



SICOB EVENTI

6 - 7 MARZO 2025



CHAIRMEN

LUIGI ANGRISANI

MARIO MUSELLA

VINCENZO PILONE

NAPLES, MARCH 6-7, 2025

1ST INTERNATIONAL BARIATRIC MEETING

**Bariatric Surgery and Pharmacological approach
to Morbid Obesity: An open debate**

APPROCCIO FARMACOLOGICO: INDICAZIONI E LIMITI

LUCA BUSETTO

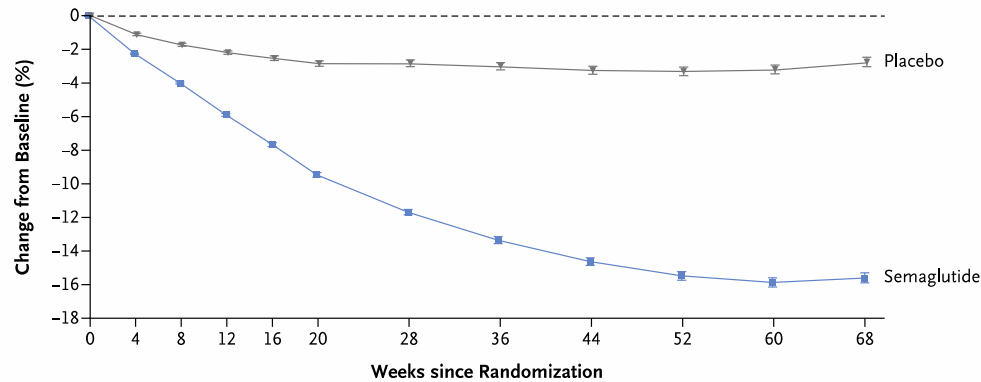
**DIPARTIMENTO DI MEDICINA
UNIVERSITA' DI PADOVA**

Once-Weekly Semaglutide in Adults with Overweight or Obesity

PARTICIPANTS

We enrolled adults (18 years of age or older) with one or more self-reported unsuccessful dietary efforts to lose weight and either a BMI of 30 or greater or a BMI of 27 or greater with one or more treated or untreated weight-related coexisting conditions (i.e., hypertension, dyslipidemia, obstructive sleep apnea, or cardiovascular disease).

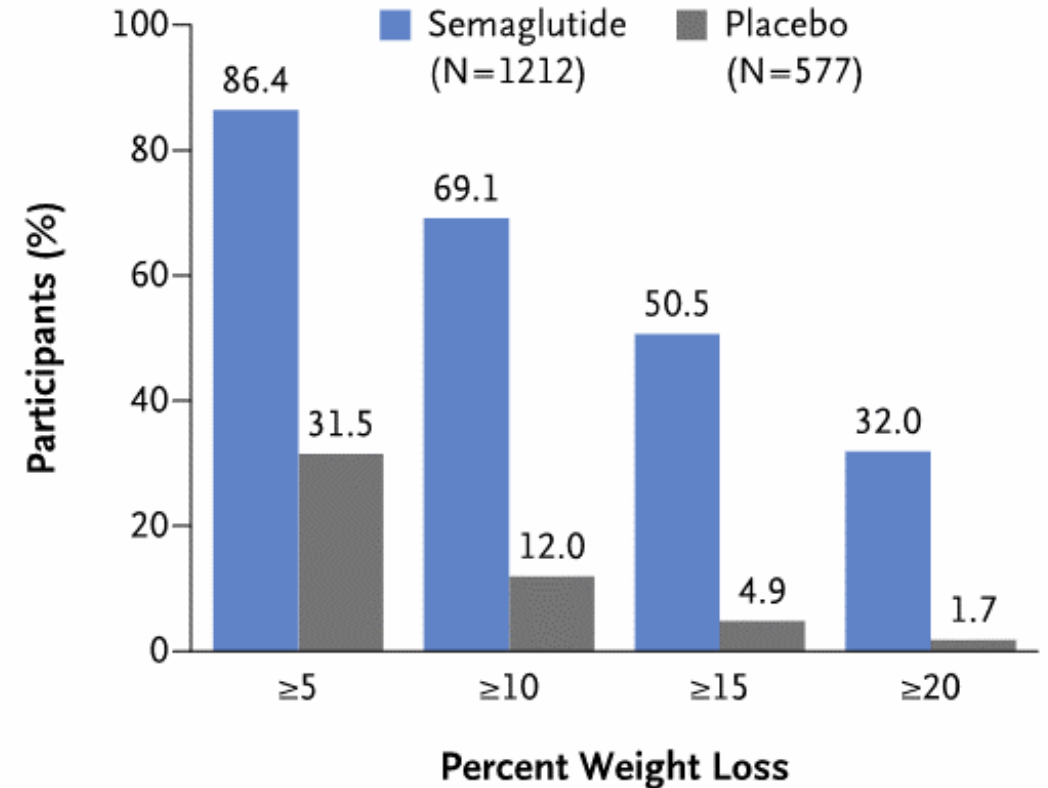
A Body Weight Change from Baseline by Week, Observed In-Trial Data



No. at Risk

Placebo	655	649	641	619	615	603	592	571	554	549	540	577
Semaglutide	1306	1290	1281	1262	1252	1248	1232	1228	1207	1203	1190	1212

