

Clinical overview of the AACE/ACE obesity guidelines

A guide for optimizing your approach to the medical care of patients with obesity

AACE, American Association of Clinical Endocrinologists; ACE, American College of Endocrinology.



Assessment and evaluation

It is important to assess each individual patient thoroughly. A complete diagnosis will include both anthropometric and clinical considerations.

Patient presentation¹

- Screen positive for overweight or obesity BMI ≥25 kg/m² (≥23 kg/m² in some ethnicities)
- Presence of obesity-related disease complication that could be improved by obesity treatment

Diagnosis¹

The diagnosis of a patient can be achieved through the following steps:

Evaluation

- Medical history
- Physical examination
- Clinical laboratory
- Review systems, emphasizing obesityrelated complications
- Obesity history: graph weight vs age, lifestyle patterns/preferences, previous interventions

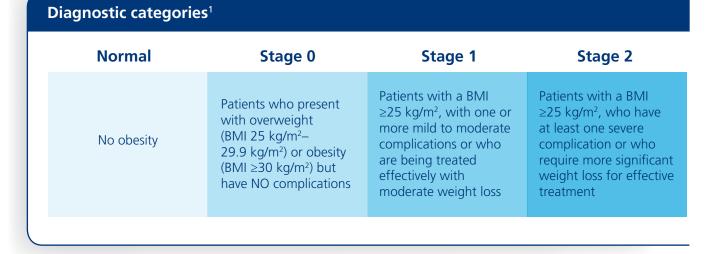
Anthropometric diagnosis

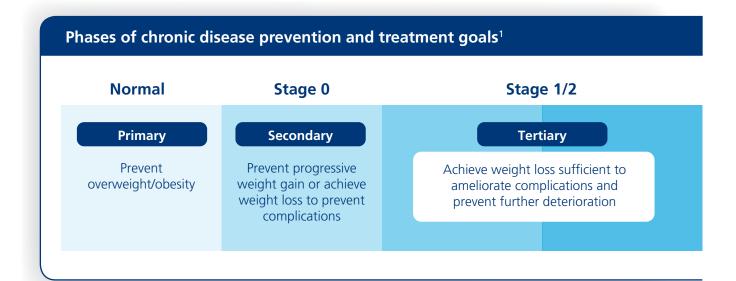
- Confirm that elevated BMI represents excess obesity
- Measure waist circumference to evaluate cardiometabolic disease risk

Clinical diagnosis

- Normal weight: <25 kg/m² or <23 kg/m² in certain ethnicities with waist circumference below regional/ethnic cutoffs
- Overweight: 25 kg/m²–29.9 kg/m²
- Obesity: ≥30 kg/m²

For patients who are overweight or have obesity, a checklist of obesity-related complications is on page 3 of the AACE Algorithm for the Medical Care of Patients With Obesity, ranging from: None > Mild to Moderate > Severe¹







Monica presented with:

- BMI of 35 kg/m²
- Waist circumference of 41 inches
- Hypertension (140/92 mm Hg)
- Prediabetes (A1C level of 6.3%)

Monica is considered to be in the Stage 2 obesity diagnostic category.

A1C, glycated hemoglobin.



BMI, Body Mass Index; AACE, American Association of Clinical Endocrinologists.

Treatment recommendations

Treatment based on clinical judgment ¹						
Weight classification	Treatment					
Normal weight	Healthy meal plan, physical activity, health education, built environment					
Stage 0	Lifestyle/behavioral therapy, consideration of pharmacotherapy if lifestyle therapy alone is not effective					
Stage 1	Lifestyle/behavioral therapy, consideration of pharmacotherapy if BMI is ≥27 kg/m²					
Stage 2	Lifestyle/behavioral therapy, pharmacotherapy (if BMI is ≥27 kg/m²), consideration of bariatric surgery (if BMI is ≥35 kg/m²)					

Once the initial plateau for weight loss has been achieved, re-evaluate the obesity-related complications. If the complications have not been treated to target, then obesity treatment should be intensified or complication-specific interventions need to be employed.¹





Monica is in Stage 2, which calls for a combination of lifestyle/behavioral therapy, pharmacotherapy, and possible bariatric surgery.



