


OBESITY MANAGEMENT IN PRIMARY CARE TRAINING AND CERTIFICATE PROGRAM



Module 3 - PEARLS: Applying History and Physical Exam to Practice

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Goal of This Session

Goal is to help you:

- Utilize learning to integrate diagnostics into clinical practice

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PEARLS From the Module 3 Clinical Webinar

- Diagnosing obesity is an important first step to recognizing and addressing obesity in a clinical setting
 - You can't treat what you don't diagnose
- A thorough assessment is the foundation of effective treatment
- Your history, physical exam, and laboratory findings will help to guide individualized treatment

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PEARLS From the Module 3 Clinical Webinar

4. Use the readiness to change and respect if a patient is not ready to engage
5. Staging an individual's obesity will:
 - Help to understand the extent of the disease
 - Specify how quality of life and functional ability are being impacted (if using EOSS)
 - Help to guide how aggressive treatment should be

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Application to Practice: Insulin Resistance

- Insulin resistance sets off a host of metabolic processes
 - Formation of excess adiposity and inflammation throughout the body
- As IR continues
 - Excess adipose is accumulated and insulin resistance rises
 - Weight gain occurs more easily
 - More difficult time losing weight
 - Worsens insulin resistance

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Application to Practice: Insulin Resistance

HOMA-IR (**Homeostatic Model Assessment for Insulin Resistance**) score can help to calculate insulin resistance

- Designed for research—now often used in clinical practice
- Several studies suggest a cutoff of >2 for any insulin resistance
- MD Calc has a tool for **HOMA-IR**
 - <https://www.mdcalc.com/homa-ir-homeostatic-model-assessment-insulin-resistance>

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Application to Practice: Insulin Resistance

HOMA-IR2

- Several studies suggest a cutoff of >1 for any insulin resistance
- Provides additional information including beta cell function
 - degree of insulin sensitivity (HOMA %S)
 - level of beta cell function (HOMA %B)
- Downloaded to computer as an application
 - <https://www.dtu.ox.ac.uk/homacalculator/download.php>

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HOMA-IR Score

HOMA-IR Scores for these two patients

- Go to: <https://www.mdcalf.com/homa-ir-homeostatic-model-assessment-insulin-resistance>
- Calculate results for:
 - Patient 1: Fasting Insulin 11, Glucose 88
 - HOMA-IR 2.4
 - Patient 2: Fasting Insulin 7, Glucose 84
 - HOMA-IR 2.0

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Application to Practice—Staging

- 64-year-old female: BMI 37.3 PMH: diabetes, HTN, osteoarthritis, anxiety, walks 2 miles a day
- Class 2 (WHO staging is based on BMI)
- Staging
 - AACE
 - EOSS

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Application to Practice—Staging

64-year-old female: BMI 37.3 PMH: diabetes, HTN, osteoarthritis, anxiety, walks 2 miles a day

Class	BMI
1	25 to 29.9 kg/m ²
2	30 to 39.9 kg/m ²
3	BMI > 40 kg/m ²

Class 2 (WHO staging is based on BMI)

Staging

- AACE
 - Stage 2 d/t DM or HTN
- EOSS
 - Stage 2

Step	BMI	Complications	Obesity Related risk factor	Physical symptoms	Psychological symptoms	Functional limitations
0	<25 kg/m ² (generally or overweight) or BMI <25 kg/m ²	No identified complications	None	None	None	None
1	25-29.9 kg/m ²	No one or more mild to moderate complications that can be halted or reduced by losing weight	Subclinical risk factors	Mild - no medical treatment needed	Mild	Quality of life not impacted
2	30-39.9 kg/m ²	Has one or more mild to moderate complications that can be halted or reduced by losing weight	Established OAC with medical intervention	Moderate	Moderate psychological or depression, anxiety, eating disorders	Moderate - QoL is being impacted
3	40-49.9 kg/m ²	At least one severe complication and may require more aggressive treatment	Significant OAC with one or more organ damage (DM, heart failure, diabetes with complications)	Significant (prohibiting OAC)	Significant (impaired mobility, unable to work or complete ADLs)	Significant - QoL is significantly impacted
4	>50 kg/m ²	At least one severe complication and may require more aggressive treatment	Severe	Severe	Severe	Severe