C In-Trial Data at Wk 68

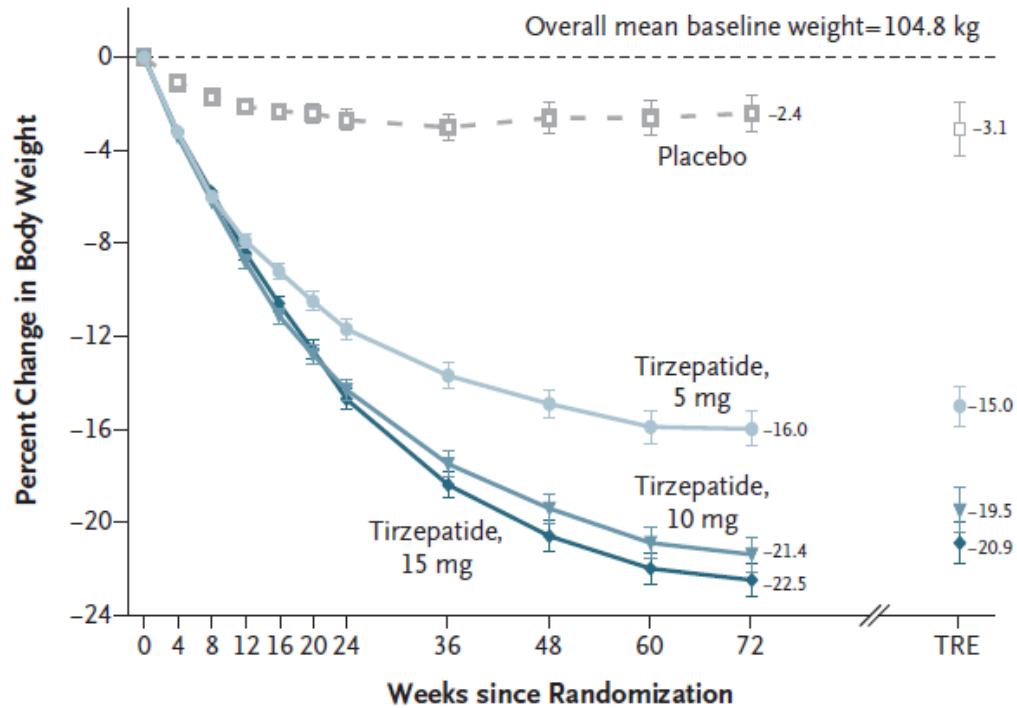


Tirzepatide Once Weekly for the Treatment of Obesity

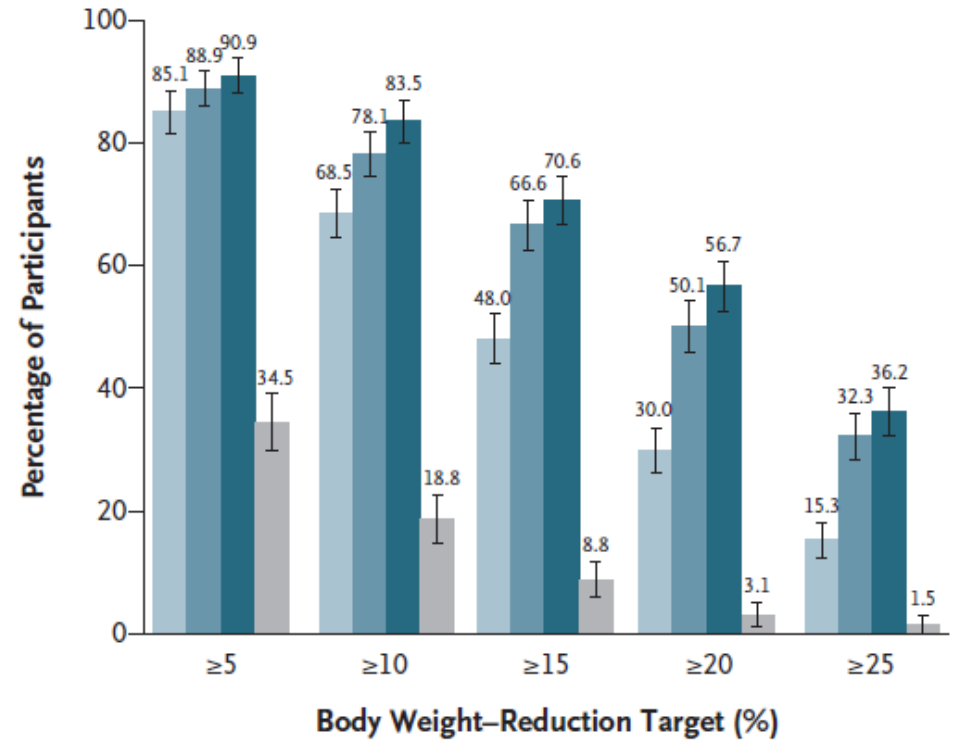
PARTICIPANTS

Adults who were 18 years of age or older, with a body-mass index (BMI, the weight in kilograms divided by the square of the height in meters) of 30 or more, or a BMI of 27 or more and at least one weight-related complication (e.g., hypertension, dyslipidemia, obstructive sleep apnea, or cardiovascular disease), and who reported one or more unsuccessful dietary effort to lose weight

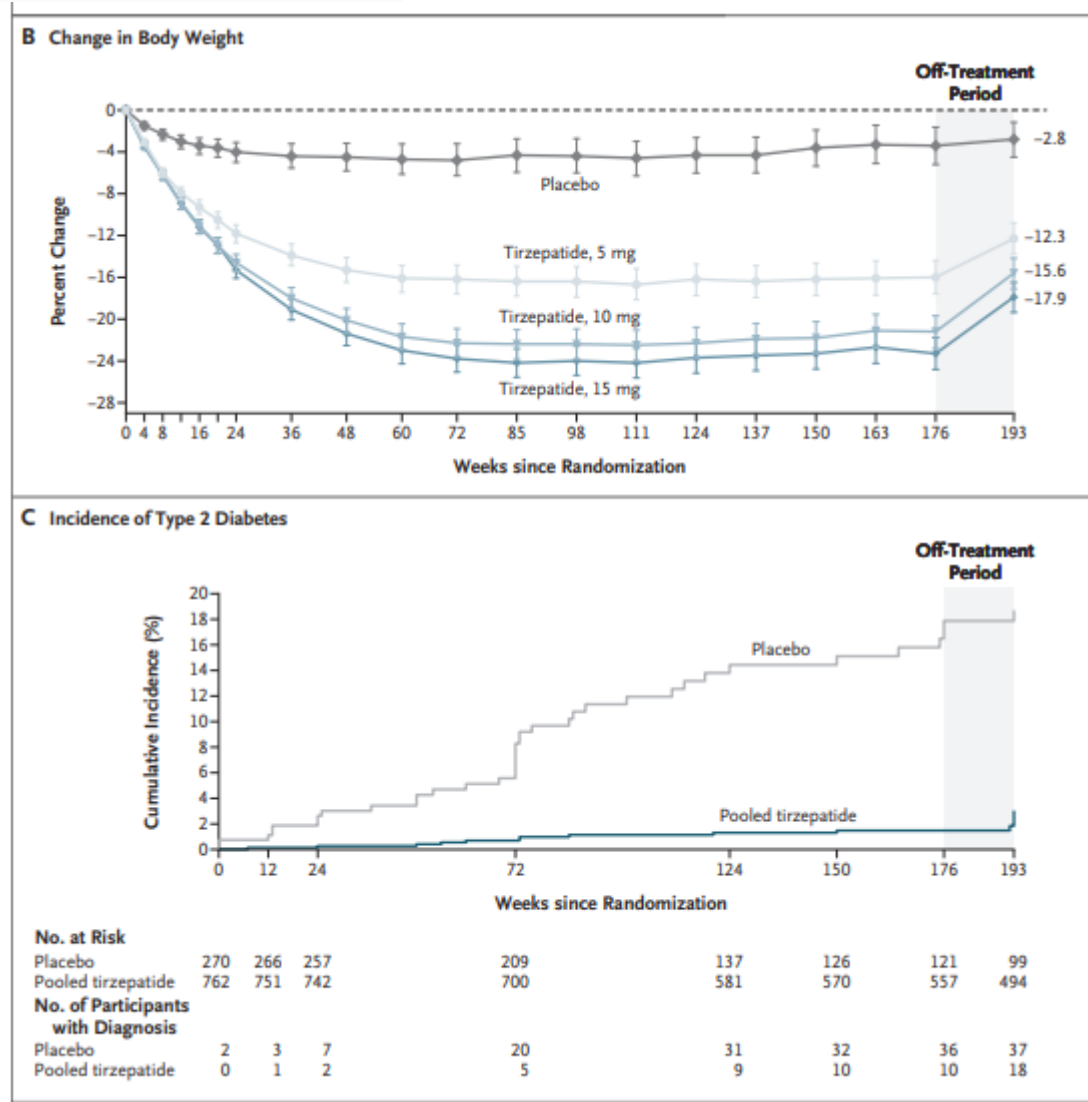
B Percent Change in Body Weight by Week (efficacy estimand)



