acidosis is a rare but serious side effect Side effects are dose dependent and include bloating, nausea, flatulence & diarrhea
Orlistat	Intestinal lipase	Age 12 and older	 120 mg 3X per day 	• 2-3% BMI reduction	
	inhibitor that blocks fat absorption through				Fecal urgencyFlatulence
	inhibition of puncteatic				
	and gastric lipase				
Liraglutide & exenatide	Glucagon-like peptide-1 (GLP-1) receptor agonists Decrease hunger by slowing gastric emptying as well as through targets in CNS	Age 12 and older	Starting dose is 0.6 mg/day up to a maximum dose of 3.0 mg/day	About 1/2 of patients will achieve a 5% BMI reduction About 20% will achieve a 10% BMI reduction	
Phentermine	 A central norepinephrine inhibitor Nonselectively inhibits serotonin and dopamine Suppresses appetite 	 16 and older Short term use only (3 months) 	7.5 mg, 15 mg, 30 mg or 37.5 mg	Effectiveness does not always increase with increased dosage	Side effects are dose dependen Elevated BP Dizziness Headache Tremor Dry mouth Stomach ache
Lisdexamphetamine	Stimulant Approved for ADHD	6 and older with ADHD	Dose increments of 10mg, no clear effective dose for BMI reduction	Limited evidence of effectiveness	Elevated blood pressure Insomnia Irritability
Topiramate	Carbonic anhydrase inhibitorSuppresses appetite	 2 and older for epilepsy 12 and older for headache	Start 25mg qam/50mg qhsMax dose 100mg/day	Limited evidence of effectiveness	Cognitive slowing
Setmelanotide	 Recently approved for obesity caused by mutations in the MC4R 	 >= 6 years of age with POMC deficiency, PSK1 	1-3 mg/day given subcutaneously	• Weight loss of 12- 25%	Injection site reaction Nausea
	pathway & leptin deficiency or leptin	deficiency, LEPR			
	receptor deficiency	confirmed by genetic testing			
Phentermine and Topiramate	See above for mechanisms of action	Combination medication is approved for weight loss in adults. Recent data support BMI reduction in adolescents 12-17 years of age with documented history of failure to lose sufficient weight or maintain weight loss in a lifestyle modification program. (mean age	7.5mg/46mg • High dose; 15 mg/92mg	BMI percent change at 56 weeks was -10.44 (high dose; 15mg/92mg) and -8.11 (mid-dose; 7.5 mg/46 mg) as compared with placebo Treatment also improved HDL and TG cholesterol profiles	high- to mid-dose range were no more common tha placebo.

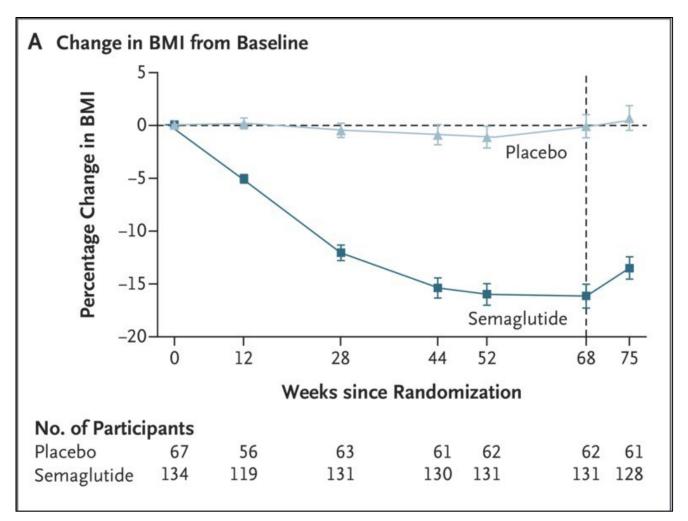
Minimal weight loss Reasonable if DM or pre-DM

Stimulant medicine with a greater risk of causing side effects than meaningful weight loss

Niche drug for genetic obesity caused by a rare single-gene mutation

More of the same ...

