

Definition of clinical obesity and the implications for Clinical Practice: Surgeon's perspective RICARDO COHEN

Director, The Center for the treatment of Obesity and Diabetes Oswaldo Cruz German Hospital, São Paulo Brazil

IFSO President-Elect

President Brazilian Society for Metabolic and Bariatric Surgery (SBCBM) (2011-2012) President IFSO LAC (2018-2019)

Disclosures

Research Grant, J&J Medical, Brasil

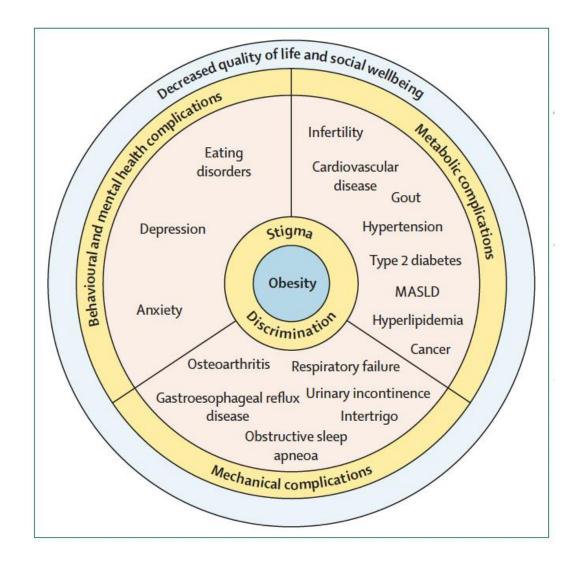
Research Grant, Medtronic

Research Grant, GI Dynamics

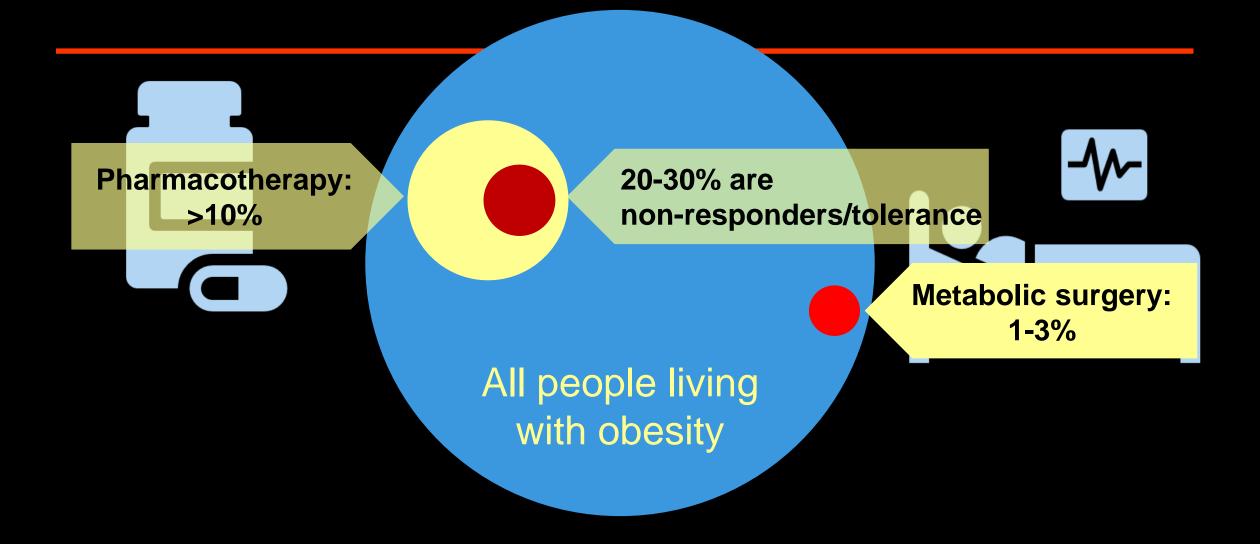
Research Grant, Hospital Oswaldo Cruz Bioscience Institute