C Participants Who Met Weight-Reduction Targets (treatment-regimen estimand)



Tirzepatide for Obesity Treatment and Diabetes Prevention



Jastreboff AM et al. N Engl J Med 2024; Nov 13

Figure 5. Diagnosis and Medical Management of Obesity

DIAGNOSIS		COMPLICATION-SPECIFIC STAGING AND TREATMENT		
Anthropometric Component (BMI kg/m ²)	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 (no obesity)	Primary	<ul style="list-style-type: none"> • 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 <ul style="list-style-type: none"> • Metabolic syndrome • Prediabetes • Type 2 diabetes • Dyslipidemia • Hypertension • Cardiovascular disease 	Overweight stage 0 (no complications)	Secondary	<ul style="list-style-type: none"> • Lifestyle therapy: Reduced-calorie healthy meal plan/physical activity/behavioral interventions
≥30 ≥25 in certain ethnicities		Obesity stage 0 (no complications)	Secondary	<ul style="list-style-type: none"> • Lifestyle therapy: Reduced-calorie healthy meal plan/physical activity/behavioral interventions • Weight-loss medications: Consider after lifestyle therapy fails to prevent progressive weight gain. (BMI ≥27)
≥25 ≥23 in certain ethnicities	<ul style="list-style-type: none"> • Nonalcoholic fatty liver disease • Polycystic ovary syndrome • Female infertility • Male hypogonadism • Obstructive sleep apnea • Asthma/reactive airway disease 	Obesity stage 1 (1 or more mild-moderate complications)	Tertiary	<ul style="list-style-type: none"> • Lifestyle therapy: Reduced-calorie healthy meal plan/physical activity/behavioral interventions • Weight-loss medications: Consider after lifestyle therapy fails to achieve therapeutic target or initiate concurrent with lifestyle therapy. (BMI ≥27)
≥25 ≥23 in certain ethnicities		Obesity stage 2 (at least 1 severe complication)	Tertiary	<ul style="list-style-type: none"> • Lifestyle therapy: Reduced-calorie healthy meal plan/physical activity/behavioral interventions • Add weight-loss medication: Initiate concurrent with lifestyle therapy. (BMI ≥27) • Consider bariatric surgery: (BMI ≥35)

**AMERICAN ASSOCIATION OF CLINICAL ENDOCRINOLOGISTS
AND AMERICAN COLLEGE OF ENDOCRINOLOGY
COMPREHENSIVE CLINICAL PRACTICE GUIDELINES FOR
MEDICAL CARE OF PATIENTS WITH OBESITY**

A new framework for the diagnosis, staging and management of obesity in adults

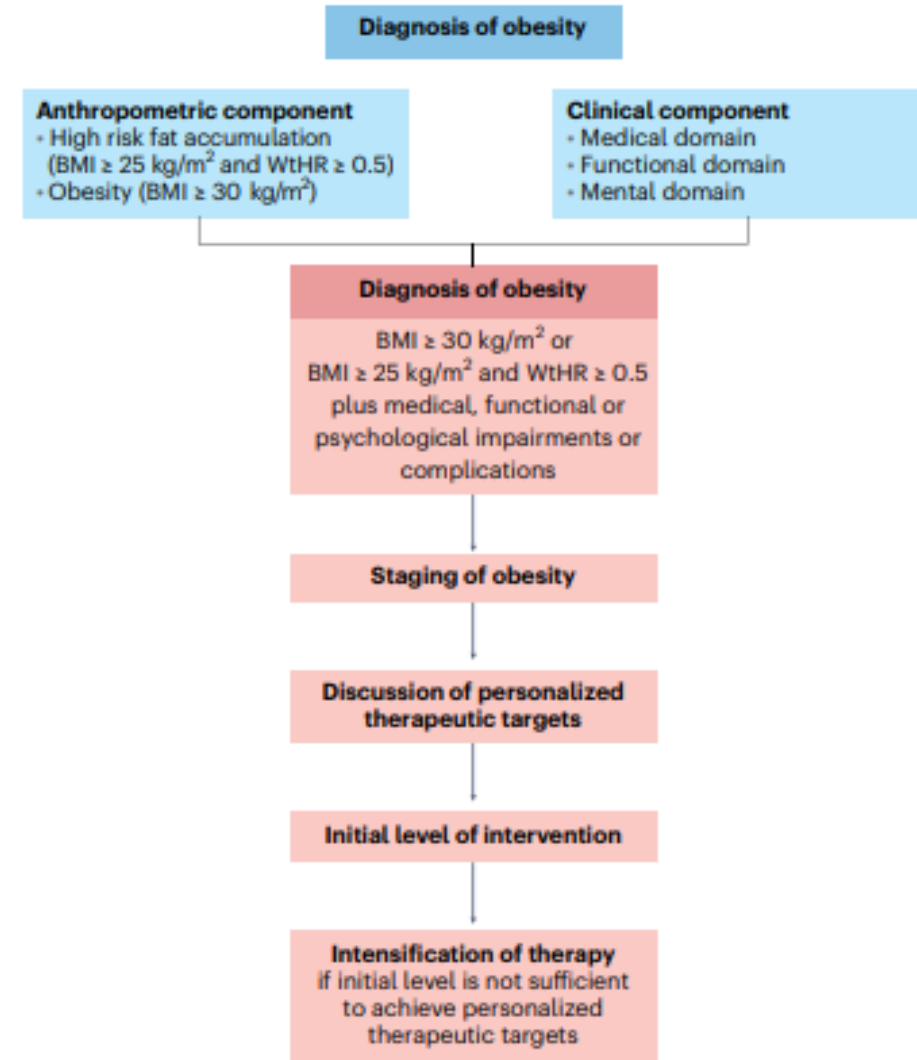


Fig. 1 | A new framework for the diagnosis, staging and management of obesity in adults. This flowchart of the diagnostic and therapeutic pathways results from the statements in Table 1. WtHR, waist-to-height ratio.

