

An AAP Clinical Practice Guideline



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Faculty and Disclosures



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We have nothing to disclose



Learning Objectives

- Review the Key Elements of the 2023 AAP CPG on Obesity
- Discuss how the guidelines can be implemented in the primary care setting
- Review the comorbidities of obesity
- Discuss treatment approaches for obesity, with a lens inclusive of treating obesity comorbidities

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Obesity is a complex chronic disease

- Obesity is often an indicator of structural inequities like unjust food systems, health inequities and environmental & community factors
- Genetics, obesity-promoting environments, life experiences combined with inequities and structural barriers to healthy living all contribute to overweight and obesity

Social and Environmental Risk -**Context for Comorbidity Risk**

We now recognize that race is not a biological construct.

So the association between:

- ethnicity,
- race,
- · obesity, and
- comorbidities



most likely reflects the impact of epigenetic, social, and environmental factors, such as SDoHs (i.e. limited food access, low SES, exposure to structural racism, neighborhood deprivation, etc.)

Methodology – Scope of the Review

Key Question 1

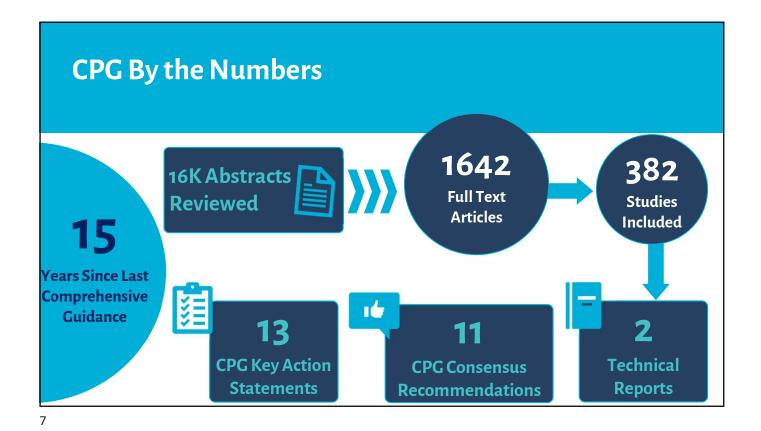
What are clinic-based, effective treatments for obesity?

Key Question 2

What is the risk of comorbidities among children with obesity?

Original search period ended April 6, 2018. An additional search was conducted covering the time period April 7, 2018 -February 15, 2020.

- 1642 Full text articles reviewed 382 Studies included



New from previous recommendations

NEW

- Offer treatment early and immediately there is no benefit to watchful waiting
- Treat obesity and comorbid conditions concurrently
- There are **multiple evidence-based strategies** that can be used collectively to deliver intensive & tailored obesity treatment
- Structured, supervised weight management interventions decrease current & future eating disorder symptoms

Obesity Bias

- Bias is prevalent in the setting of healthcare and can be unconscious
- Individuals who have obesity have suffered years of bias/stigma in healthcare settings, school, and in home environments
- You can take an on-line test to help you understand your own bias

Take a Test (harvard.edu)

Internalized weight bias should be recognized and is treatable

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Communication of Weight Status – this can be hard and charged

A couple key things to keep in mind......

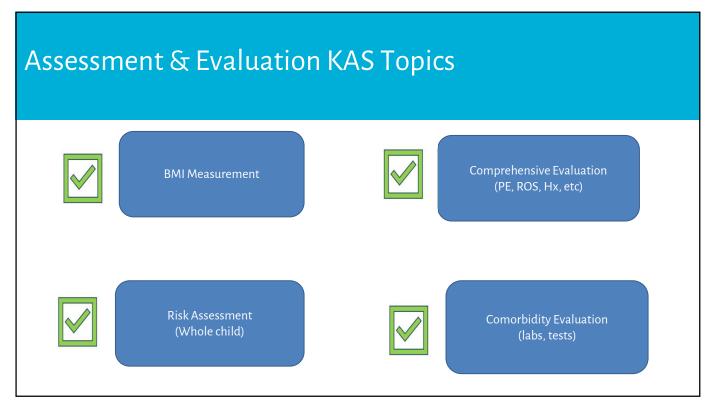
- It can be very helpful to ask permission to discuss growth concerns
- Using extended growth curves and discussion of health risk can help switch the conversation from weight to health
- Using person first language is important describing a patient as having obesity, not being obese
- Your choice of words is critical and having phrases on hand might be helpful
 - o "your weight might be putting you at risk for health concerns",
 - o "it looks like you might be gaining weight faster than you are growing tall"

