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# Obesity: Modern Approach to Chronic Disease Management

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# What is Obesity?

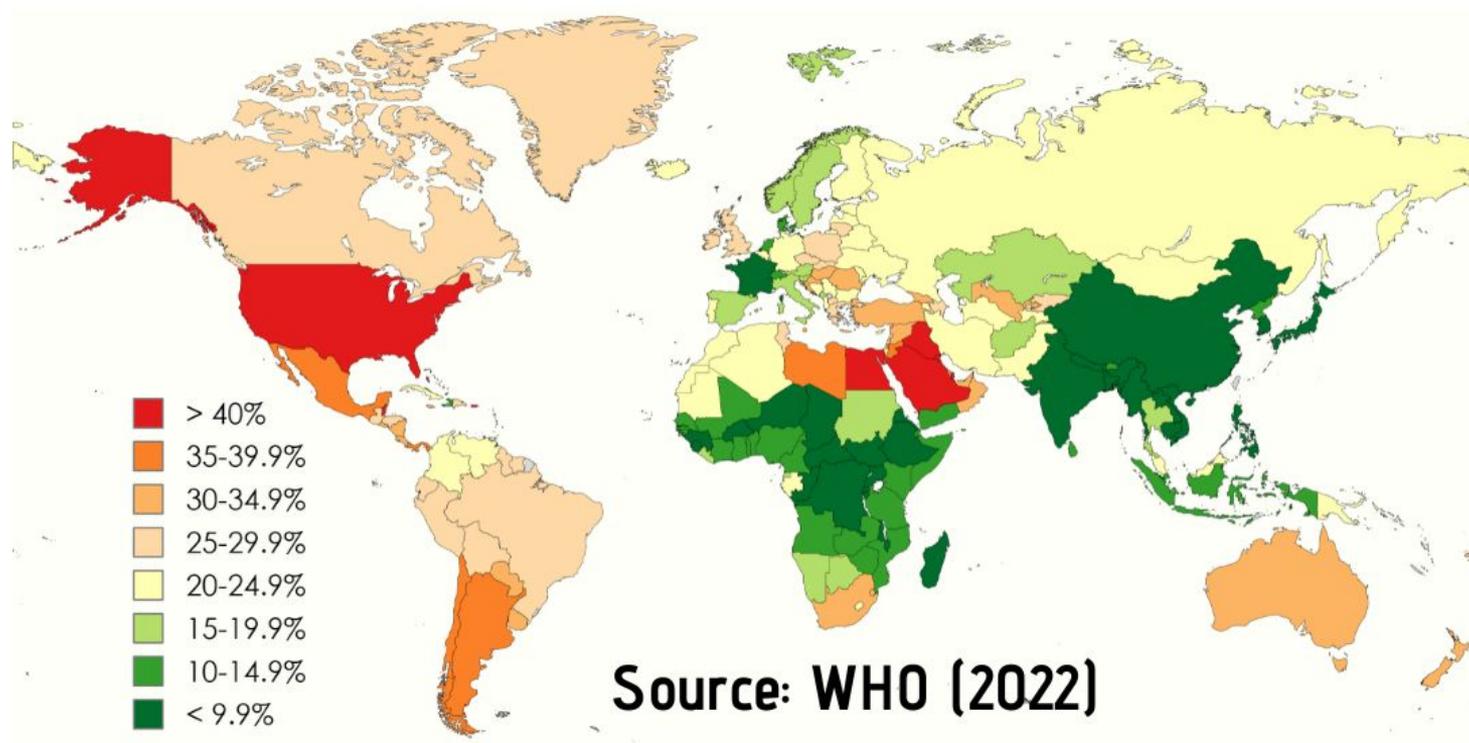
“A **chronic, relapsing, progressive** disease characterized by excessive or abnormal accumulation of body fat that **impairs health.**”

## *Key elements of the definition:*

1. **Chronic:** It requires long-term management, not just temporary interventions.
2. **Relapsing:** Weight regain is common; ongoing support is essential.
3. **Progressive:** Without treatment, obesity tends to worsen over time.
4. **Health impact:** Associated with increased risk of type 2 diabetes, cardiovascular disease, certain cancers, sleep apnea, and reduced life expectancy.