Busetto L et al. Nat Med 2024;30:2395-2399.

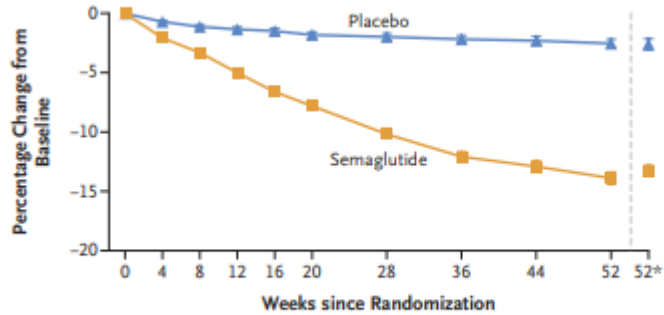
Tirzepatide Once Weekly for the Treatment of Obesity

Table 1. Demographic and Clinical Characteristics of the Participants at Baseline.*

Characteristic	Tirzepatide, 5 mg (N=630)	Tirzepatide, 10 mg (N=636)	Tirzepatide, 15 mg (N=630)	Placebo (N=643)	Total (N=2539)
Age — yr	45.6±12.7	44.7±12.4	44.9±12.3	44.4±12.5	44.9±12.5
Female sex — no. (%)	426 (67.6)	427 (67.1)	425 (67.5)	436 (67.8)	1714 (67.5)
Race or ethnic group — no. (%) †					
American Indian or Alaska Native	56 (8.9)	58 (9.1)	59 (9.4)	58 (9.0)	231 (9.1)
Asian	68 (10.8)	71 (11.2)	66 (10.5)	71 (11.0)	276 (10.9)
Black or African American	48 (7.6)	47 (7.4)	51 (8.1)	55 (8.6)	201 (7.9)
White	447 (71.0)	452 (71.1)	443 (70.3)	450 (70.0)	1792 (70.6)
Native Hawaiian or other Pacific Islander	2 (0.3)	2 (0.3)	3 (0.5)	2 (0.3)	9 (0.4)
Multiple	9 (1.4)	6 (0.9)	8 (1.3)	7 (1.1)	30 (1.2)
Hispanic or Latino — no. (%)	308 (48.9)	297 (46.7)	299 (47.5)	310 (48.2)	1214 (47.8)
Duration of obesity — yr	14.0±10.81	14.7±11.05	14.8±10.75	14.0±10.71	14.4±10.83
Body weight — kg	102.9±20.71	105.8±23.32	105.6±22.92	104.8±21.37	104.8±22.12
Mean body-mass index	37.4±6.63	38.2±7.01	38.1±6.69	38.2±6.89	38.0±6.81
Body-mass index category — no. (%)					
<30	38 (6.0)	38 (6.0)	40 (6.3)	24 (3.7)	140 (5.5)
≥30 to <35	241 (38.3)	209 (32.9)	199 (31.6)	227 (35.3)	876 (34.5)
≥35 to <40	174 (27.6)	187 (29.4)	179 (28.4)	180 (28.0)	720 (28.4)
≥40	177 (28.1)	202 (31.8)	212 (33.7)	212 (33.0)	803 (31.6)

Semaglutide in Patients with Heart Failure with Preserved Ejection Fraction and Obesity

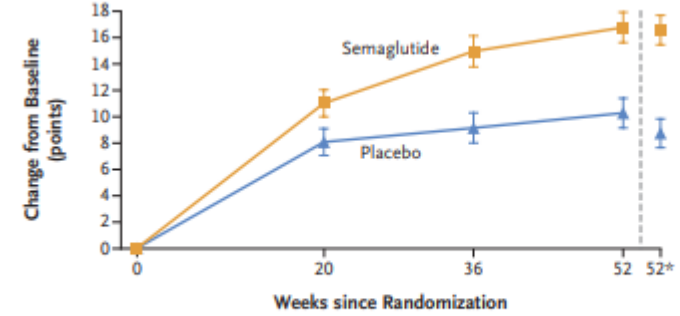
B Change in Body Weight



Estimated difference, 10.7 percentage points
(95% CI, -11.9 to -9.4)
P<0.001

No. of Participants		0	4	8	12	16	20	28	36	44	52	52*
Semaglutide		263	255	254	250	246	252	239	243	240	246	263
Placebo		266	259	249	250	243	246	243	239	233	242	266

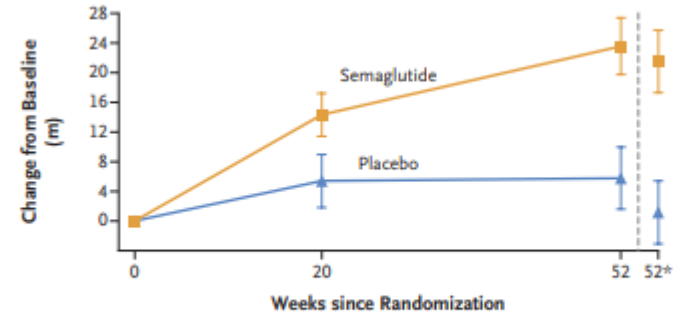
A Change in KCCQ-CSS



Estimated difference, 7.8 points
(95% CI, 4.8 to 10.9)
P<0.001

No. of Participants		0	20	36	52	52*
Semaglutide		263	249	225	243	263
Placebo		266	242	217	237	266