Allowing the family to have a safe space to understand and process the complexity of obesity and its chronicity *requires tact, empathy, and humility*. Achieving this goal enables the patient and family to gain the knowledge and understanding needed to recognize risk factors in their environment and behaviors, to honor cultural preferences, and to institute changes independently as well as under the guidance of a trusted and well-trained advocate—such as pediatricians and other PHCPs

-AAP Clinical Practice Guideline

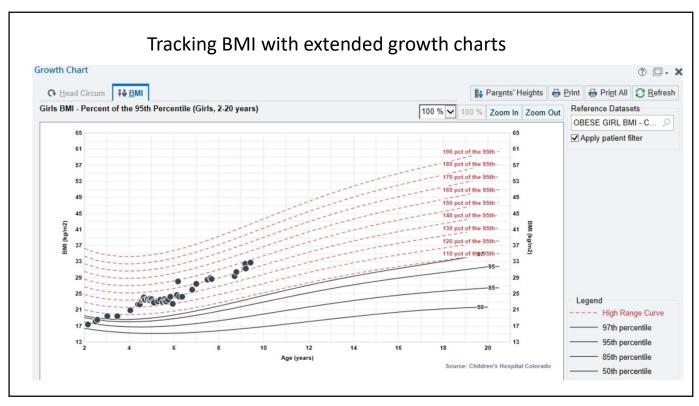
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BMI Measurement

KAS 1. Pediatricians and other PHCPs should measure height and wt, calculate BMI, and assess BMI percentile using age- and sex-specific CDC growth charts or growth charts for children with severe obesity at least annually for all children 2 to 18 y of age to screen for overweight (BMI ≥85th percentile to <95th percentile), obesity (BMI ≥95th percentile), and severe obesity (BMI ≥120% of the 95th percentile for age and sex).



Evaluate for Comorbid Conditions

KAS 2. Pediatricians and other PHCPs should evaluate children 2 to 18 y of age with overweight (BMI ≥85th percentile to <95th percentile) and obesity (BMI ≥95th percentile) for obesity-related comorbidities by using a comprehensive patient history, mental and behavioral health screening, SDoH evaluation, physical examination, and diagnostic studies.

Additional evaluation considerations

- Social history
- Nutrition and PA history
- Assessment of disordered eating and behavioral and mental health
- Physical Examination
- Assessment of Readiness to change

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Comorbidities Addressed Include Hypertension T2DM & Prediabetes Dyslipidemia

Lab Evaluation

KAS 3. In children 10 y and older, pediatricians and other PHCPs should **evaluate for lipid abnormalities, abnormal glucose metabolism, and abnormal liver function** in children and adolescents **with obesity** (BMI ≥95th percentile) and for **lipid abnormalities in children and adolescents with overweight** (BMI ≥85th percentile to <95th percentile).

KAS 3.1. In children 10 y and older with overweight (BMI ≥85th percentile to <95th percentile), pediatricians and other PHCPs may evaluate for abnormal glucose metabolism and liver function in the presence of risk factors for T2DM or NAFLD. In children 2 to 9 y of age with obesity (BMI ≥95th percentile), pediatricians and other PHCPs may evaluate for lipid abnormalities.

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Concurrent Treatment KAS

KAS 4: Pediatricians and other PHCPs should <u>treat</u> children and adolescents for overweight (BMI ≥85th percentile to <95th percentile) or obesity (BMI ≥95th percentile) and <u>comorbidities concurrently</u>.

Laboratory and Diagnostic Screening KAS

Dyslipidemia

KAS 5. Pediatricians and other PHCPs <u>should evaluate</u> for <u>dyslipidemia</u> by obtaining a <u>fasting lipid panel</u> in children <u>10 y and</u> <u>older with overweight</u> (BMI ≥85th percentile to <95th percentile) and obesity (BMI ≥95th percentile) and <u>may evaluate</u> for dyslipidemia <u>in children 2 through 9 y of age with obesity</u>.

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Laboratory and Diagnostic Screening KAS

Prediabetes and Diabetes Mellitus

KAS 6. Pediatricians and other PHCPs should evaluate for prediabetes and/or diabetes mellitus with fasting plasma glucose, 2-h plasma glucose after 75-g oral glucose tolerance test (OGTT), or glycosylated hemoglobin (HbA1c)