Semaglutide in Adolescents with Obesity





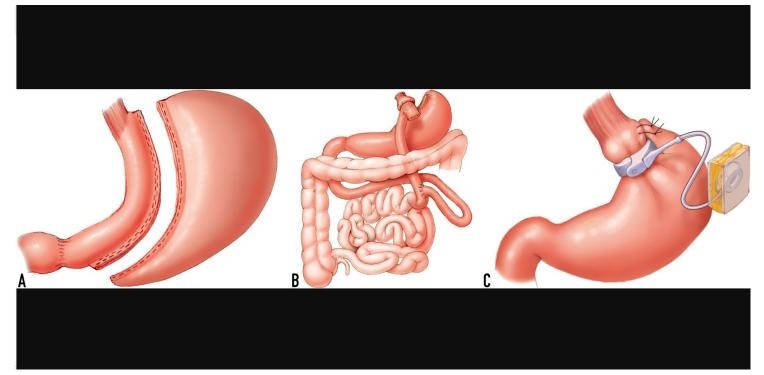


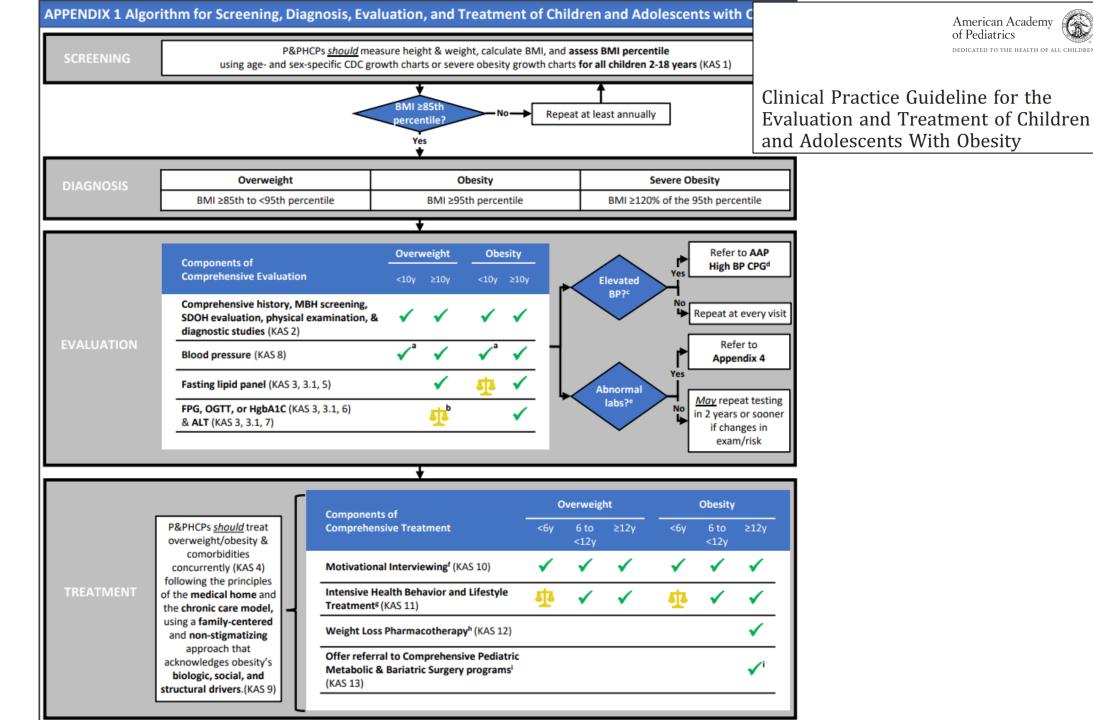
Treatment

Clinical Practice Guideline for the Evaluation and Treatment of Children and Adolescents With Obesity

KAS 13: Bariatric Surgery Grade C

 Offer referral adolescents 13 y and older with severe obesity (BMI ≥ 120% of the 95th percentile for age and sex) evaluation for metabolic and bariatric surgery





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Case of LG

- 11 yo girl presents for Well Child Check
- Here with her grandfather, who is her guardian
- Only concern is mild, intermittent abdominal pain for which she went to the ED last month. A CT scan was "normal" per her grandfather.
- Last seen 1 year ago for primary care
 - Diet and exercise recommendations made
- She reports some bullying at school
- Screened negative for depression

Case of LG

• PMHx:

- PTSD related to childhood neglect, recent deaths in family. Treated with Risperidone for about 1 year, ending March 2022
 - Last saw mental health 9 months ago

Social History:

- Lives on a rural reservation in New Mexico
- In 5th grade, failing several classes
- In grandparents custody since 3 months of age
- Lives with her grandfather, uncle, aunt, and cousin
 - Her father died of COVID 2021, Mother's whereabouts are unknown, grandmother (primary guardian) died last year
- Private interview does not reveal any substance use, sexual activity, abuse, or other concerns.

Case of LG

Family History:

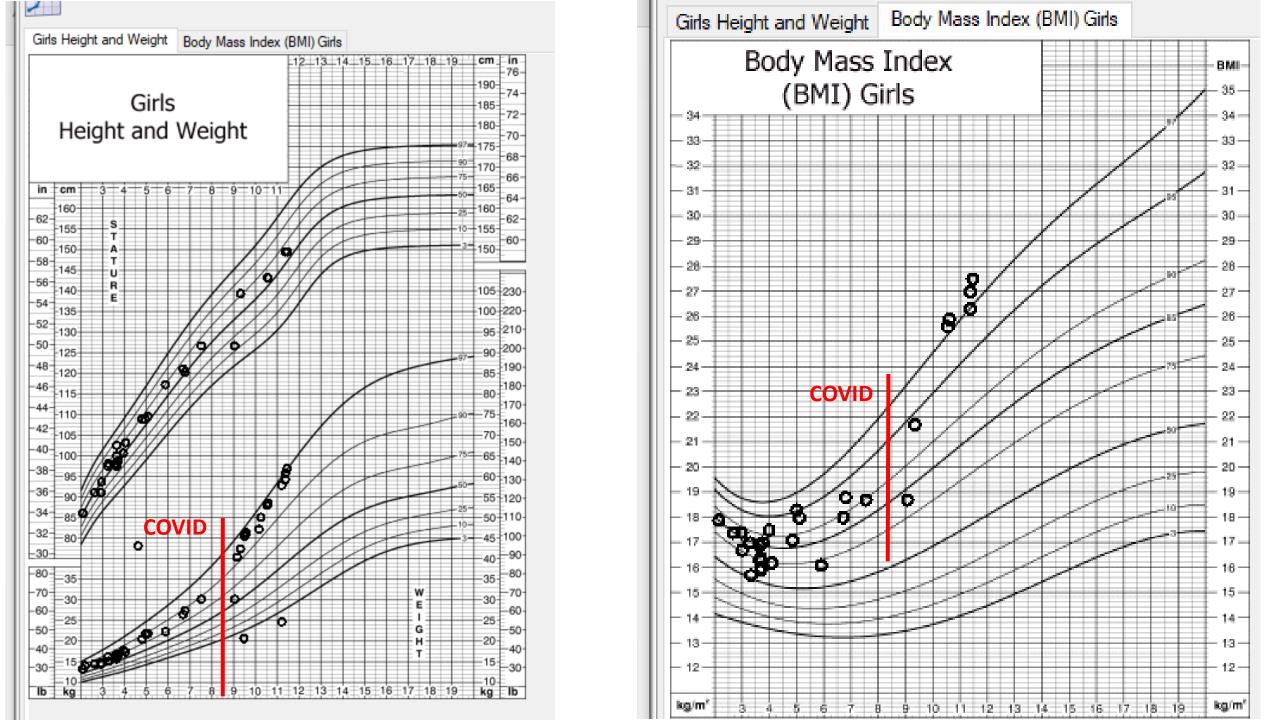
• DM in father, grandmother and grandfather