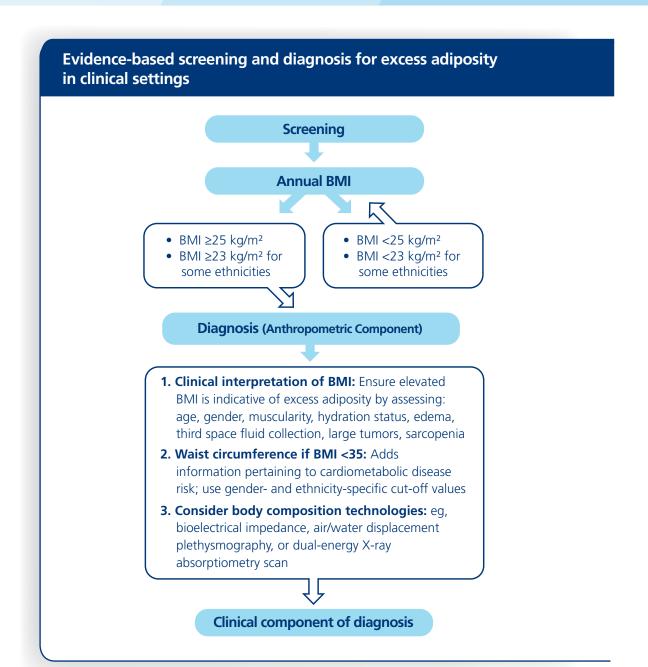
Anthropometric measurement and diagnosis

For patients with BMI ≥25 kg/m², anthropometric diagnosis includes the following steps¹:

1. Clinically interpret BMI

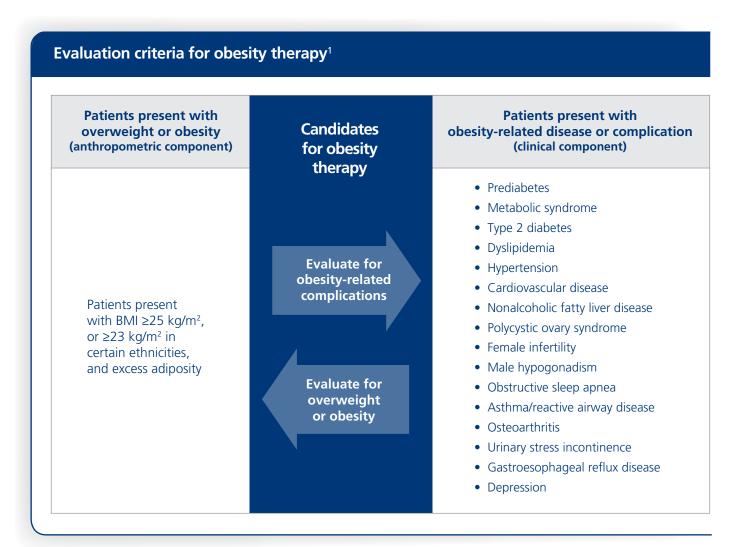
2. Assess waist circumference

3. Consider body composition measurement



The clinical component of diagnosis

Patients may present with either obesity or obesity-related complications. Since complications may often present with overweight or obesity, it's important to check for both.



For more information on how to properly screen patients for obesity-related complications, please refer to page 3 of the AACE Algorithm for Medical Care of Patients with Obesity



Obesity treatment options

After a patient has been diagnosed with overweight or obesity, lifestyle/behavioral modification should be implemented to help prevent further weight gain. Adjunctive treatment with pharmacotherapy for obesity management can also be considered based on clinical judgment.¹

Reasons to initiate anti-obesity medication include¹:

- Failure on lifestyle therapy
- Weight regain on lifestyle therapy
- Presence of obesity-related complications

When to initiate anti-obesity medication in patients with overweight/obesity¹ Initiate anti-obesity medication as **Initiate lifestyle therapy** an adjunct to lifestyle therapy Failure to lose weight **Patients with no complications** Patients who have progressive weight gain or who have not achieved clinical improvement in obesity-related complications on lifestyle therapy alone Patients with mild to moderate complications When lifestyle therapy is anticipated to Weight regain on lifestyle therapy achieve sufficient weight loss to ameliorate Patients with overweight or obesity who are the complication experiencing weight regain following initial success on lifestyle therapy alone **Presence of obesity-related complications** Patients with overweight or obesity who have obesity-related complications, particularly if severe, in order to achieve sufficient weight loss to

For more information on preferred anti-obesity medications and how to use them, see page 6 of the AACE Algorithm for the Medical Care of Patients With Obesity¹

ameliorate the complication

Evaluation-based treatment goals

Treatment goals should be based on a diagnosis that includes both anthropometric and clinical components. They should include intervention/weight loss goals and clinical goals.¹

Associated risk	Weight loss goal	Clinical goal	
Metabolic syndrome	10%	Prevent type 2 diabetes	
Prediabetes	10%	Prevent type 2 diabetes	
Type 2 diabetes	5%–15% or more	 Reduce A1C Reduce number and/or doses of glucose-lowering medications Diabetes remission, especially when diabetes duration is short 	
Dyslipidemia	5%–15% or more	Lower triglycerides and non-HDL-cIncrease HDL-c	
Hypertension	5%–15% or more	 Lower systolic and diastolic blood pressure Reduce number and/or doses of antihypertensive medications 	
Asthma/reactive airway disease	7%–8% or more	 Improve FEV₁ Improve symptomatology 	

A1C, glycated hemoglobin; FEV₁, forced expiratory volume in 1 second; HDL-c, high-density lipoprotein cholesterol.