# Epidemiology

Poland: >22% of adults affected (NFZ, 2022). Warsaw trends are similar despite higher awareness. US: ~42% of adults affected (CDC, 2023). Rising prevalence especially among young adults.



# Diagnosis of Obesity (EASO Framework)

## 1. Anthropometric Measures

- Body Mass Index (BMI):
  - $\geq 30 \text{ kg/m}^2$  = Obesity
- Waist Circumference:
  - Men  $>94 \text{ cm}$ , Women  $>80 \text{ cm}$  → Central obesity
- Waist-to-Height Ratio (WHtR):
  - $\geq 0.5$  → Increased cardiometabolic risk

## 2. Clinical Evaluation

- Screening for obesity-related conditions:
  - Type 2 diabetes
  - Hypertension
  - Dyslipidemia
  - NAFLD
  - Sleep apnea
  - Osteoarthritis

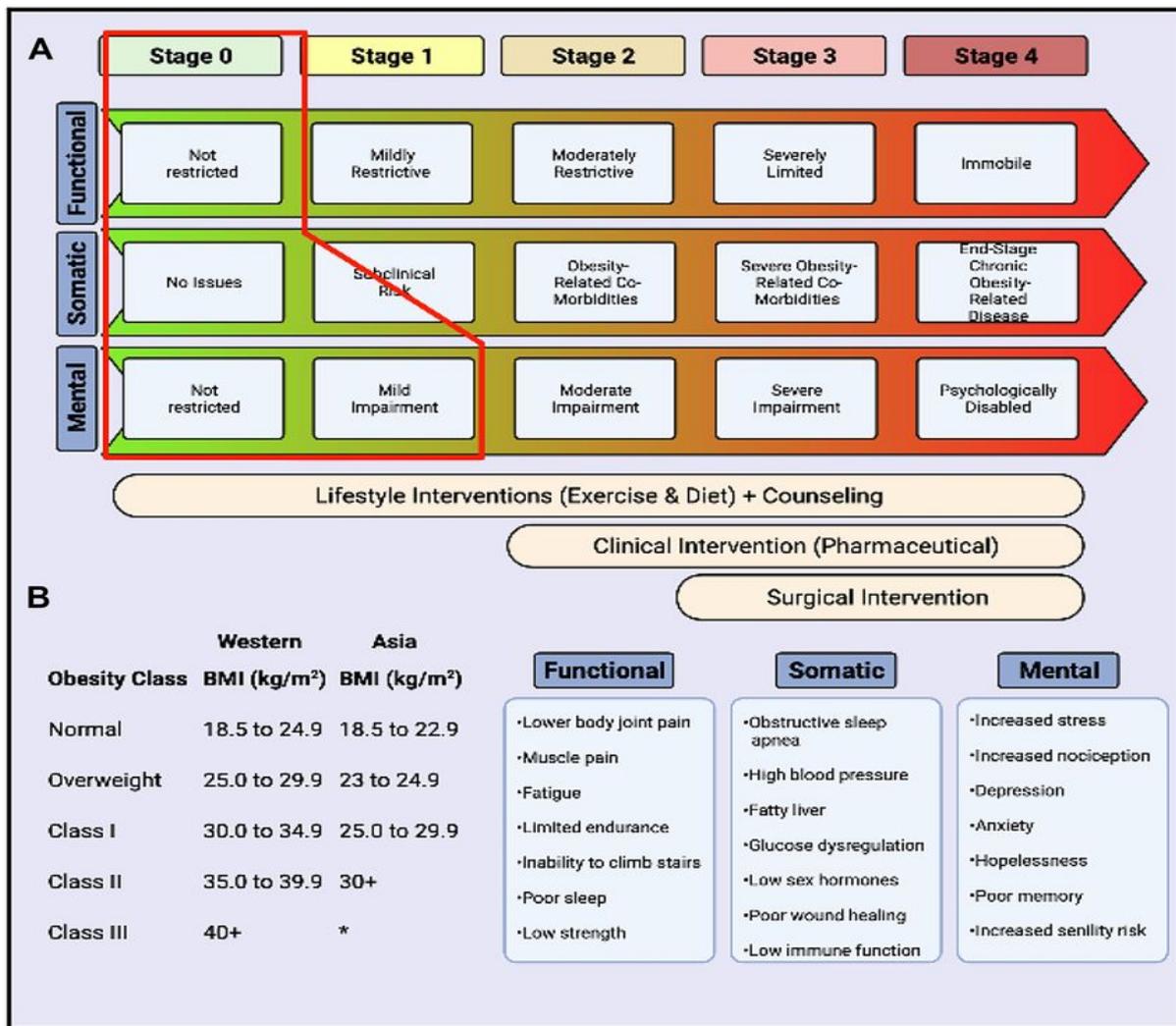
## 3. Body Composition Analysis (when available)