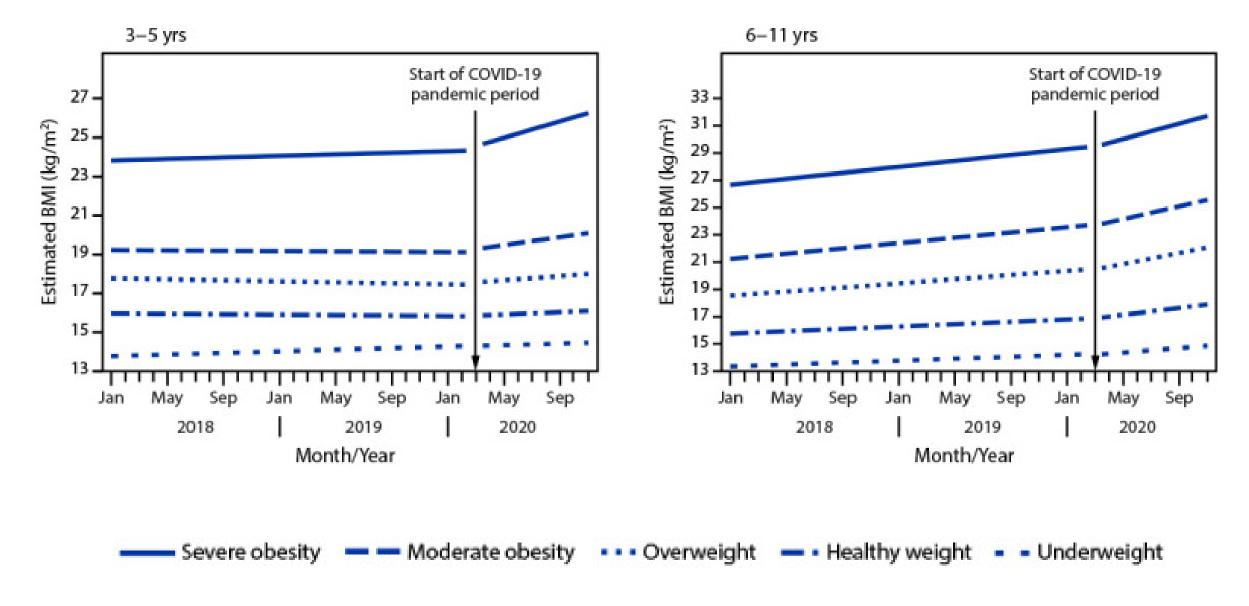
Diet and Exercise:

- Enrolled in local youth sports leagues (basketball, flag football) in the past.
 Not in the past two years.
- Grandfather reports that he buys fruits and vegetables, "but she won't eat them." "She spends a lot of time on her phone."

Physical Exam:

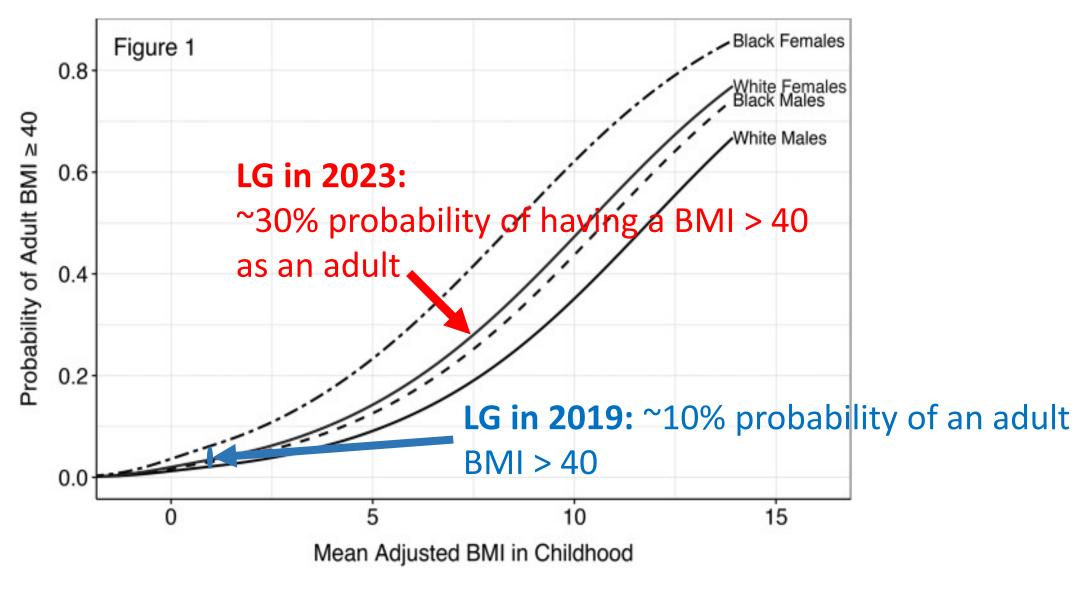
- Ht: 149.6 cm, Wt: 61.7 Kg, BMI: 27.5, BP= 106/73 (Diastolic= 86 percentile)
- Physical exam significant for acanthosis nigricans