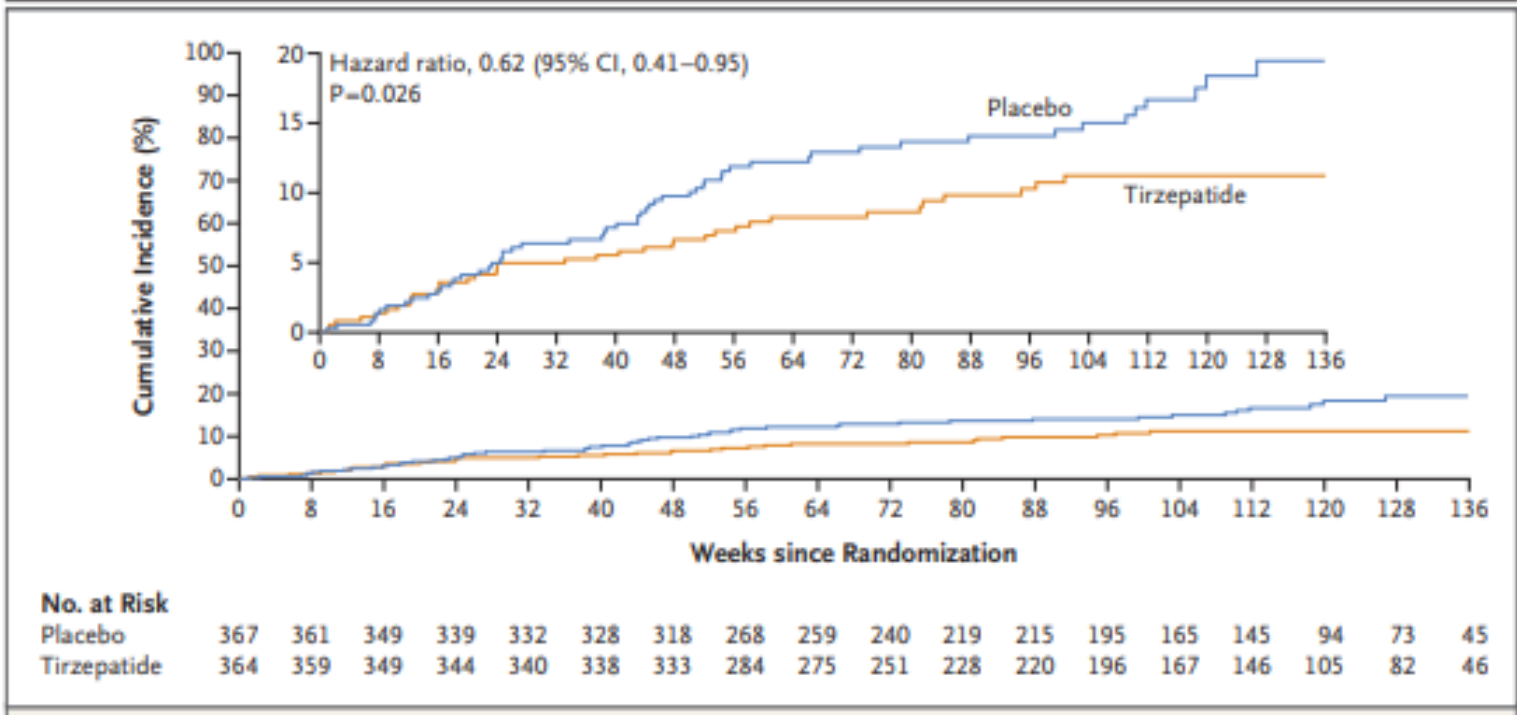
A Change in 6-Minute Walk Distance



Estimated difference, 20.3 m
(95% CI, 8.6 to 32.1)
P<0.001

No. of Participants		0	20	52	52*
Semaglutide		263	245	240	263
Placebo		266	232	225	266

Tirzepatide for Heart Failure with Preserved Ejection Fraction and Obesity



Packer M et al. NEJM 2024 Nov 16.

Semaglutide and Cardiovascular Outcomes in Obesity without Diabetes

MACE:

701 on 8801 pts (8.0%) in placebo

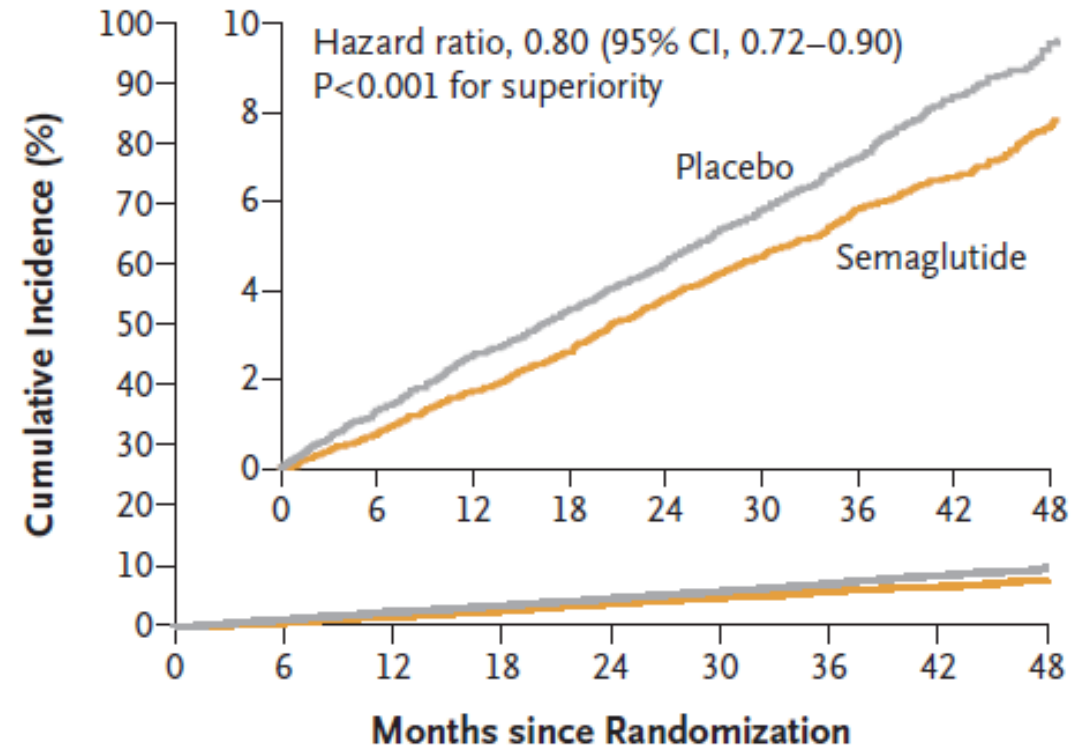
569 on 8803 pts (6.5%) in semaglutide

ABR: 1.5%

NNT: 67

Lincof AM et al. N Engl J Med. 2023;389:2221.