SAB: Morphic medical, JJ Medical, Medtronic

Speaker: J&J Medical, Medtronic, NovoNordisk

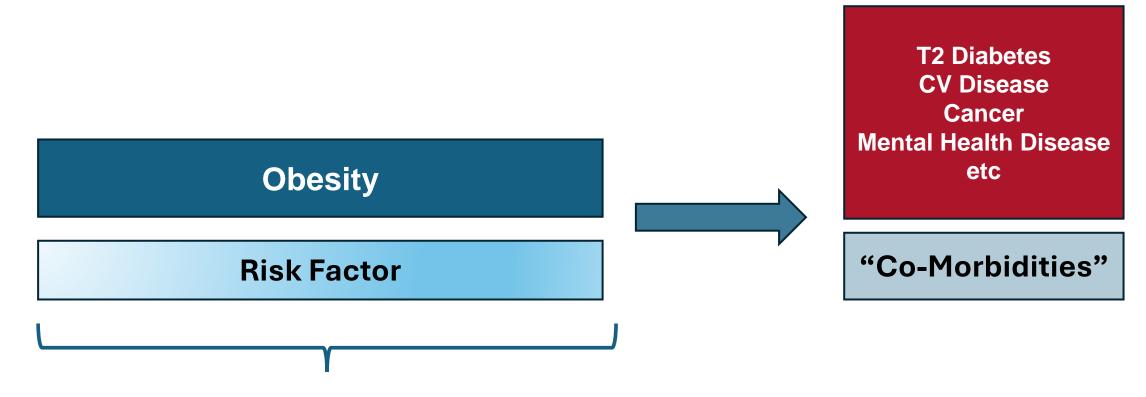


Lingvay I, Cohen RV et al, Lancet 2024



Consequences of Current Framing of Obesity

Current "Treatment" of Obesity has prophylactic intent – regardless of clinical severity



Prophylactic Intent (Weight Loss)

We make lots of efforts to increase access to MBS



Quackery: "Misrepresentation of the ability of a substance, a device, or a person to prevent or treat disease."



