Weight No Longer: Addressing Overweight/Obesity as an Integral Part of Type 2 Diabetes Management

Davida F. Kruger, MSN, APN-BC, BC-ADM

Certified Nurse Practitioner
Henry Ford Health System
Division of Endocrinology, Diabetes, Bone and Mineral Disease
Detroit, MI

Disclosures

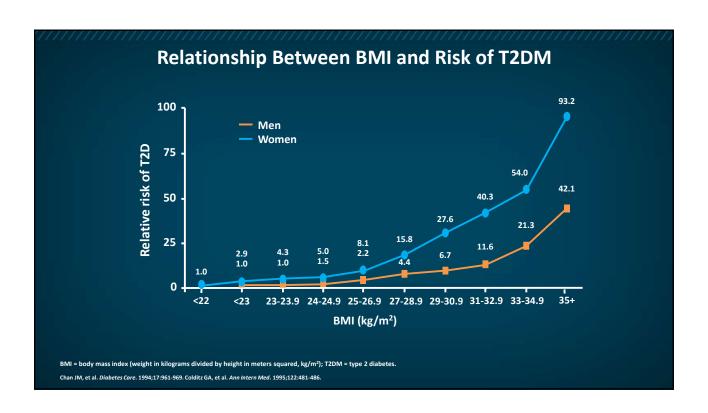
- Davida F. Kruger, MSN, APN-BC, BC-ADM, Receives consultant fee Abbott, Cequr, Embecta, Insulet, Lilly, Ascencia, Mannkind, Medtronic, Sanofi, and Proteomics. She is on the speaker bureau for Dexcom, Cequr, Lilly, Novo Nordisk, and Sanofi. She is contracted for Institutional Research with Abbott, Beta Bionics, Insulet, Novo Nordisk and Tandem. Stock options (NOT exercised): Pendulum.
- During this activity, Davida Kruger may mention the use of medications for both FDA-approved and nonapproved indications.

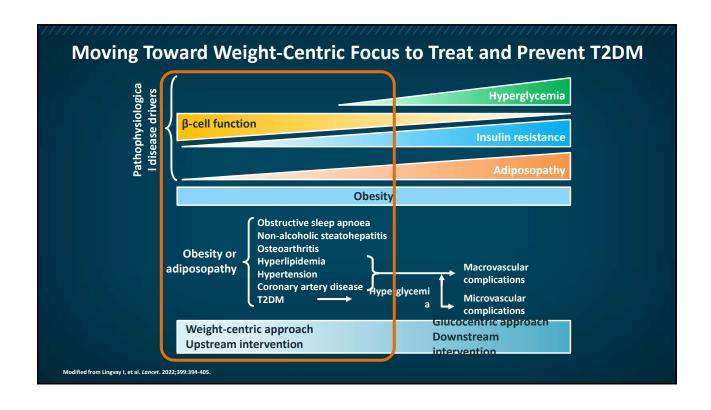
All relevant financial relationships have been mitigated.

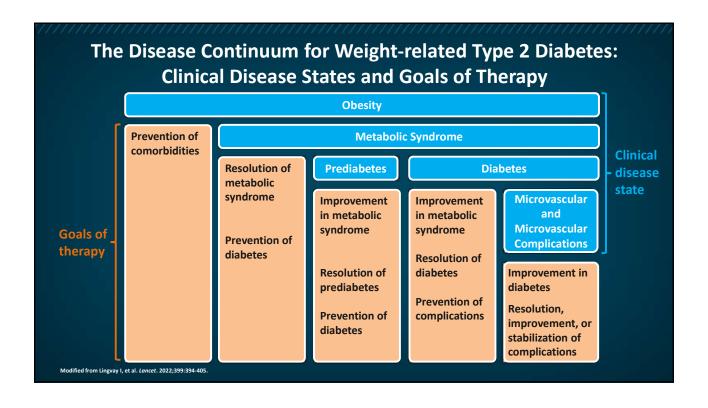
This activity is supported by an educational grant from Lilly.

