

How do I know if my patients are sick with obesity?

Using the AAP algorithm to guide assessment and management of patients with overweight and obesity.

MAAP 2017 Spring Conference Dr. Tory Rogers

Dr. Mike Dedekian

Let's Go! is a program of The Barbara Bush Children's Hospital

Disclosure Statement

Victoria W. Rogers, MD, FAAP

- I have no relevant financial relationships with the manufacturers(s) of any commercial products(s) and/or provider of commercial services discussed in this CME activity.
- \bullet I $\underline{\text{do not}}$ intend to discuss an unapproved/investigative use of a commercial product/device in my presentation.

Disclosure Statement

Michael Dedekian, MD, FAAP

- I have no relevant financial relationships with the manufacturers(s) of any commercial products(s) and/or provider of commercial services discussed in this CME activity.
- I do not intend to discuss an unapproved/investigative use of a commercial product/device in my presentation.

Why a new Algorithm?

- ☐ Children with overweight and obesity may be sick
- □ PCPs need to screen for comorbidities
- ☐ To the extent possible, patients should be cared for in their medical home
- ☐ Providers have asked for guidance

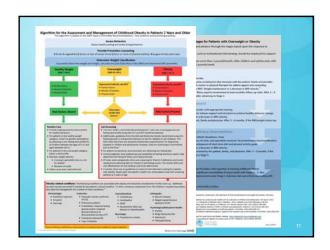


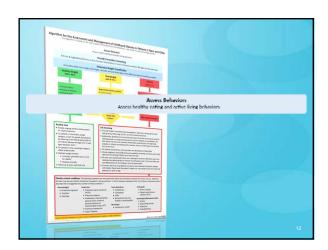
How did we develop the algorithm?

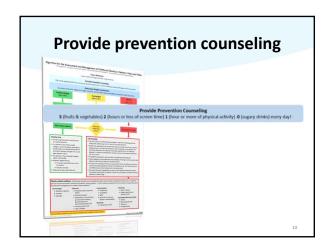
- ☐ Engaged a small group of experts
- ☐ Relied on existing guidelines
- ☐ Utilized new research and new consensus statements

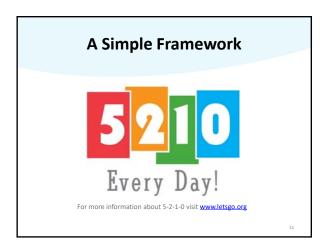
Take Home Messages

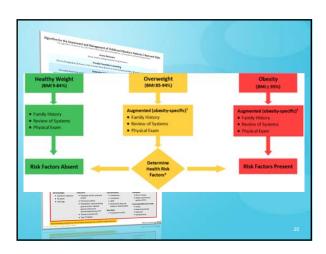
- ☐ Assessment is a critical piece of the puzzle
- ☐ This assessment is doable in the primary care setting
- □ Children who have a BMI ≥ 85% may be sick and may need:
 - Special consideration to determine if they are ill
 - Laboratory tests
 - Additional work-up for comorbidities as determined by positive signs and symptoms and family history



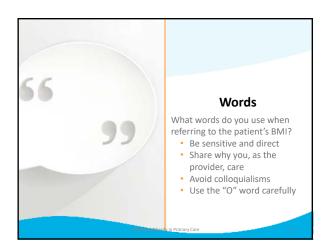


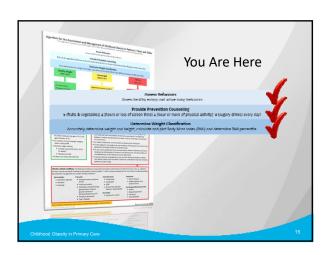


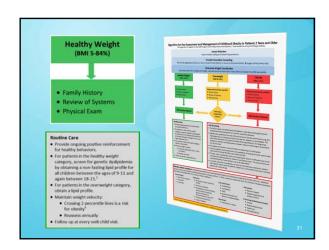


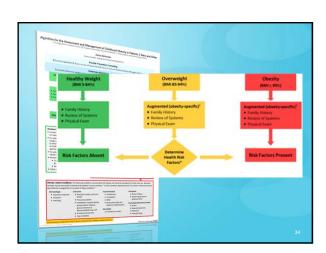














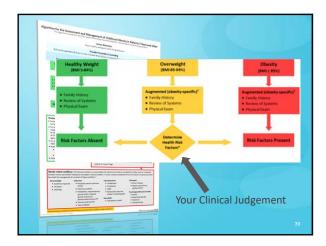
Augmented Obesity-specific Family History Obesity Type 2 Diabetes Hypertension Lipid level abnormalities Heart disease

Barlow S, Expert Committee. Expert committee recommendations regarding prevention, assessment, and treatment of child and adolescent overweight and obesi Summary report. Pediatrics. 2007:120(4):5164-5192.

19

Augmented Obesity-specific Review of Systems Symptoms Probable causes Snoring/sieep disturbances Abdominal pain GERD, constipation, gall bladder disease, NAFLD Menstrual irregularities Polycystic ovary syndrome/Prader-Willi syndrome Hip, Knee, Leg pain SCFE Foot Pain Musculoskeletal stress from weight Polyuria/Polydipsia Type 2 DM Anxlety, school avoidance, social isolation Severe recurrent headaches Pseudotumor cerebri Shortness of breath Asthma Borkow X, Rigert Committee Report committee recommendations regarding prevention, assessment, and treatment of child and adviscent overweight and obesign summery report. Predatics. 2007;120(4):346-3392.