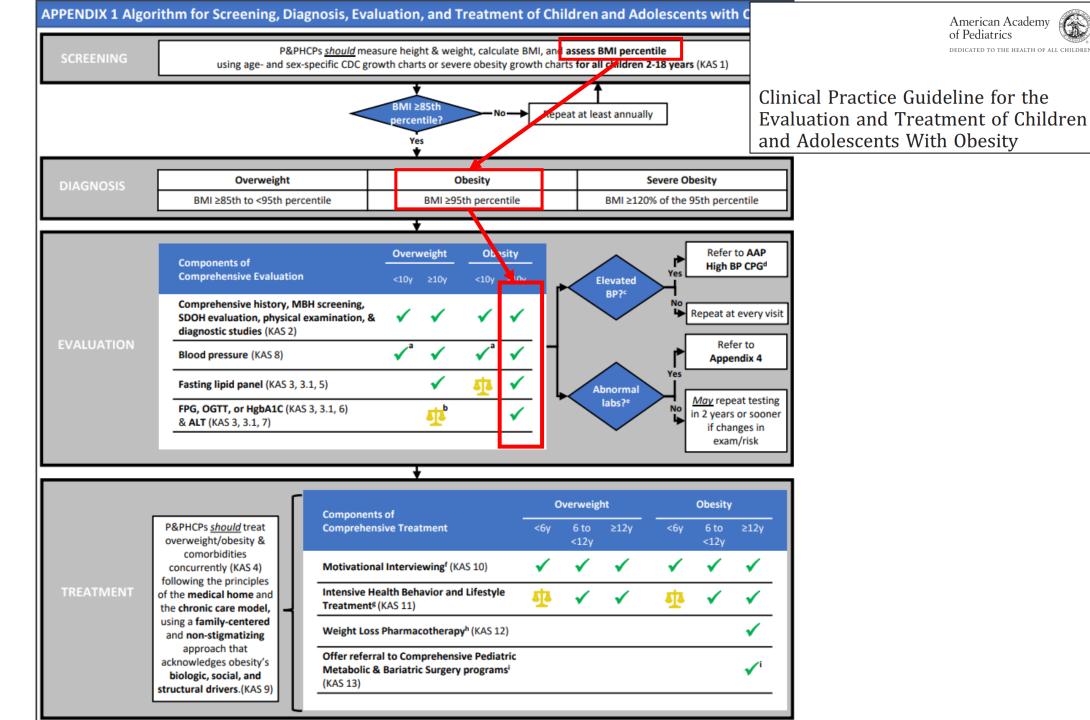


Lange SJ, Kompaniyets L, Freedman DS, et al; DNP3. Longitudinal trends in body mass index before and during the COVID-19 pandemic among persons aged 2-19 years—United States, 2018-2020. MMWR Morb Mortal Wkly Rep. 2021;70(37):1278–1283

Risk of Adult Obesity based on Childhood BMI



Freedman DS, Lawman HG, Galuska DA, Goodman AB, Berenson GS. Tracking and Variability in Childhood Levels of BMI: The Bogalusa Heart Study. Obesity (Silver Spring). 2018 Jul;26(7):1197-1202. doi: 10.1002/oby.22199. Epub 2018 Jun 11. PMID: 29888429; PMCID: PMC6014905.



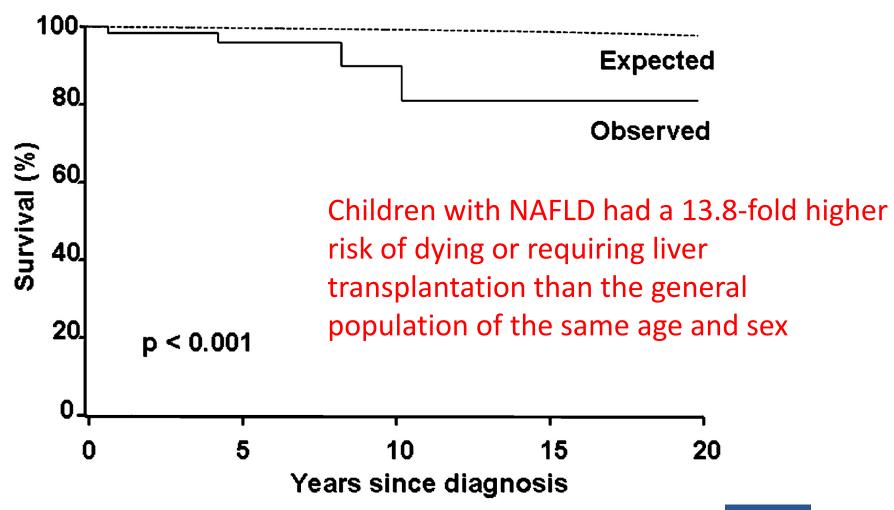
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Recommended Labs

- Ordered over a month ago ... not done yet
- From ED visit on two months ago:
 - HgbA1c: 5.5%
 - Random glucose: 96
 - ALT: 54 (0-33)
 - AST: 45 (0-32)
 - CT Scan of the abdomen and pelvis
 - "Diffuse hepatic steotosis"

Kaplan–Meier survival curve of children with non-alcoholic fatty liver disease (NAFLD) (n=66) as compared to the general United States population of same age and sex.