Learning Objectives

 Implement shared decision-making strategies to help patients with type 2 diabetes select and follow through with informed options for weight loss







Assessment (ADA Standards of Care)

- 8.1 Use patient-centered, nonjudgmental language that fosters collaboration between patients and providers, including people-first language (eg, "person with obesity" rather than "obese person"). E
- 8.2 Measure height and weight and calculate BMI at annual visits or more frequently. Assess weight trajectory to inform treatment considerations. **E**
- 8.3 Based on clinical considerations, such as the presence of comorbid heart failure or significant unexplained weight gain or loss, weight may need to be monitored and evaluated more frequently. B If deterioration of medical status is associated with significant weight gain or loss, inpatient evaluation should be considered, especially focused on associations between medication use, food intake, and glycemic status. E

ADA evidence grading system: A = clear evidence from well-conducted, generalizable randomized, controlled trials that are adequately powered; B = supportive evidence from well-conducted cohort studies; C = supportive evidence from poorly controlled or uncontrolled studies; E = expert consensus or clinical experience.

ElSayed NA, et al. Diabetes Care. 2023;46(suppl 1):S128-S139. ElSayed NA, et al. Diabetes Care. 2023;46(suppl 1):S1-S4.

Assessment (ADA Standards of Care) (cont'd)

- **8.4** Accommodations should be made to provide privacy during weighing. **E**
- 8.5 Individuals with diabetes and overweight or obesity may benefit from modest or larger magnitudes of weight loss. Relatively small weight loss (approximately 3%-7% of baseline weight) improves glycemia and other intermediate cardiovascular risk factors. A Larger, sustained weight losses (>10%) usually confer greater benefits, including disease-modifying effects and possible remission of T2DM, and may improve long-term cardiovascular outcomes and mortality. B

ADA evidence grading system: A = clear evidence from well-conducted, generalizable randomized, controlled trials that are adequately powered; B = supportive evidence from well-conducted cohort studies; C = supportive evidence from poorly controlled or uncontrolled studies; E = expert consensus or clinical experience.

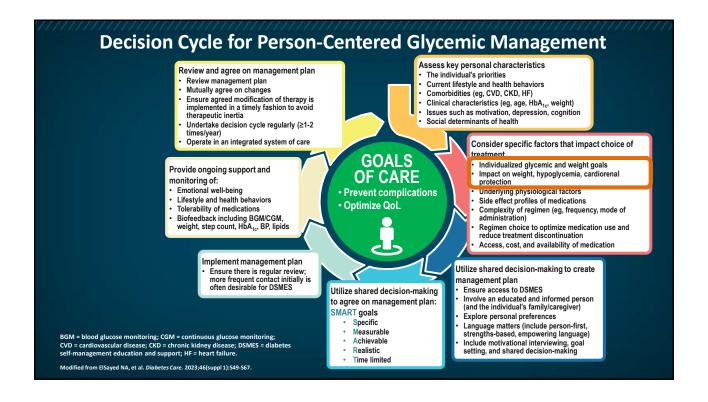
ElSayed NA, et al. Diabetes Care. 2023;46(suppl 1):S128-S139. ElSayed NA, et al. Diabetes Care. 2023;46(suppl 1):S1-S4

Pharmacotherapy (ADA Standards of Care)

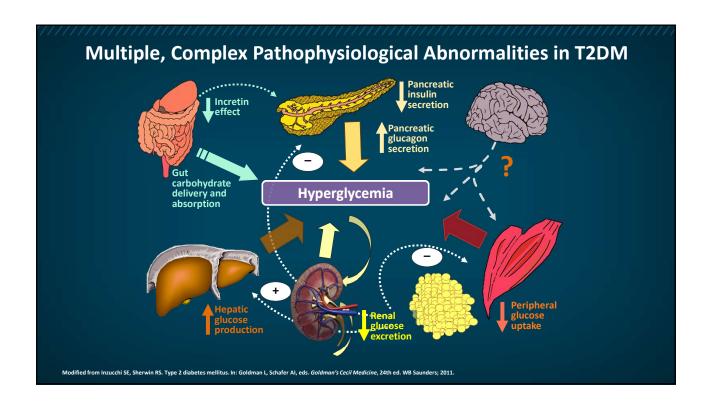
- 8.14 When choosing glucose-lowering medications for patients with T2DM and overweight or obesity, consider a medication's effect on weight. B
- **8.15** Whenever possible, minimize medications for comorbid conditions that are associated with weight gain. **E**
- 8.16 Weight loss medications are effective as adjuncts to diet, physical activity, and behavioral counseling for selected people with T2DM and BMI ≥27 kg/m². Potential benefits and risks must be considered. A
- 8.17 If obesity pharmacotherapy is effective (typically defined as ≥5% weight loss after 3 months of use), further weight loss is likely with continued use. When early response is insufficient (typically <5% weight loss after 3 months of use) or if there are significant safety or tolerability issues, consider discontinuation of the medication and evaluate alternative medications or treatment approaches. A</p>