Laboratory and Diagnostic Screening KAS

NAFLD

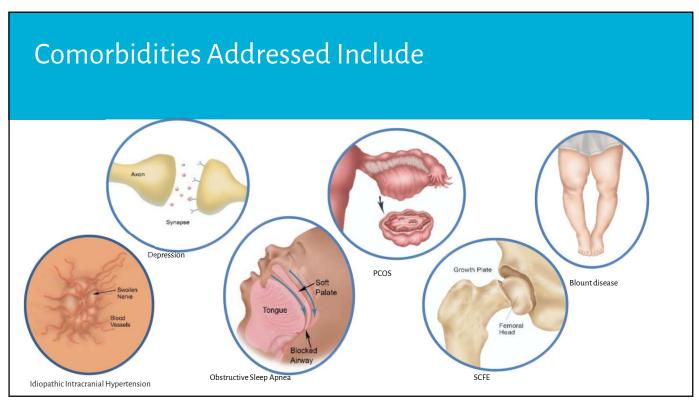
KAS 7. Pediatricians and other PHCPs should evaluate for NAFLD by obtaining an alanine transaminase (ALT) test.

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Laboratory and Diagnostic Screening KAS

Hypertension

KAS 8. Pediatricians and other PHCPs <u>should evaluate</u> for <u>hypertension</u> by <u>measuring blood pressure</u> at every visit starting at 3 y of age in children and adolescents <u>with overweight</u> (BMI ≥85 to <95th percentile) and <u>obesity</u> (BMI ≥95th percentile).



Consensus Recommendations for Other Comorbid Conditions

Comorbid Condition	Consensus Recommendation
OSA	 Obtain a sleep history, including symptoms of snoring, daytime somnolence, nocturnal enuresis, morning headaches, and inattention, among children and adolescents with obesity to evaluate for OSA. Obtain a polysomnogram for children and adolescents with obesity and at least one symptom of disordered breathing.
PCOS	• Evaluate for menstrual irregularities and signs of hyperandrogenism (ie, hirsutism, acne) among female adolescents with obesity to assess risk for PCOS.
Depression	• Monitor for symptoms of depression in children and adolescents with obesity and conduct annual evaluation for depression for adolescents 12 years and older with a formal self-report tool.
Blount	• Perform a musculoskeletal review of systems and physical examination (eg, internal hip rotation in growing child, gait) as part of their evaluation for obesity.
SCFE	• Recommend immediate and complete activity restriction, non–weight-bearing with use of crutches, and refer to an orthopedic surgeon for emergent evaluation, if SCFE is suspected. PHCPs may consider sending the child to an emergency department if an orthopedic surgeon is not available.
IIH	• Maintain a high index of suspicion for IIH with new-onset or progressive headaches in the context of significant weight gain, especially for females.





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. While 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 overcoming these barriers, guidance on a number of factors related to barriers to treatment, such as health [in]equity and multilevel risk factors, have been included in these guidelines.

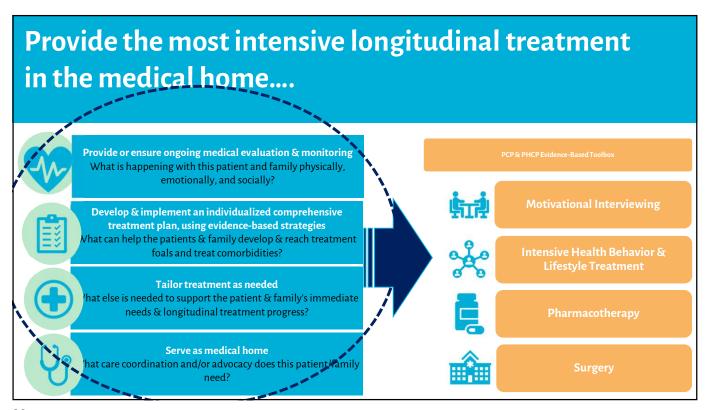
- Doug Lunsford, Family Representative CPG Subcommittee



Comprehensive Obesity Treatment KAS

KAS 9. Pediatricians and other PHCPs **should treat overweight** (BMI ≥85th percentile to <95th percentile) and **obesity** (BMI ≥95th percentile) in children and adolescents, following the principles of the **medical home** and the **chronic care model**, using a **family-centered** and **non-stigmatizing** approach that acknowledges **obesity's biologic, social, and structural drivers.**

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Health & Treatment

Racism

Health Inequities

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Motivational Interviewing KAS

Weight Bias and Stigma

Obesogenic Environments

KAS 10. Pediatricians and other PHCPs **should use motivational interviewing** (MI) to engage patients and families in treating overweight (BMI ≥85th percentile to <95th percentile) and obesity (BMI ≥95th percentile).