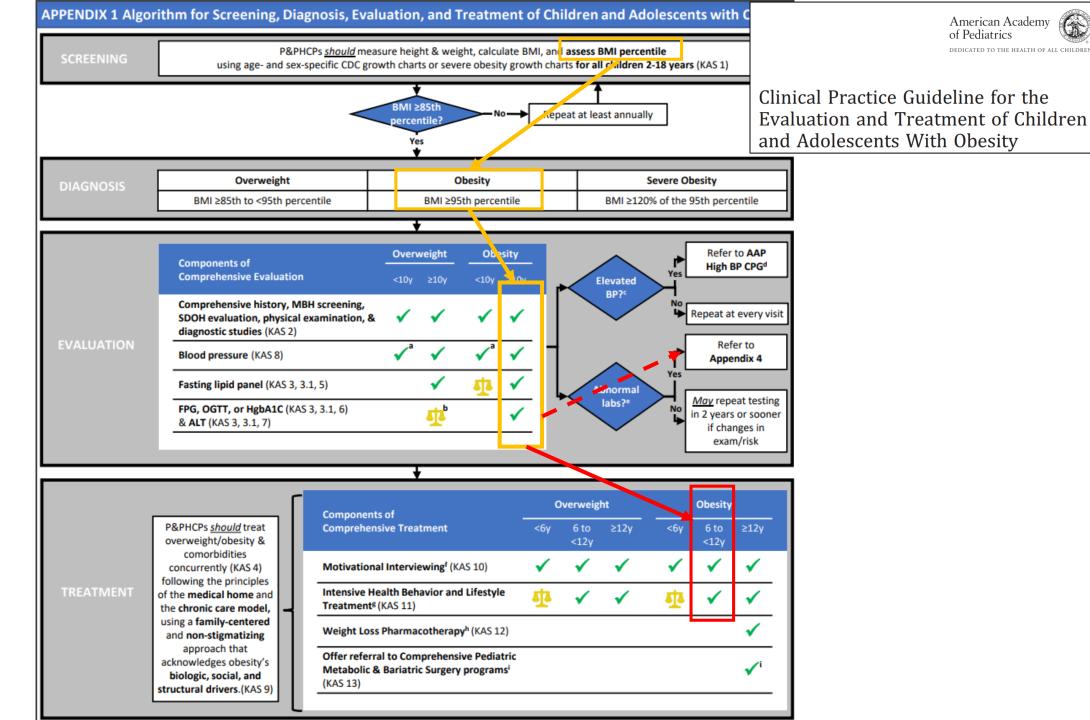


A E Feldstein et al. Gut 2009;58:1538-1544



How can we do the most good for this child?

- 11 year old girl with obesity and significant medical complications
- Any treatment plan will need to address several factors:
 - Trauma and grief
 - Disrupted caregiver support due to death and abandonment
 - Cared for by her grandfather after the death of her grandmother last year
 - PTSD
 - Rural setting with few resources to promote fitness
 - Home and school environment with unhealthy food choices
 - Uncertain expectations about health and the future



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Can I find an IHBLP?



Intensive Health Behavior and Lifestyle Treatment Programs

Home / Patient Care / Institute for Healthy Childhood Weight / Clinical Practice Guideline for the Evaluation and Treatment of Children and Adolescents With Obesity / Intensive Health Behavior and Lifestyle Treatment Programs

Intensive Health Behavior and Lifestyle Treatment (IHBLT) is an evidence-based tool that is part of comprehensive obesity treatment and is recommended in the AAP CPG for children aged 6 and older (Grade B evidence) and 2-5 years of age (Grade C) with overweight or obesity. Learn more about the program below and find the best program for you.

If your program meets the inclusion criteria and you are interested in having it reviewed for consideration to appear on this site, please complete the program survey or **contact us**.

About IHBLT

Learn more about IHBLT and why it is recommended for comprehensive obesity treatment.

Inclusion Criteria

Review the requirements a program must meet in order to be included in the list of IHBLT programs.

Help Find the Best Program for You

Find out the best programs that may be best for you.

IHBLT Programs

See a list of all IHBLT Programs.

https://www.aap.org/en/patient-care/institute-for-healthy-childhood-weight/clinical-practice-guideline-for-the-evaluation-and-treatment-of-pediatric-obesity/intensive-health-behavior-and-lifestyle-treatment-programs/ihblt-programs/

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Professional Education Clinical Supports Policy Parent and Patient Resources Results Featured Resources

These are descriptions of programs that could be

used to replicate one of these evidence-based

These are not resources for patients.

IHBLT Programs

Home / Patient Care / Institute for Healthy Childhood Weight / Clinical Practice Guideline for the Evaluation and Treatment of Children and Adolescents With Obesity / Intensive Health Behavior and Lifestyle Treatment Programs / IHBLT Programs



Curated list of programs with overviews, contact info, etc.