ADA evidence grading system: A = clear evidence from well-conducted, generalizable randomized, controlled trials that are adequately powered; B = supportive evidence from well-conducted cohort studies; C = supportive evidence from poorly controlled or uncontrolled studies; E = expert consensus or clinical experience.

ElSayed NA, et al. Diabetes Care. 2023;46(suppl 1):5128-5139. ElSayed NA, et al. Diabetes Care. 2023;46(suppl 1):51-54.



Weight status category	BMI (kg/m²
Underweight	<18.5
Normal weight	18.5-24.9
Overweight	25.0-29.9
Class 1 obesity	30.0-34.9
Class 2 obesity	35.0-39.9
Class 3 obesity	≥40



Assessment (ADA Standards of Care)

- 8.1 Use patient-centered, nonjudgmental language that fosters collaboration between patients and providers, including people-first language (eg, "person with obesity" rather than "obese person"). E
- **8.2** Measure height and weight and calculate BMI at annual visits or more frequently. Assess weight trajectory to inform treatment considerations. **E**
- 8.3 Based on clinical considerations, such as the presence of comorbid heart failure or significant unexplained weight gain or loss, weight may need to be monitored and evaluated more frequently. B If deterioration of medical status is associated with significant weight gain or loss, inpatient evaluation should be considered, especially focused on associations between medication use, food intake, and glycemic status. E

ADA evidence grading system: A = clear evidence from well-conducted, generalizable randomized, controlled trials that are adequately powered; B = supportive evidence from well-conducted cohort studies; C = supportive evidence from poorly controlled or uncontrolled studies; E = expert consensus or clinical experience.

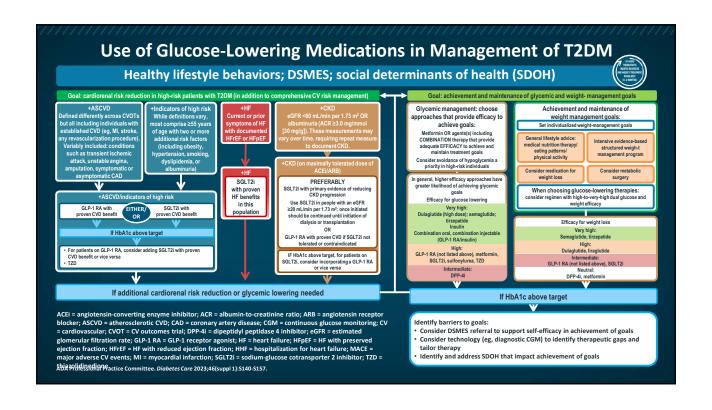
ElSayed NA, et al. Diabetes Care. 2023;46(suppl 1):S128-S139. ElSayed NA, et al. Diabetes Care. 2023;46(suppl 1):S1-S4.