Intensive Health Behavior and Lifestyle Treatment KAS

KAS 11. Pediatricians and other PHCPs should provide or refer children 6 y and older (Grade B) and may provide or refer children 2 through 5 y of age (Grade C) with overweight (BMI ≥85th percentile to <95th percentile) and obesity (BMI ≥95th percentile) to intensive health behavior and lifestyle treatment. Health behavior and lifestyle treatment is more effective with greater contact hours; the most effective treatment includes 26 or more hours of face-to-face, family-based, multicomponent treatment over a 3- to 12-mo period

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More about IHBLT WHAT **FORMAT** Health education WHEN Group Skill building Upon diagnosis Individual, or Behavior modification & Both WHO: Patient & family Multidisciplinary DOSAGE treatment team WHERE **CHANNEL** Healthcare setting Longitudinal (3-12 months long) Face-to-face or Community -based setting with At least 26 contact hours Virtual linkage to medical home

When IHBLT is not available

Deliver the best available intensive treatment to all children with overweight and obesity.

Build collaborations with other specialists and programs in their communities.

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Pharmacotherapy

KAS 12. Pediatricians and other PHCPs **should offer adolescents 12 y and older** with obesity (BMI ≥95th percentile) wt loss **pharmacotherapy**, according to medication indications, risks, and benefits, as an **adjunct to health behavior and lifestyle treatment**.

Consensus Recommendation: PHCPs may offer children ages 8 through 11 y of age with obesity wt loss pharmacotherapy, according to medication indications, risks, and benefits, as an adjunct to health behavior and lifestyle treatment.

Prescriber Qualifications

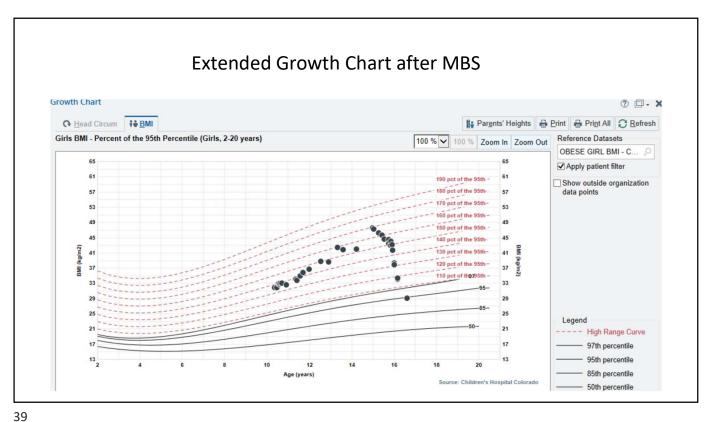
Pediatricians and other PHCPs who prescribe weight loss medications should have knowledge of:

- the patient selection criteria,
- medication efficacy,
- adverse effects, and
- follow-up monitoring guidelines
- injectable medications may require additional teaching for families that is not available in all primary care offices

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Metabolic and Bariatric Surgery

KAS 13: Pediatricians and other PHCPs should offer referral for adolescents 13 y and older with severe obesity (BMI ≥120% of the 95th percentile for age and sex) for evaluation for metabolic and bariatric surgery to local or regional comprehensive multidisciplinary pediatric metabolic and bariatric surgery centers.



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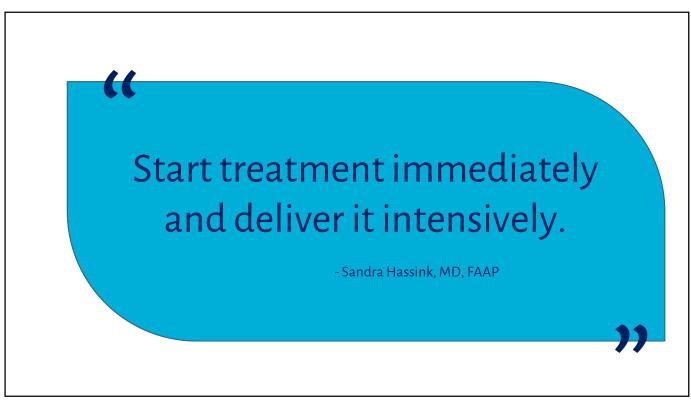
Criteria for Pediatric Metabolic & Bariatric Surgery

TABLE 20

Criteria for Pediatric Metabolic and Bariatric Surgery 733

Weight Criteria	Criteria for Comorbid Conditions Clinically significant disease; examples include but are not limited to T2DM, IIH, NASH, Blount disease, SCFE, GERD, obstructive sleep apnea (AHI >5), cardiovascular disease risks (HTN, hyperlipidemia, insulin resistance), depressed health-related quality of life.
Class 2 obesity, BMI ≥ 35 kg/m ² or 120% of the 95th percentile for age and sex, whichever is lower	
Class 3 obesity, BMI ≥ 40 kg/m² or 140% of the 95th percentile for age and sex, whichever is lower	Not required but commonly present.