- Bright Bodies Healthy Lifestyles Program (BBHLP)
- **Building Healthy Families (BHF)***
- Fit Together
- Family-based Behavioral Treatment (FBT)*
- Healthy Weight and Your Child (HWYC)
- Healthy Weight Clinic (HWC)*
- The MEND (Mind, Exercise, Nutrition...Do It!) and Healthy Together Programs (MEND)

*All of the CORD 3.0 programs are working through a current funding cycle to address implementation strategies and their ability to spread broadly. Each program has varying capacity to address broad dissemination and implementation at this point in time, please contact the programs to learn more.

programs.

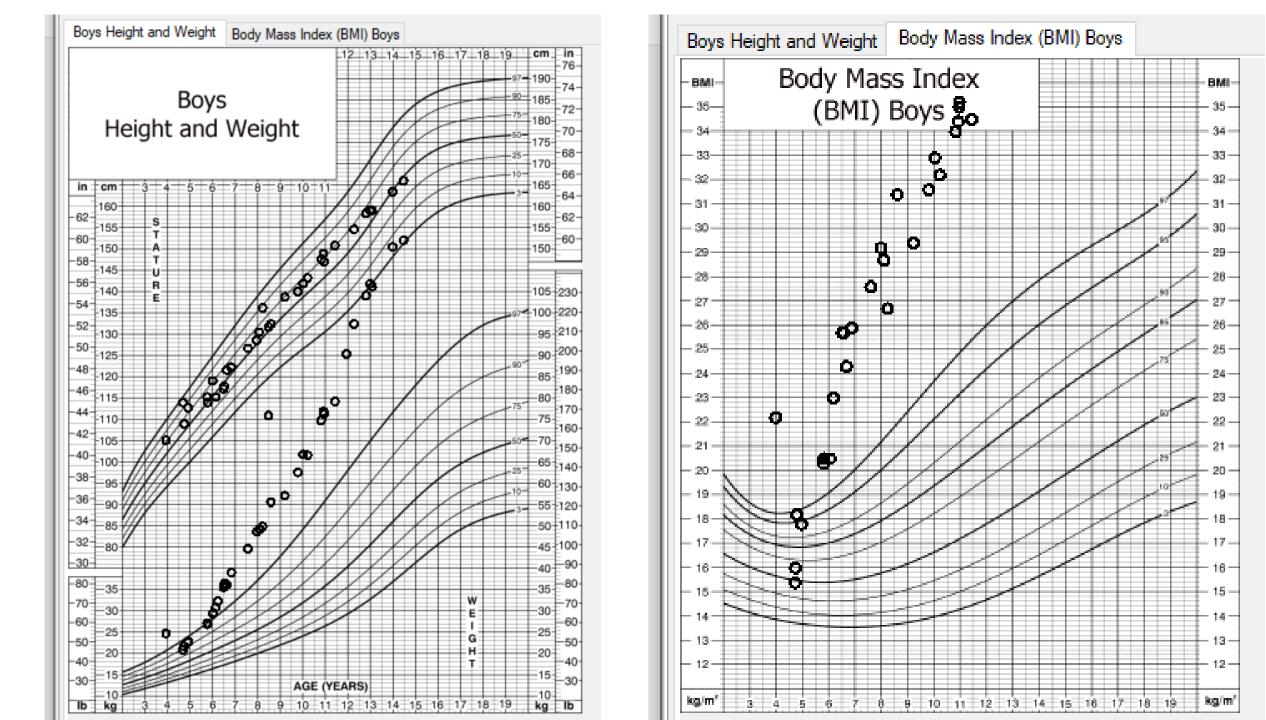
If your program meets the inclusion criteria and you are interested in having it reviewed for consideration to appear on this site, please complete the program survey or contact us.

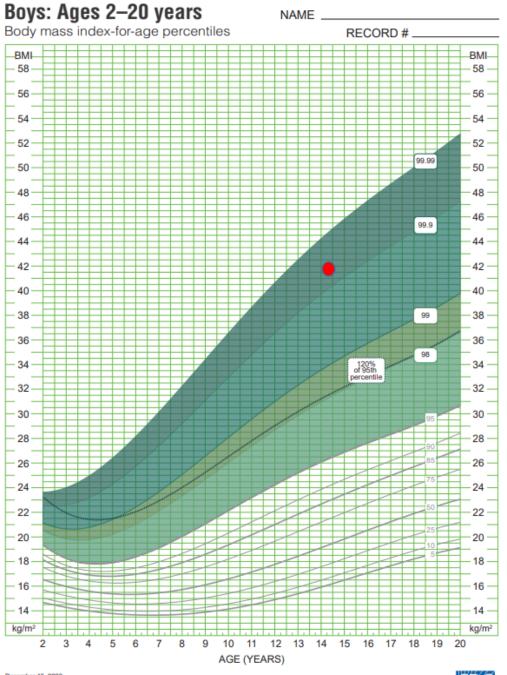




Case of CD

- 14 yo boy with severe Obesity presents for primary care visit
- Here with his mother.
- He is concerned about developing Diabetes
- Seen by the University's "Healthy and Fit Children's Clinic" five months ago (after a 16 month waitlist)
 - Recommended a sleep study (not scheduled)
 - Dietary and exercise counseling provided
 - Meds and bariatric surgery were not noted in the clinic notes.
 - "FU in 3 months." Family has not received an appointment.





December 15, 2022
Data source: National Health Examination Survey and National Health and Nutrition Examination Survey.
Developed by: National Center for Health Statistics in collaboration with National Center for Chronic Disease Prevention and Health Promotion, 2022.