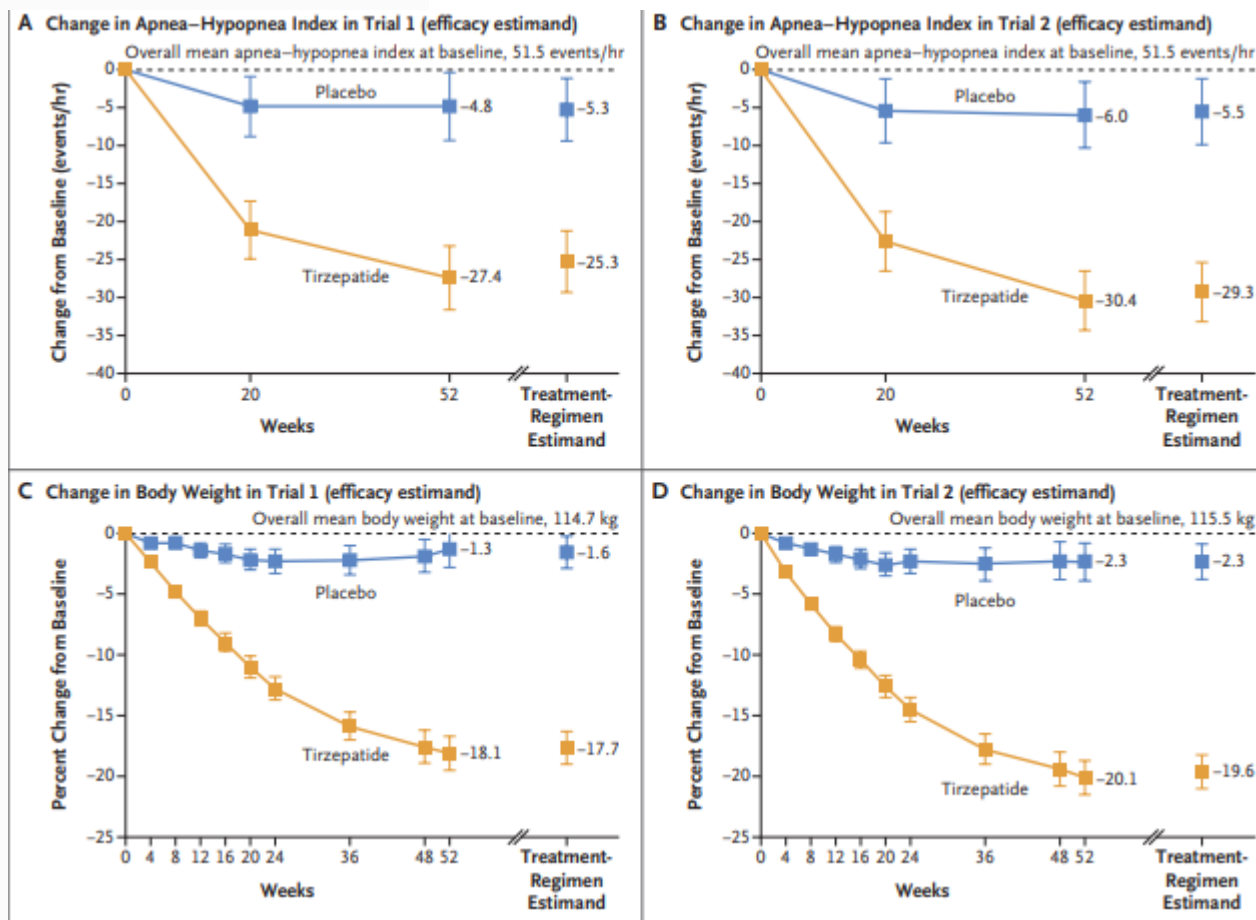
A Primary Cardiovascular Composite End Point



No. at Risk

Placebo	8801	8652	8487	8326	8164	7101	5660	4015	1672
Semaglutide	8803	8695	8561	8427	8254	7229	5777	4126	1734

Tirzepatide for the Treatment of Obstructive Sleep Apnea and Obesity



Malhotra A et al. NEJM 2024;391:1193

Semaglutide and Cardiovascular Outcomes in Obesity without Diabetes

Tirzepatide for Heart Failure with Preserved Ejection Fraction and Obesity

Table 1. Baseline Characteristics of the Patients.*

Characteristic	Semaglutide (N=8803)	Placebo (N=8801)
Age — yr	61.6±8.9	61.6±8.8
Male sex — no. (%)	6355 (72.2)	6377 (72.5)
Race or ethnic group — no. (%)†		
White	7387 (83.9)	7404 (84.1)
Asian	720 (8.2)	727 (8.3)
Black	348 (4.0)	323 (3.7)
Other	253 (2.9)	273 (3.1)
Hispanic or Latino	914 (10.4)	908 (10.3)
Body weight — kg	96.5±17.5	96.8±17.8
BMI‡	33.3±5.0	33.4±5.0

Table 1. Characteristics of the Patients at Baseline.*

Characteristic	Tirzepatide (N=364)	Placebo (N=367)
Age — yr	65.5±10.5	65.0±10.9
Female sex — no. (%)	200 (54.9)	193 (52.6)
Race or ethnic group — no. (%)†		
Native American, Alaska Native, or Pacific Islander	26 (7.1)	24 (6.5)
Asian	58 (15.9)	73 (19.9)
Black	22 (6.0)	14 (3.8)
White	256 (70.3)	256 (69.8)
Other or multiple	2 (0.5)	0 (0.0)
Region — no. (%)		
United States	83 (22.8)	68 (18.5)
Latin America	193 (53.0)	197 (53.7)
Asia	58 (15.9)	73 (19.9)
Other	30 (8.2)	29 (7.9)
New York Heart Association functional classification — no. (%)		
Class II	262 (72.0)	268 (73.0)
Class III or IV	102 (28.0)	99 (27.0)
Measures of adiposity		
Body weight — kg	102.9±21.7	103.1±22.7
Body-mass index‡	38.3±6.4	38.2±7.0

Lincof AM et al. N Engl J Med. 2023;389:2221.

Packer M et al. NEJM 2024 Nov 16.

Tirzepatide Once Weekly for the Treatment of Obesity

Table 4. Adverse Events and Safety.