- DEXA, BIA, or other tools → precise fat and lean mass distribution

## 4. Functional and Psychosocial Assessment

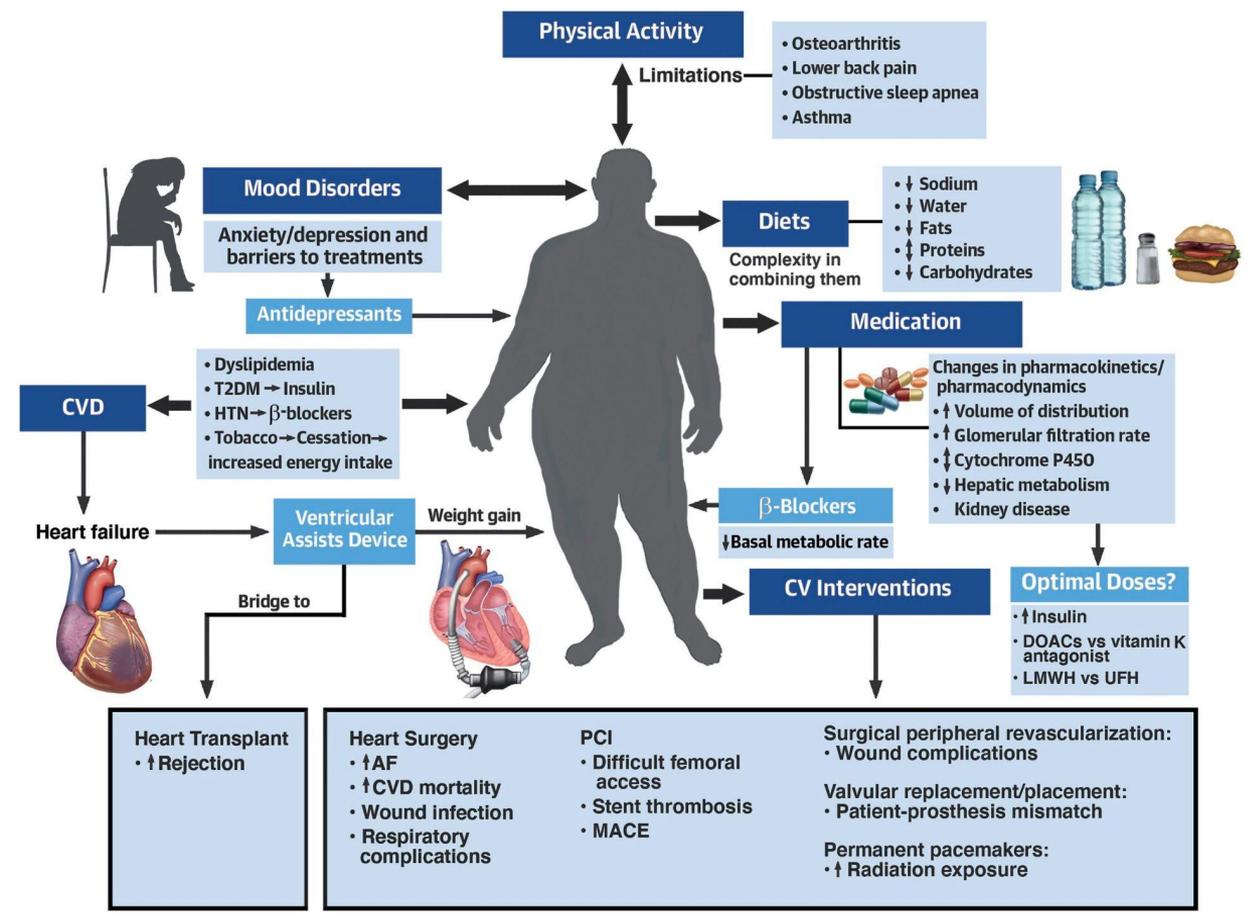
- Impact on daily activities, quality of life, and mental health