CD: 14 year old male

BMI= 42

BP= 130/85 (95%

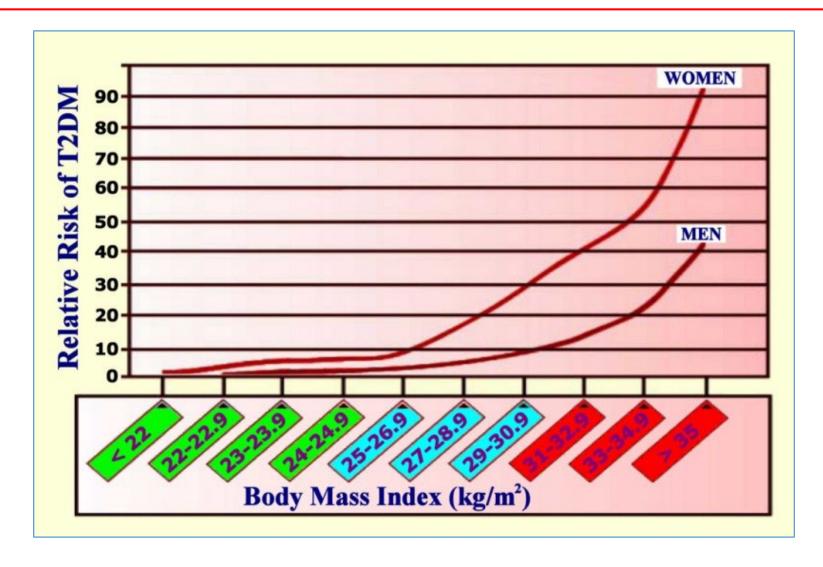
systolic)

A1c = 6.4

HDL 37 (> 40)

ALT = 67 (0-33)

What's at stake in childhood obesity?

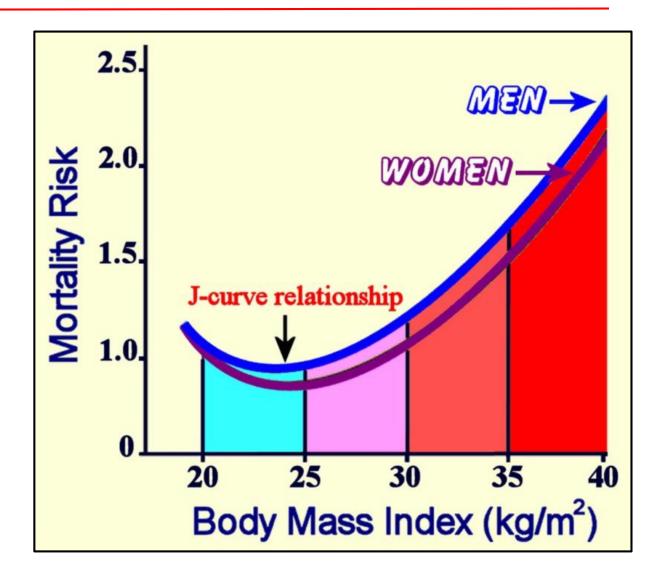


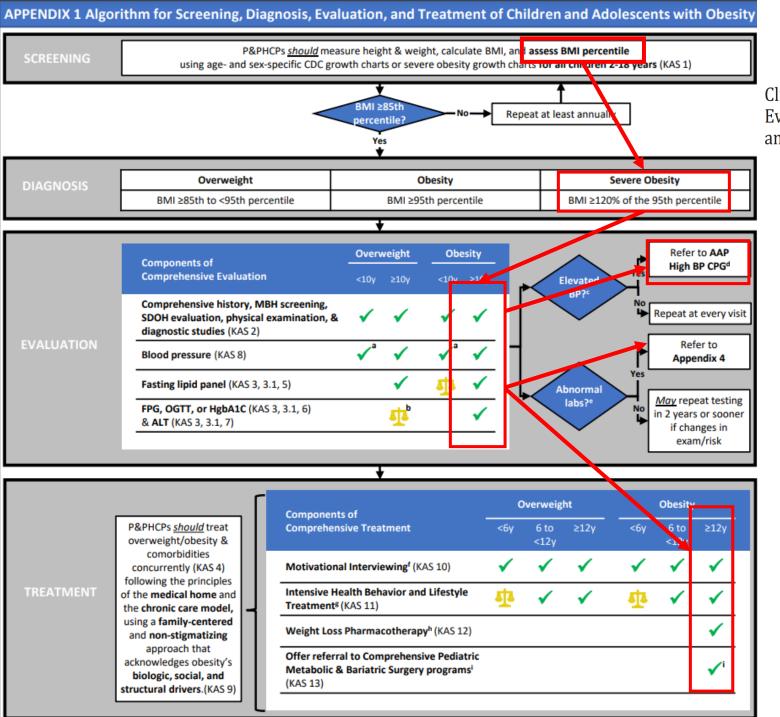
^{1.} Kyrou I, Randeva HS, Tsigos C, et al. Clinical Problems Caused by Obesity. [Updated 2018 Jan 11]. In: Feingold KR, Anawalt B, Blackman MR, et al., editors. Endotext. Available from: https://www.ncbi.nlm.nih.gov/sites/books/NBK278973/

What's at stake in childhood obesity?