AHI, apnea-hypopnea index.



Putting It All Together The Continuum of Obesity Care and the Role of PCP/PHCP ROLE OF THE PEDIATRICIAN/PHCP Diagnosis and Measurement Measure height and weight ✓ Calculate BMI and assess BMI Percentile Communicate BMI and weight status to patient and family Risk Factors Assess individual, structural and contextual risk factors Evaluation Perform comprehensive patient history ✓ Conduct physical exam Evaluate for comorbidities Order relevant diagnostic studies and labs Assess readiness to change ✓ Treat obesity and comorbidities concurrently Treat Comorbidities ✓ Manage children with overweight & obesity following principles of chronic care model & medical home ✓ Deliver non-stigmatizing care Use MI to engage patient and families in addressing overweight and obesity, set goals and promote participation or utilization of local resources or programs ✓ Promptly engage and refer children to intensive HBLT treatment, if available. If intensive HBLT treatment is not available in your area, deliver highest intensity HBLT treatment possible. ✓ Foster self-management strategies ✓ Refer to subspecialists if needed Serve as medical home, coordinate care, advocate for family, & support transition to adult care. Offer weight loss pharmacotherapy, to eligible patients, according to medication indications, risks, and benefits, as an adjunct to HBLT. For eligible patients with severe obesity, offer referral to a local or regional comprehensive multidisciplinary pediatric metabolic and bariatric surgery center for surgical evaluation.

Barriers to Implementation/Adoption of Clinical Practice Guidelines

Personal Factors

- · Physician Knowledge (Awareness & familiarity)
- · Physician Attitudes (Efficacy, skills, motivation, etc.)

Guideline- related Factors

- · Complexity, plausibility, etc.
- · Lack of evidence or clarity
- · Poor layout and lack of applicability

External Factors

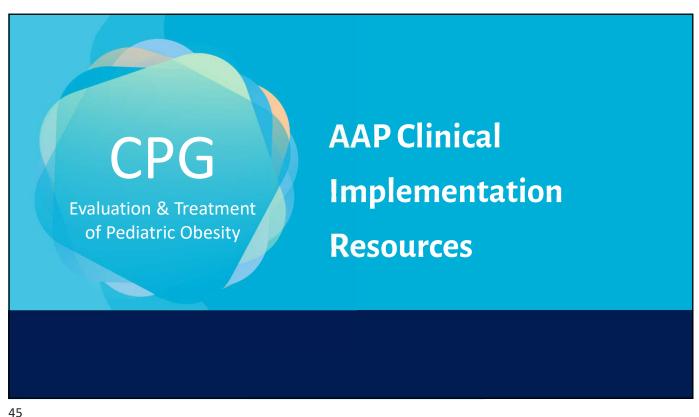
- · Organizational constraints (standards, protocols, quality)
- · Lack of collaboration (multi-professional cross collaboration)
- · Social & clinical norms (consensus)

Barriers and Strategies in Guideline Implementation—A Scoping Review; Healthcare 2016, 4, 36 Florian Fischer, Kerstin Lange, Kristina Klose, Wolfgang Greiner and Alexander Kraemer

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Advocacy Recommendations

- •Promote supportive payment and public health policies that cover comprehensive obesity prevention, evaluation, and treatment
- •Public health agencies, community organizations, health care systems, health care providers, and community members need to partner with each other to expand access to evidence-based pediatric obesity treatment programs
- •Supportive payment and public health policies and partnerships between healthcare providers and key stakeholders are critical to expand access to evidence based care
- •Improved Education and Training for medical learners and practitioner





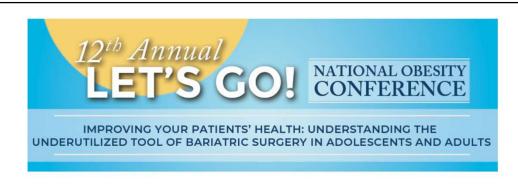


Weight and Wellness Resources



Why Consider Bariatric Surgery for Adolescents?

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Save the Date September 21 & 22, 2023 | zoom

Improving Your Patients' Health: Understanding the Underutilized Tool of Bariatric Surgery in Adolescents and Adults

Conference Objectives:

- Increase knowledge in understanding the physiology, benefits, and efficacy of bariatric surgery
- Understand which patients will benefit from bariatric surgery, the requirements and risks
- Increase confidence to initiate early conversations with patients about bariatric surgery
- Understand support needed to help ensure long-term patient success including integrating other treatments for the chronic disease of obesity

For more details: www.mhesevents.org/LetsGo2023

Thank You

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