Misconceptions on prevention and treatment















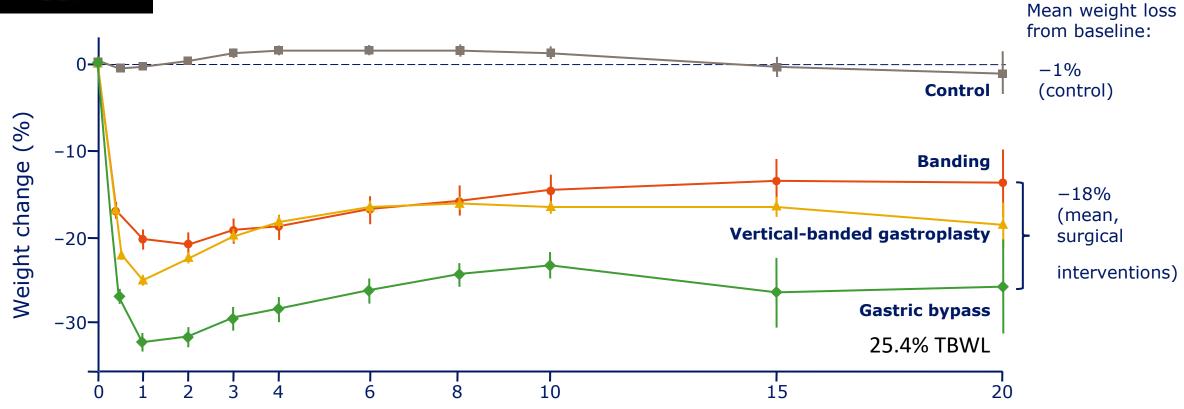


Scientific blindness





Long term WL after briatric surgery



Data are mean ±95% confidence interval

Glucocentric outcomes RCTs, at least 2 years of follow-up

	Surgical intervention	Follow-up duration, years	Glycaemic target	Proportion reaching glycaemic target (surgical intervention vs current medical treatment), %	Total bodyweight loss (surgical intervention vs current medical treatment), %
Dixon et al ³⁷	AGB	2	FPG <126 mg/dL and HbA _{1c} <6·2% (44·3 mmol/mol), without glucose-lowering agents	73% vs 13%	20% vs 1%
Cohen et al ²¹	RYGB	2	HbA_{1c} < 6.5% (47.5 mmol/mol), regardless of glucose-lowering agents	71% vs 51%	26% vs 5%
Simonson et al ³⁸	RYGB	3	FPG <126 mg/dL and HbA $_{\rm 1c}$ <6.5% (47.5 mmol/mol) regardless of glucose-lowering agents	42% νs 0%	25% vs 5%
Ikramuddin et al ³⁹	RYGB	5	HbA _{1c} <7% (53.0 mmol/mol), regardless of glucose-lowering agents	55% vs 14%	22% vs 10%
Courcoulas et al ⁴⁰	RYGB vs AGB	5	$HbA_{\rm lc}$ < 6.5 (47.5 mmol/mol) or FPG <126 mg/dL, without glucose-lowering agents	30% (RYGB) vs 19% (AGB) vs 0%	25% (RYGB) vs 15% (AGB) vs 6%
Wentworth et al ⁴¹	AGB	5	FPG <126 mg/dL and 2 h blood glucose concentration <200 mg/dL (75 g glucose oral challenge test)	23% vs 9%	12% vs 2%
Schauer et al ⁴²	RYGB vs sleeve gastrectomy	5	HbA_{1c} < 6% (42·1 mmol/mol), regardless of glucose-lowering agents	29% (RYGB) vs 23% (sleeve gastrectomy) vs 5%	23% (RYGB) vs 19% (sleeve gastrectomy) vs 5%
Mingrone et al ⁴³	RYGB vs biliopancreatic diversion	10	FPG <100 mg/dL and HbA $_{1c}$ <6.5% (47.5 mmol/mol), without glucose-lowering agents	25% (RYGB) vs 50% (biliopancreatic diversion) vs 5%	37% (RYGB) vs 42% (biliopancreatic diversion) vs 7%



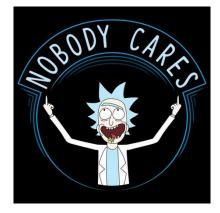
andomised controlled trials with follow-up duration of at least 2 years comparing bariatric surgery with current medical treatment

Lingvay, Sumithran, Cohen, LeRoux- Lancet 2021

	1991-NIH	2022–IFSO/ASMBS
BMI and co- morbidities	>40 kg/m²; or >35<40 kg/m² for individuals with co-morbidities (ie, diabetes, sleep apnoea, hypertension, osteoarthritis, etc)	>30 kg/m ² with medically uncontrolled diabetes; >35 kg/m ² individuals without comorbidities when suboptimal response after the best available medical treatment
Age	No data available for adolescents and people older than 70 years	Age limits expanded to include people older than 70 years after evaluation of risks and benefits; and adolescents with BMI >120% of the 95th percentile for their age with related medical problems; or adolescents with BMI >140% of the 95th percentile for their age
Special situations	None	Bridge to joint replacement, correction of abdominal wall hernia, or organ transplantation
Procedures recommended	RYGB, VBG	RYGB, SG

RYGB = Roux-en-Y gastric bypass. SG=sleeve gastrectomy. VBG=vertical banded gastroplasty.

Table 3: Differences between the 1991 National Institutes of Health Guidelines (NIH)¹⁰⁹ and the 2022 joint International Federation for the Surgery of Obesity and Metabolic Disorders (IFSO) and American Society for Metabolic and Bariatric Surgery (ASMBS) guidelines for bariatric surgery¹⁰⁸



95% of PCPs were unaware of the 2022 updated guidelines.