Obesity associated with

- -diabetes
- -hypertension
- -nonalcoholic fatty liver dz
- -dyslipidemia
- -obstructive sleep apnea
- -asthma
- -orthopedic complications
- -anxiety, depression, bullying
- -shorter life







Clinical Practice Guideline for the Evaluation and Treatment of Children and Adolescents With Obesity

Case of CD

- 14 year old boy with severe obesity and numerous comorbidities, including HTN, pre-DM, NAFLD.
- He lives in a remote Native American reservation without access to IHBLT, and his family is not interested in family-wide changes to nutrition.
- Will more education and MI alone will alter his trajectory?
 - In 10 years, will CD's health be better or worse without medications and/or bariatric surgery?



- The growing pandemic of obesity is a societal responsibility caused, in part, by devaluing what we know leads to physical and emotional health.
 - "Problems cannot be solved with the same mind set that created them."
 - Albert Einstein
- Medications and bariatric surgery do not solve the problem for children with obesity.
 - At best, they offer a less toxic alternative
 - At worst, they may actually contribute to the trauma that underlies obesity.

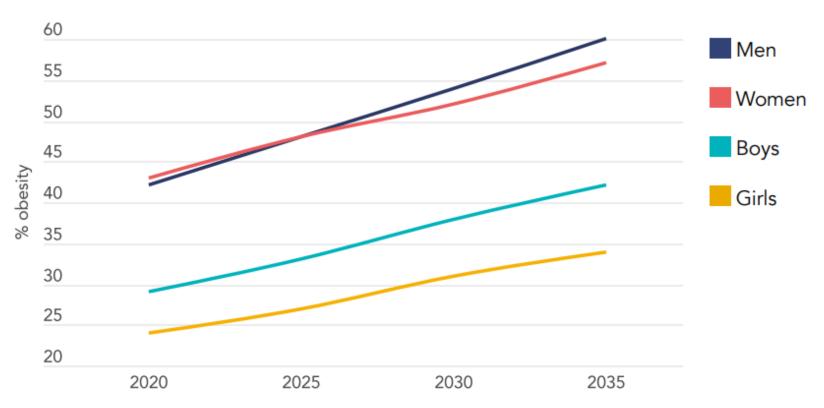
- Is Grade C evidence really good enough to recommend surgical changes to the anatomy of an adolescent??
 - How realistic is bariatric surgery for AIAN adolescents living in remote reservations anyway?
- Can meds really help solve this problem?
 - GLP-1 agonists can cost ~ \$1,000 per month
 - Will teens really take a medication that will likely include side effects and needles?
 - Lifelong therapy is probably necessary



United States of America

ADULTS WITH OBESITY 2035 58% VERY HIGH

PROJECTED TRENDS IN THE PREVALENCE OF OBESITY (BMI ≥30kg/m²)



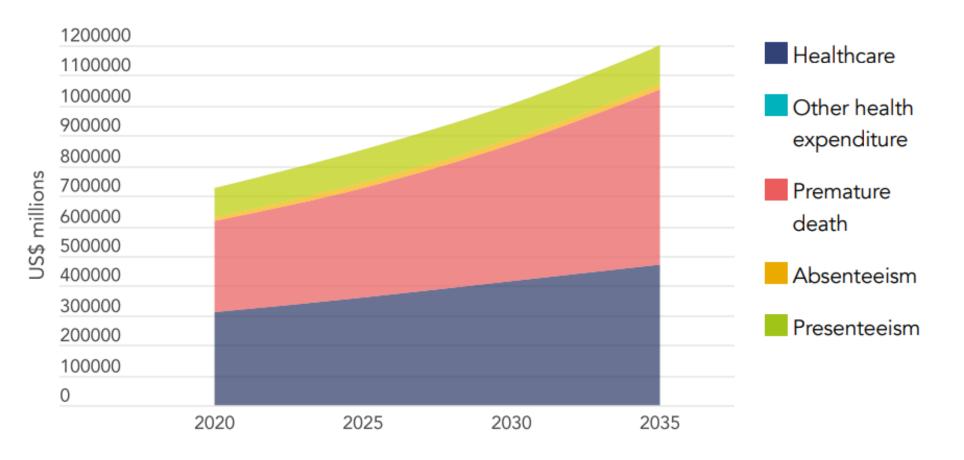
ANNUAL INCREASE IN ADULT OBESITY 2020–2035

2.1%

HIGH

https://www.worldobesityday.org/resources/entry/world-obesity-atlas-2023

PROJECTED ECONOMIC IMPACT OF OVERWEIGHT (BMI ≥25kg/m²)



ANNUAL INCREASE IN CHILD OBESITY 2020–2035

2.4%

HIGH

OVERWEIGHT
IMPACT ON
NATIONAL GDP
2035
4.0%
VERY HIGH

• The guideline's emphasis on IHLBT feels out of touch



- The Guidelines cite racism and ACEs as *causes* of obesity, but they do not address this in their <u>treatment</u> recommendations.
 - Recommended treatment may even exacerbate ACEs
 - Our current healthcare system does not have a way for easily providing this type of care.

"Every system is perfectly designed to get the result that it does."

- W. Edwards Deming

Top perceived barriers to effective obesity treatment Lack of political will, interest and action Lack of training and trained HCPs High cost of out of pocket payments Poor health literacy & behaviour Obesity not recognised as a disease Lack of financial investment into obesity Food cost & availability Cultural norms/traditions Lack of evidence, monitoring and research Based on findings from over 274 obesity specialists from 68 countries (Leach et al, 2020)

- On the other hand ... these are <u>clinical guidelines</u> for children and adolescents who are in real trouble
 - Focusing only on societal changes will not help the child in front of us.
- In the end, these are complex and sometimes heart wrenching questions that bely easy solutions

Thank you