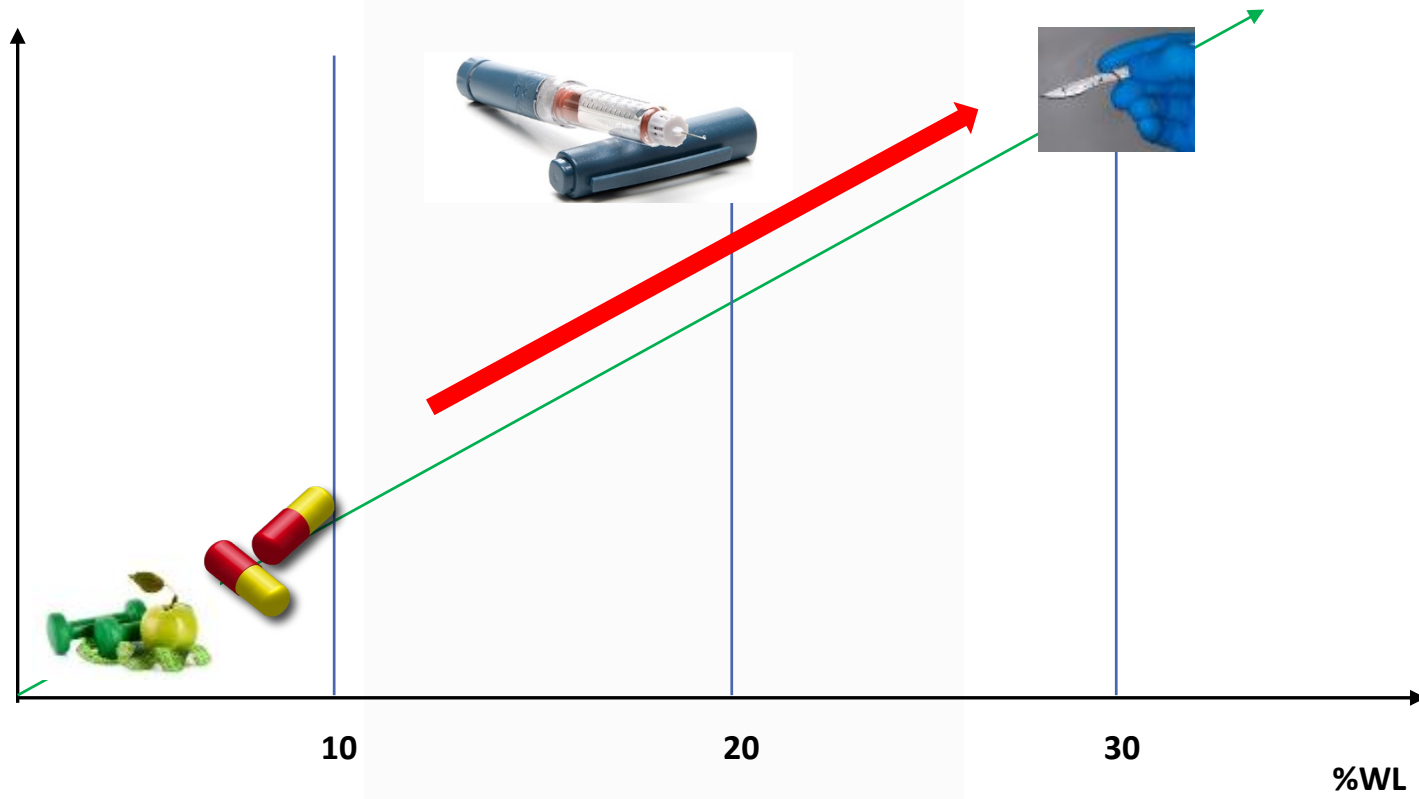
Variable	Tirzepatide, 5 mg (N = 630)	Tirzepatide, 10 mg (N = 636)	Tirzepatide, 15 mg (N = 630)	Placebo (N = 643)
	<i>number (percent)</i>			
Participants with ≥ 1 adverse event during treatment period	510 (81.0)	520 (81.8)	497 (78.9)	463 (72.0)
Serious adverse events	40 (6.3)	44 (6.9)	32 (5.1)	44 (6.8)
Death*	4 (0.6)	2 (0.3)	1 (0.2)	4 (0.6)
Adverse events leading to discontinuation of trial drug or placebo†	27 (4.3)	45 (7.1)	39 (6.2)	17 (2.6)
Nausea	6 (1.0)	7 (1.1)	12 (1.9)	2 (0.3)
Diarrhea	2 (0.3)	5 (0.8)	3 (0.5)	0
Abdominal pain	0	2 (0.3)	3 (0.5)	0
Vomiting	0	4 (0.6)	0	0

Tirzepatide Once Weekly for the Treatment of Obesity

Table 4. Adverse Events and Safety.

Variable	Tirzepatide, 5 mg (N = 630)	Tirzepatide, 10 mg (N = 636)	Tirzepatide, 15 mg (N = 630)	Placebo (N = 643)
	<i>number (percent)</i>			
Adverse events of special interest				
Hepatic events§	2 (0.3)	2 (0.3)	0	0
Cancer	9 (1.4)	3 (0.5)	5 (0.8)	7 (1.1)
Pancreatitis (adjudication-confirmed)	1 (0.2)	1 (0.2)	1 (0.2)	1 (0.2)
Major adverse cardiovascular events (adjudication-confirmed)	4 (0.6)	5 (0.8)	0	5 (0.8)
Cardiac disorders¶	0	1 (0.2)	2 (0.3)	1 (0.2)
Severe or serious gastrointestinal events	11 (1.7)	20 (3.1)	21 (3.3)	7 (1.1)
Gallbladder disease§	5 (0.8)	11 (1.7)	6 (1.0)	5 (0.8)
Renal events§	2 (0.3)	2 (0.3)	2 (0.3)	1 (0.2)
Major depressive disorder or suicidal ideation§	1 (0.2)	2 (0.3)	2 (0.3)	0
Hypersensitivity	0	1 (0.2)	1 (0.2)	0
Hypoglycemia (blood glucose <54 mg/dl)	9 (1.4)	10 (1.6)	10 (1.6)	1 (0.2)