HulseJ, Slay R et al, Obes Surg, 2024

Despite typical signs of ongoing (severe) illness - <u>due to Obesity</u> <u>Alone – treatment</u> may not be covered by current insurance policies

Symptoms:

- Fatigue
 - Dyspnea on exertion
 - Recurrent bilateral knee pain with reduced mobility

Medical Assessment:

- Reduced diastolic function
- Restrictive pulmonary defect
- Bilateral Knee pain/stiffness
- No Diabetes

Occupation:

Currently unemployed Used to work for a moving company but he was no longer able to run his job's duties



BMI 37

"JACK"



> Lancet. 2024 Apr 27;403(10437):1613-1615. doi: 10.1016/S0140-6736(23)01963-3. Epub 2023 Sep 29.

Obesity drug shortages are symptomatic of wider malaise

Priya Sumithran¹, Francis M Finucane², Ricardo V Cohen³

People with T2D have more access to medicines than people with obesity, because of the undefinition of obesity as a disease BY ITS OWN

REFRAMING OBESITY as a **DISEASE STATE**

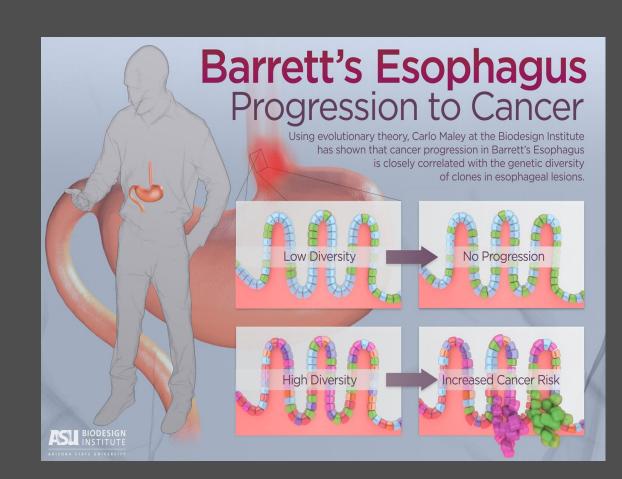
Clinical Practice

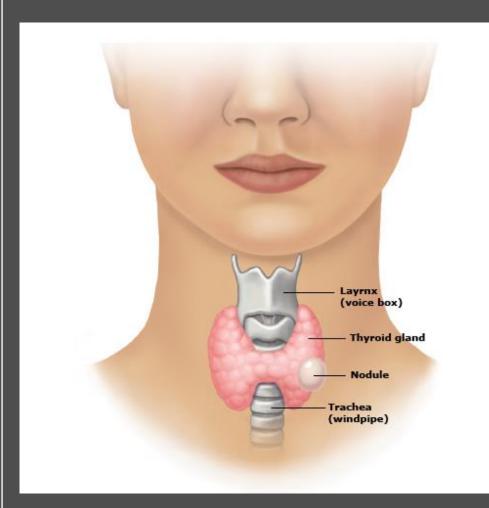
Disease

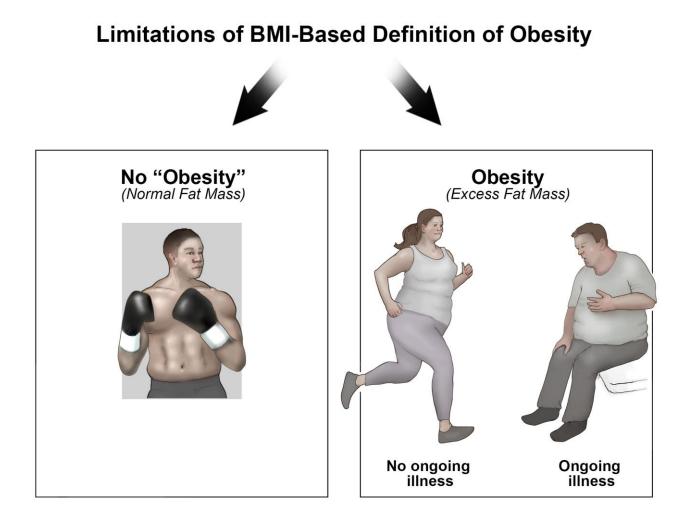
A harmful deviation from the normal structural or functional state of an organism, associated with certain signs and symptoms And limitations of daily activities

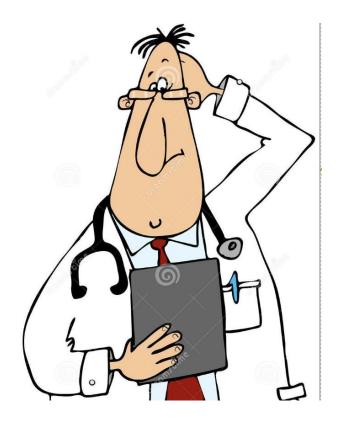
Disease = Negative impact on health at <u>present</u> Current Definition of Obesity "abnormal or excessive fat accumulation that presents a risk to health...