# Staging



# Challenges

## CENTRAL ILLUSTRATION: Clinical Challenges in People With Obesity and CVD



# Treatment

## 1. Lifestyle Intervention – First-line treatment for all patients

Indications: All patients with BMI  $\geq 25$  kg/m<sup>2</sup> (overweight or obese)

### Components:

- Diet: Hypocaloric diet (–500 to –600 kcal/day)
- Physical activity:  $\geq 150$  min/week (aerobic + resistance)
- Behavioral therapy: CBT, digital tools, motivational interviewing
- Structured programs: Multidisciplinary where possible

## 2. Pharmacotherapy – Second-line Treatment Indications:

- BMI  $\geq 30$  kg/m<sup>2</sup>
- BMI  $\geq 27$  kg/m<sup>2</sup> with comorbidities (T2D, HTN, NAFLD)

### Approved Medications:

- Liraglutide 3.0 (Saxenda)
- Semaglutide 2.4 (Wegovy)
- Naltrexone/Bupropion (Mysimba)
- Orlistat

### Monitoring:

- Weight Loss effects evaluated individually
- Aim at 2kg/week
- Reassess at 3–6 months
- Continue if weight loss  $\geq 5\%$

# Surgery

## 3. Bariatric Surgery – Third-line Treatment

### Indications:

- BMI  $\geq 40$  kg/m<sup>2</sup>
- BMI  $\geq 35$  kg/m<sup>2</sup> with at least one serious comorbidity (e.g. T2D, OSA, NAFLD, HTN, joint disease)
- BMI 30–34.9 kg/m<sup>2</sup> with uncontrolled T2D or other severe conditions (considered case-by-case)

### Contraindications:

- Untreated major psychiatric illness
- Substance abuse
- Lack of commitment to post-op follow-up
- BMI  $> 50$  kg/m<sup>2</sup>

### Common procedures:

- Sleeve gastrectomy
- Roux-en-Y gastric bypass (RYGB)
- One-anastomosis gastric bypass (OAGB)
- Biliopancreatic diversion (less common)

### Expected outcomes:

- 20–35% total body weight loss
- Remission or improvement in T2D, HTN, dyslipidemia
- Long-term monitoring required

### Common pre-op strategies:

- Very Low-Calorie Diets (VLCD): e.g. 800–1000 kcal/day for 2–4 weeks
- Goal: shrink liver, reduce visceral fat → easier and safer laparoscopy

# Approach to patient, compliance

## 1. Prepare the Environment

- Ensure privacy and enough consultation time
- Use neutral, non-stigmatizing language
- Provide appropriate seating and weighing equipment

## 2. Ask Permission to Discuss Weight

“Would it be okay if we talked about your weight today?”

- Builds trust
- Respects autonomy
- Increases openness,

## 3. Use Person-First, Neutral Language

Avoid terms like: “fat”, “morbidly obese”, “weight problem”

Use instead:

- “Person with obesity”
- “Increased body weight”
- “Excess weight impacting health”

!!! Language matters — reduces shame and improves adherence !!!

# Behavioral contract

## What is a Behavioral Contract?

A behavioral contract is a written, mutually agreed-upon document between a patient and healthcare provider that outlines specific, measurable behaviors related to weight management.

It includes:

Goals (e.g. physical activity, dietary habits)

Timeframes

Follow-up plans

Responsibilities of both the patient and the care team

## Personal Health Behavior Contract

Based on an awareness of my personal health status, I, \_\_\_\_\_, have decided to set the following health behavior improvement goal, and I will strive to achieve this between the following dates, \_\_\_\_\_.  
My health behavior goal is \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

The advantages to me for achieving this goal are \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

The difficulties for me in doing this are \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

The ways that I will try to accomplish this health behavior improvement goal are \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

If I have achieved this health behavior improvement goal by \_\_\_\_\_, I will reward myself by \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

If I fail to achieve this health behavior improvement goal, I will forfeit this reward.

Signed: \_\_\_\_\_, have reviewed this contract and I agree to discuss the experience involved in accomplishing or not accomplishing this health behavior improvement with \_\_\_\_\_ on \_\_\_\_\_.

Signed (witness): \_\_\_\_\_  
Phone number/email: \_\_\_\_\_

# Q & A

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