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Staging

38-year-old male: BMI 41 PMH: osteoarthritis, depression, NAFLD, using a cane

Class 3 (WHO staging is based on BMI)

Staging

- AACE
- EOSS

Step	BMI	Complications	Obesity Related risk factor	Physical symptoms	Psychological symptoms	Functional limitations
0	<25 kg/m ² (generally or overweight) or BMI <25 kg/m ²	No identified complications	None	None	None	None
1	25-29.9 kg/m ²	No one or more mild to moderate complications that can be halted or reduced by losing weight	Subclinical risk factors	Mild - no medical treatment needed	Mild	Quality of life not impacted
2	30-39.9 kg/m ²	Has one or more mild to moderate complications that can be halted or reduced by losing weight	Established OAC with medical intervention	Moderate	Moderate psychological or depression, anxiety, eating disorders	Moderate - QoL is being impacted
3	40-49.9 kg/m ²	At least one severe complication and may require more aggressive treatment	Significant OAC with one or more organ damage (DM, heart failure, diabetes with complications)	Significant (prohibiting OAC)	Significant (impaired mobility, unable to work or complete ADLs)	Significant - QoL is significantly impacted
4	>50 kg/m ²	At least one severe complication and may require more aggressive treatment	Severe	Severe	Severe	Severe

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Staging

38-year-old male: BMI 41 PMH: osteoarthritis, depression, NAFLD, using a cane

Class	BMI
1	25 to 29.9 kg/m ²
2	30 to 39.9 kg/m ²
3	BMI > 40 kg/m ²

Class 3 (WHO staging is based on BMI)

Staging

- AACE
 - Stage 2 d/t DM or HTN
- EOSS
 - Stage 3

Step	BMI	Complications	Obesity Related risk factor	Physical symptoms	Psychological symptoms	Functional limitations
0	<25 kg/m ² (generally or overweight) or BMI <25 kg/m ²	No identified complications	None	None	None	None
1	25-29.9 kg/m ²	No one or more mild to moderate complications that can be halted or reduced by losing weight	Subclinical risk factors	Mild - no medical treatment needed	Mild	Quality of life not impacted
2	30-39.9 kg/m ²	Has one or more mild to moderate complications that can be halted or reduced by losing weight	Established OAC with medical intervention	Moderate	Moderate psychological or depression, anxiety, eating disorders	Moderate - QoL is being impacted
3	40-49.9 kg/m ²	At least one severe complication and may require more aggressive treatment	Significant OAC with one or more organ damage (DM, heart failure, diabetes with complications)	Significant (prohibiting OAC)	Significant (impaired mobility, unable to work or complete ADLs)	Significant - QoL is significantly impacted
4	>50 kg/m ²	At least one severe complication and may require more aggressive treatment	Severe	Severe	Severe	Severe

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Staging

- 26-year-old female: BMI 26 PMH: IR by HOMA-IR 2.4, medication metformin
- Class (WHO staging is based on BMI)
- Staging
 - AACE
 - EOSS

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Staging

- 26-year-old female: BMI 26 PMH: IR by HOMA-IR 2.4, medication metformin
- Class 1 (WHO staging is based on BMI)

Class	BMI
1	25 to 29.9 kg/m ²
2	30 to 39.9 kg/m ²
3	BMI ≥ 40 kg/m ²
- Staging
 - AACE
 - Stage 2 d/t DM or HTN
 - EOSS
 - Stage 1

Stage	BMI	Complications	Identify factors at risk	Physical symptoms	Psychological symptoms	Functional impairment
0	< 25 kg/m ² to 29.9 kg/m ² (generally no comorbidities) or BMI < 25 kg/m ²	No identified complications	Subclinical risk factor or compensated DM with medical intervention	Mild to moderate	Mild	Quality of life not impacted
1	≥ 25 kg/m ²	No one or more mild to moderate complications that are being effectively treated closely	Significant DM with mild signs/symptoms or severe DM with complications	Significant (disrupting O.A.)	Moderate psychological or behavioral symptoms	Significant - QoL is significantly impacted
2	≥ 25 kg/m ²	At least one severe complication and may require more aggressive treatment	Severe or severe	Severe or severe	Severe or severe	Severe or severe

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Thank you!

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