"Risk to health" = risk may (or may not) materialize in the future









The gradual realization:

The BMI: A great tool for epidemiologists but often misleading in the doctor's office The BMI is not an appropriate metric to deny access to obesity treatments

✓ Unigender

- ✓ Does not allow evaluation of fitness status
- ✓ Discriminates against
 - ✓ Older patients
 - ✓ Ethnicities

BMI should not be used :

- ✓ Diagnose clinical obesity
- ✓ Rank the severity of obesity (Class I, II, III),
- ✓ Sole criterion to establish indications for therapeutic interventions
- ✓ Determine coverage for obesity treatments

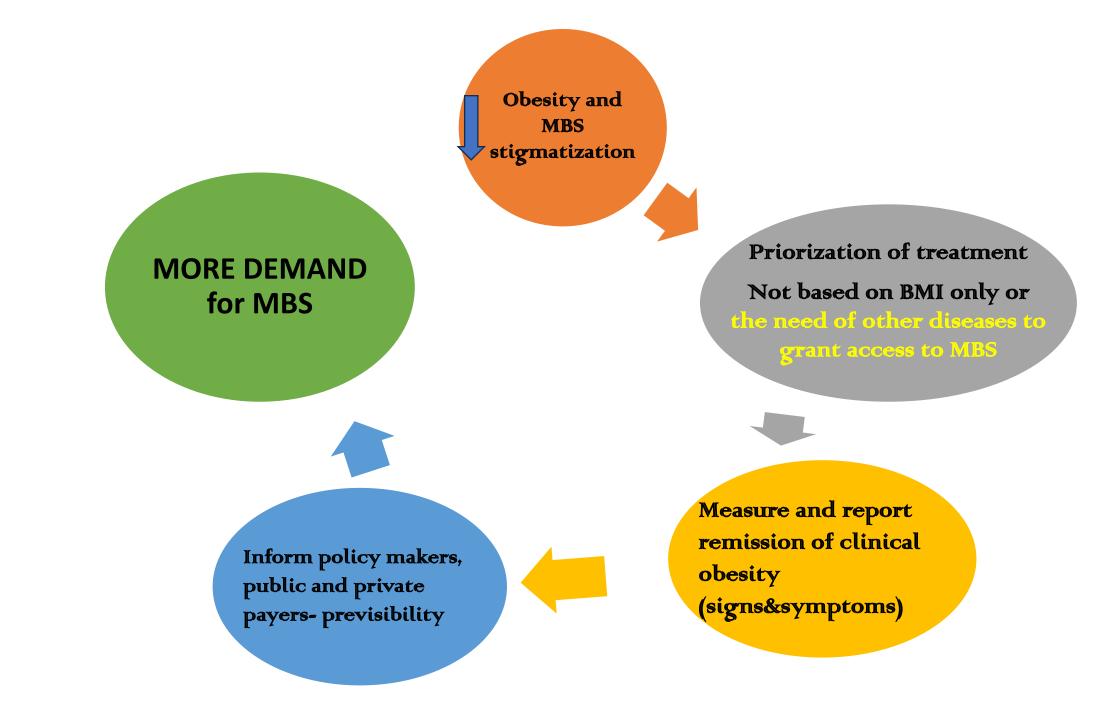
Obesity defined as it is

Payers, policy makers Public health professionals



Lancet Commission on Clinical Obesity & MBS





ricardo.cohen@haoc.com.br

@rvcohen(twitter)

Thank you