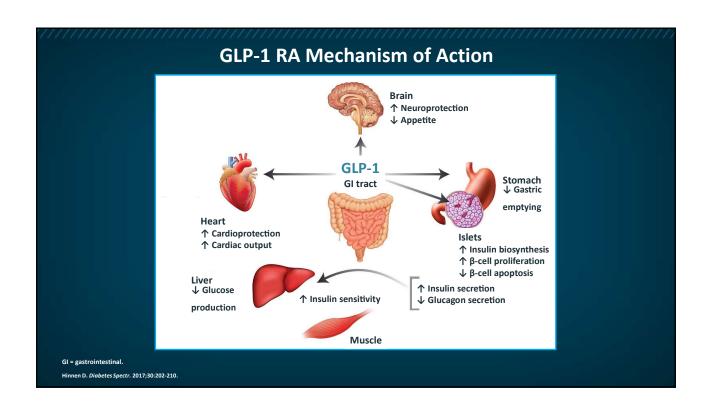
Assessment (ADA Standards of Care) (cont'd)

- 8.4 Accommodations should be made to provide privacy during weighing. E
- 8.5 Individuals with diabetes and overweight or obesity may benefit from modest or larger magnitudes of weight loss. Relatively small weight loss (approximately 3%-7% of baseline weight) improves glycemia and other intermediate cardiovascular risk factors. A Larger, sustained weight losses (>10%) usually confer greater benefits, including disease-modifying effects and possible remission of T2DM, and may improve long-term cardiovascular outcomes and mortality. B

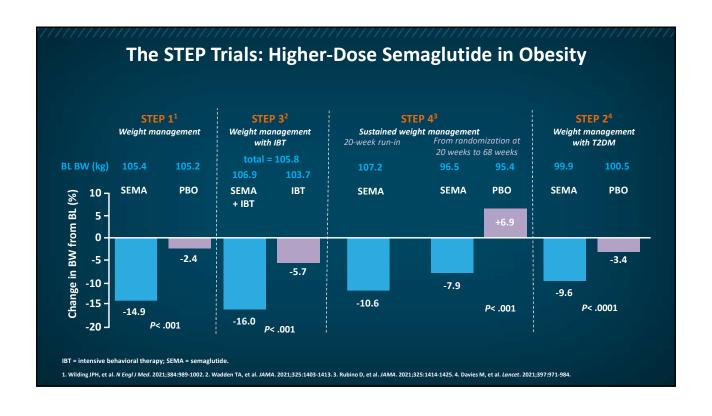
ADA evidence grading system: A = clear evidence from well-conducted, generalizable randomized, controlled trials that are adequately powered; B = supportive evidence from well-conducted cohort studies; C = supportive evidence from poorly controlled or uncontrolled studies; E = expert consensus or clinical experience.

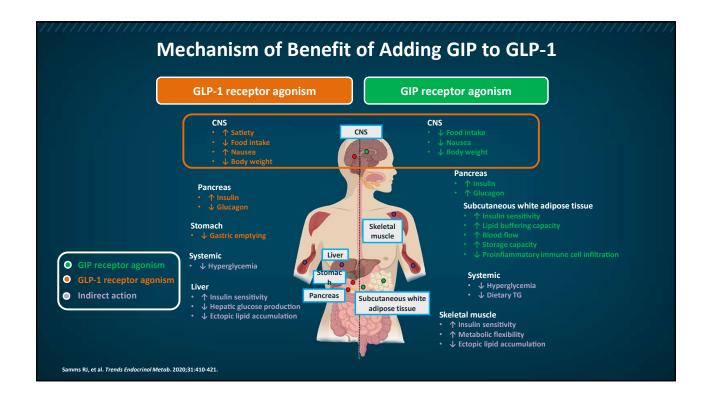
ElSayed NA, et al. Diabetes Care. 2023;46(suppl 1):S128-S139. ElSayed NA, et al. Diabetes Care. 2023;46(suppl 1):S1-S4