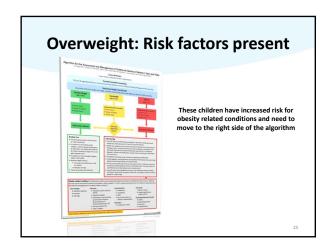
Augmented Obesis	ty-specific Physical Exam		
Findings	Possible Explanations		
Elevated Blood Pressure (correct cuff)	Hypertension on 3 or more occasions		
Short Stature	Underlying endocrine conditions		
Acanthosis nigricans	Increased risk of insulin resistance		
Acne, Hirsutism	Polycystic ovary syndrome		
Skin irritation, inflammation	Intertrigo		
Papilledema, cranial nerve VI paralysis	Pseudotumor cerebri		
Tonsillar hypertrophy	Obstructive sleep apnea		
Goiter	Hypothryroidism		
Wheezing	Asthma		
Tender Abdomen	GERD, gallbladder disease, NAFLD SCFE		
Abnormal gait, limited hip range			
Bowing of tibia	Blount disease		
Small hands and feet, polydactyly	Some genetic syndromes		
Reproductive (Tanner stage, apparent micropenis, undescended testes)	Premature puberty, may be normal penis buried in fat, Prader-Willi syndrome		

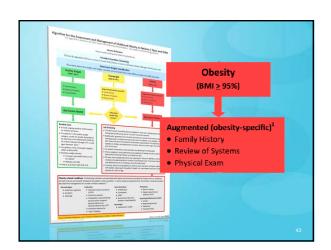


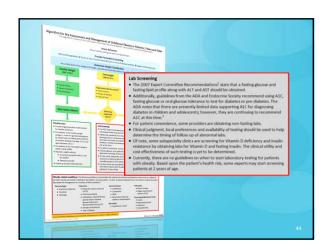
Health Risk Factors: Overweight

- $\hfill \square$ Healthy eating and active living behaviors
- □ Family history
 □ Review of systems
- □ Physical exam

Overweight: Absent risk factors







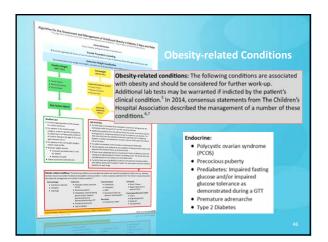
Laboratory Summary Slide

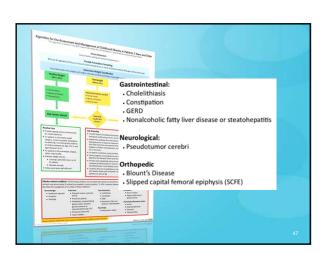
The recommended tests:

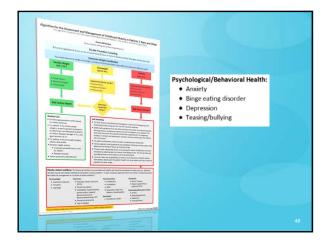
- Fasting Glucose
- Fasting Lipid Panel
- AIT
- AST

Additional laboratory test should be obtained as indicated

28







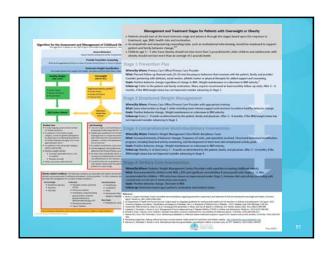
The consensus statements presented in this article may help keep the management of these children in their medical home and provide guidance to those sites that may not have subspecialists available.

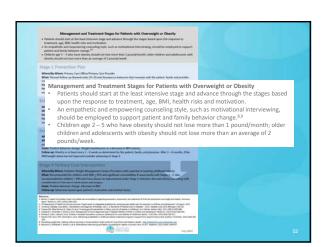
Management and Treatment

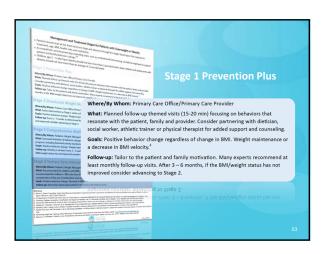
Key Points:

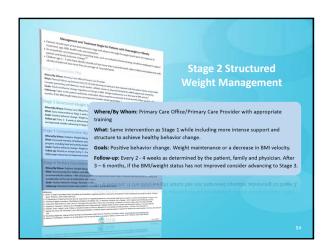
- Not every patient is ready
- Fear tactics don't work
- There are no quick fixes
- Frequent visits over time work
- Small behavior changes can have profound effects
- Motivational Interviewing works
- The stages are a guide
- The Next Steps guide and approach can be useful

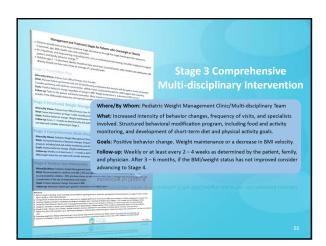
33

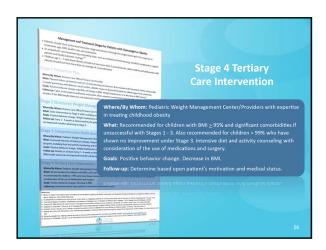












What can be done in a well-child visit?

- Assessment: Is the patient at risk for complications due to his/her weight status?
- ☐ Begin the conversation (tailored to family and risk)
- □ Set the stage
- Gauge patient and family interest in continuing the conversation
- □ Arrange for follow-up:
 - · Are labs necessary?
 - Is a referral necessary?
 - Does the patient and family want to keep talking about what to do to get healthy?

Take Home Messages

- Assessment is a critical piece of the puzzle
- This assessment is doable in the primary care setting
- ☐ Children who have a BMI ≥ 85% may be sick and may need:
 - Special consideration to determine if they are ill
 - Laboratory tests
 - Additional work-up for comorbidities as determined by positive signs and symptoms and family history