Invasivity/Risk/Cost

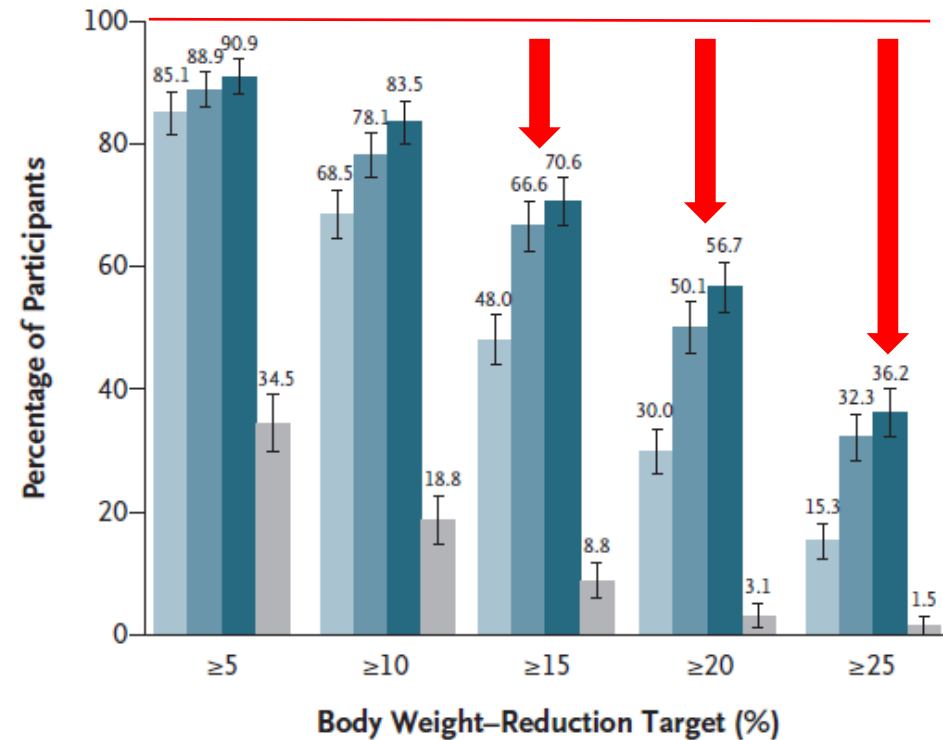


Tirzepatide Once Weekly for the Treatment of Obesity

A significant proportion of patients do will not achieve the target with obesity management medications

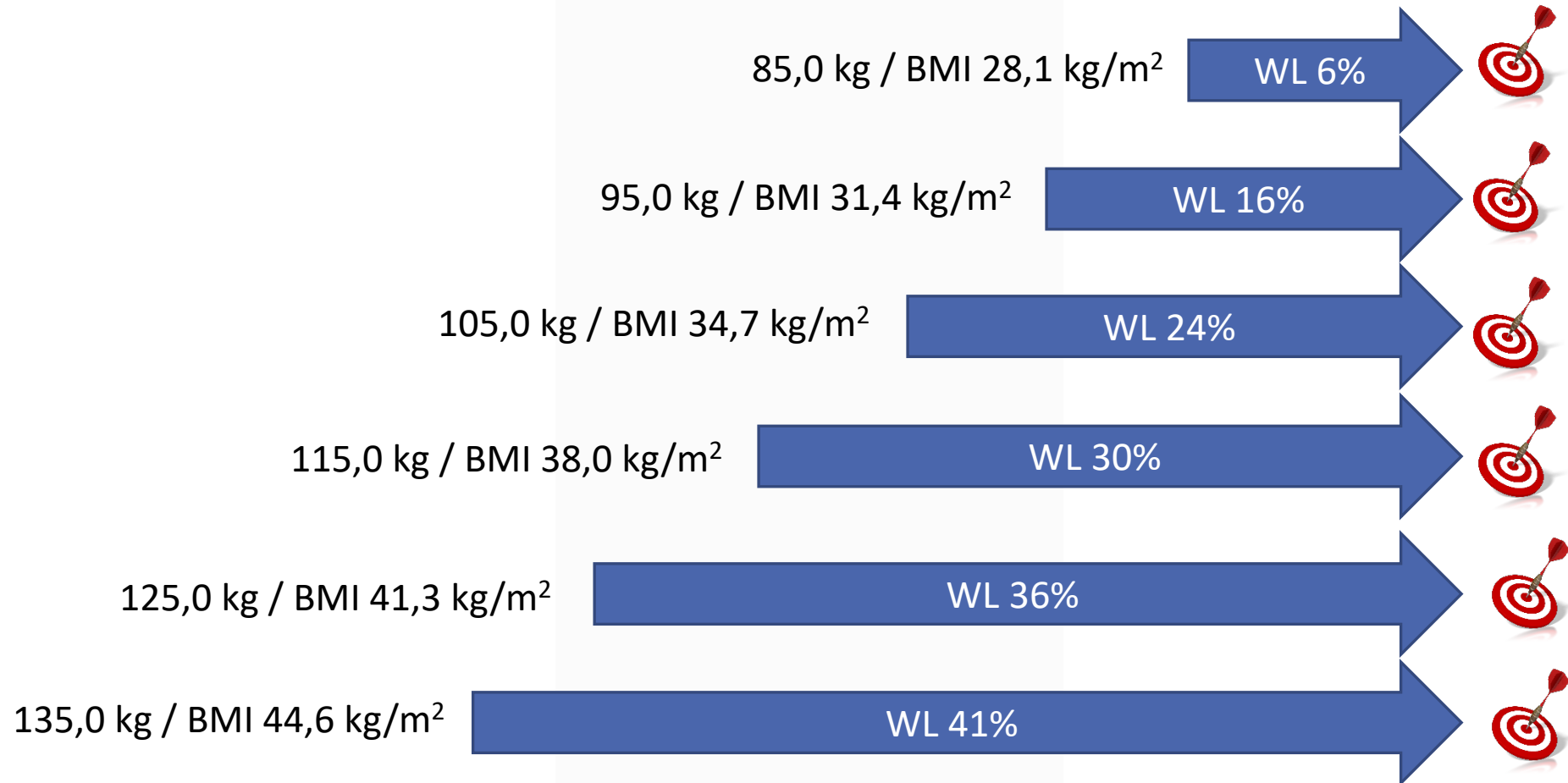
Jastreboff AM et al. N Engl J Med 2022;387:205

C Participants Who Met Weight-Reduction Targets (treatment-regimen estimand)



%WL AS A DISTANCE TO TARGET

Patients with height 174 cm, BMI target 26 kg/m² (corresponding to a BW of 80.0 kg) and different baseline body weight / BMI.



If we agree on individualised BMI or WHtR target, do we should propose as initial level of intervention a therapeutic modality with a reasonable chance to achive the BMI or WHtR target?

Patient with height 174 cm and BMI target 26 kg/m² (corresponding to a BW of 80.0 kg)

Initial BW	Initial BW	Requested % weight loss
▪ 85.0 kg	28.1 kg/m ²	6%
▪ 95.0 kg	31.4 kg/m ²	16%
▪ 105.0 kg	34.7 kg/m ²	24%
▪ 115.0 kg	38.0 kg/m ²	30%
▪ 125.0 kg	41.3 kg/m ²	36%
▪ 135.0 kg	44.6 kg/m ²	41%

Will new pharmacological treatment for obesity and early diabetes replace bariatric surgery?

**There is no magic bullet
for obesity**

Lingway I et al. Lancet Diabetes Endocrinol 2023;11:541



SICOB EVENTI

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CHAIRMEN **LUIGI ANGRISANI** **MARIO MUSELLA** **VINCENZO PILONE**

NAPLES, MARCH 6-7, 2025

1ST INTERNATIONAL BARIATRIC MEETING

**Bariatric Surgery and Pharmacological approach
to Morbid Obesity: An open debate**



**Grazie per
l'attenzione !!!**



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