Based on Monica's diagnosis of obesity with hypertension and prediabetes, a weight loss goal of 10%–15% should be set with the goal of preventing type 2 diabetes, lowering blood pressure, and reducing antihypertensive medications.



Diagnosing and managing obesity

For patients with overweight or obesity, the principal therapeutic target should be to improve patients' health by preventing or treating obesity-related complications. Evaluating patients for risk and obesity-related complications is critical in the development of a therapeutic plan for weight management.¹

Diagnosis and medical management of obesity¹

Diagnosis			Complication-specific staging and treatment		
Anthropometric component (BMI kg/m²)		Clinical component	Disease stage	Chronic disease phase of prevention	Suggested therapy (based on clinical judgment)
<25	<23 in certain ethnicities waist circumference below regional/ethnic cutoffs		Normal weight	Primary	Healthy lifestyle: healthy meal plan/physical activity
25–29.9	23–24.9 in certain ethnicities	Evaluate for presence or absence of adiposity-related complications and severity of complications • Metabolic syndrome • Prediabetes • Type 2 diabetes • Dyslipidemia • Hypertension • Cardiovascular disease • Nonalcoholic fatty liver disease • Polycystic ovary syndrome • Female infertility • Male hypogonadism • Obstructive sleep apnea • Asthma/reactive airway disease • Osteoarthritis • Urinary stress incontinence • Gastroesophageal reflux disease • Depression	Overweight stage 0	Secondary	Lifestyle therapy: Reduced-calorie healthy meal plan/physical activity/behavioral interventions
≥30	≥ 25 in certain ethnicities		Obesity stage 0	Secondary	Lifestyle therapy: Reduced-calorie healthy meal plan/physical activity/behavioral interventions Anti-obesity medications: Consider if lifestyle therapy fails to prevent progressive weight gain (BMI ≥27)
≥25	≥ 23 in certain ethnicities		Obesity stage 1	Tertiary	Lifestyle therapy: Reduced-calorie healthy meal plan/physical activity/behavioral interventions Anti-obesity medications: Consider if lifestyle therapy fails to achieve therapeutic target or initiate concurrently with lifestyle therapy (BMI ≥27)
≥25	≥ 23 in certain ethnicities		Obesity stage 2	Tertiary	 Lifestyle therapy: Reduced-calorie healthy meal plan/physical activity/behavioral interventions Add anti-obesity medication: Initiate concurrently with lifestyle therapy (BMI ≥27) Consider bariatric surgery: (BMI ≥35)

a. All patients with BMI ≥25 have either overweight or obesity stage 0 or higher, depending on the initial clinical evaluation for presence and severity of complications. These patients should be followed over time and evaluated for changes in both anthropometric and clinical diagnostic components. The diagnoses of overweight/obesity stage 0, obesity stage 1, and obesity stage 2 are not static, and disease progression may warrant more aggressive weight-loss therapy in the future. BMI values ≥25 have been clinically confirmed to represent excess adiposity after evaluation for muscularity, edema, sarcopenia, etc.



b. Stages are determined using criteria specific to each obesity-related complication; stage 0=no complication; stage 1=mild to moderate;

c. Treatment plans should be individualized; suggested interventions are appropriate for obtaining the sufficient degree of weight loss generally required to treat the obesity-related complication(s) at the specified stage of severity.

d. BMI ≥27 is consistent with the recommendations established by the US Food and Drug Administration for weight-loss medications.



Reference: 1. Reprinted with permission from American Association of Clinical Endocrinologists © 2016. American Association of Clinical Endocrinologists and American College of Endocrinology comprehensive clinical practice guidelines for medical care of patients with obesity. *Endocr Pract.* 2016;22(suppl 3):1-203.

AACE does not endorse or recommend the use of any specific commercial product, process, or service. This promotional material should not be construed as an endorsement of a product by AACE. Under no circumstances should this material replace the diagnosis, advice, treatment or judgment of medical professionals.

Visit the AACE Obesity Resource Center at <u>obesity.aace.com</u> for more valuable information, including:

- A complete set of resources to help you assist patients with obesity from diagnosis to treatment and management
- How appropriately sized equipment and furnishings can ensure patient comfort
- Where to purchase appropriate equipment and furnishings

Rethink Obesity®

Rethink Obesity® is a registered trademark of Novo Nordisk. RethinkObesity.com is a Novo Nordisk A/S website. Novo Nordisk is a registered trademark of Novo Nordisk A/S.



© 2019 Novo Nordisk Printed in the U.S.A. US190B00039 February 2019