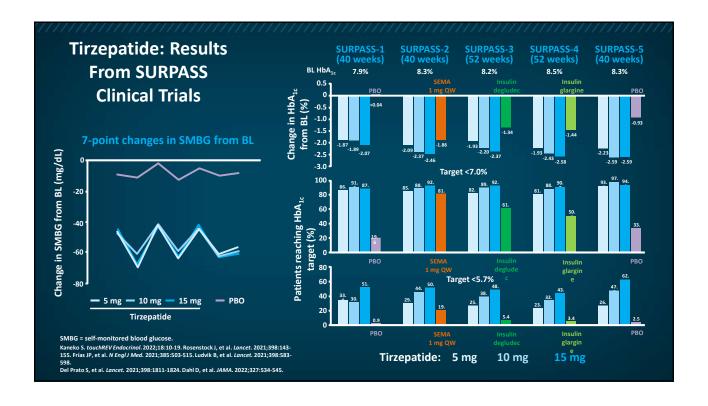


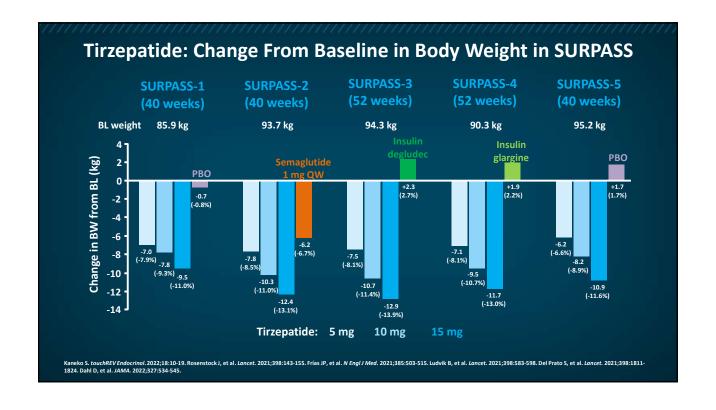


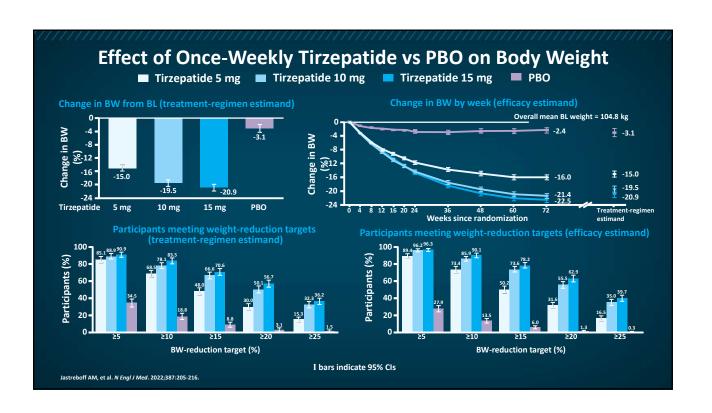
Trial	Participant characteristics	PBO- corrected weight loss	≥5% BW loss		≥10% BW loss	
			Liraglutide 3.0 mg	PBO	Liraglutide 3.0 mg	РВО
Astrup et al, 2009	76% women, stable body weight, BMl ≥30 kg/m² and ≤40 kg/m²	-4.4 kg	76.1%	29.6%	28.3%	2.0%
Astrup et al, 2012	76% women, stable body weight, BMI ≥30 kg/m² and ≤40 kg/m²	-5.8 kg	73%	28%	37%	10%
Wadden et al, 2013	81% women, stable body weight, BMI ≥30 kg/m² or ≥27 kg/m² with dyslipidemia or hypertension; lost ≥5% of initial body weight in low- calorie diet run-in period (4-12 weeks)	-5.9 kg	50.5%	21.8%	6.1%	6.3%
Pi-Sunyer et al, 2015	78% women, stable body weight, BMI ≥30 kg/m² or ≥27 kg/m² if with dyslipidemia or hypertension	-5.6 kg	63.2%	27.1%	33.1%	10.6%
Davies et al, 2015	50% women, stable body weight, BMI≥27 kg/m²; T2D (HbA _{1c} = 7.0%-10.0%) treated with diet and exercise alone or in combination with 1-3 oral hypoglycemic agents	-4.2 kg	54.3%	21.4%	25.2%	6.7%
Blackman et al, 2015	28% women, stable body weight, BMI ≥30 kg/m², moderate-to-severe obstructive sleep apnea, cPAP = continub0YillisiNa-Gri/Wapples,0ru-thacGribAP, PBO = placebo.	-4.9 kg	46.4%	18.1%	22.4%	1.5%

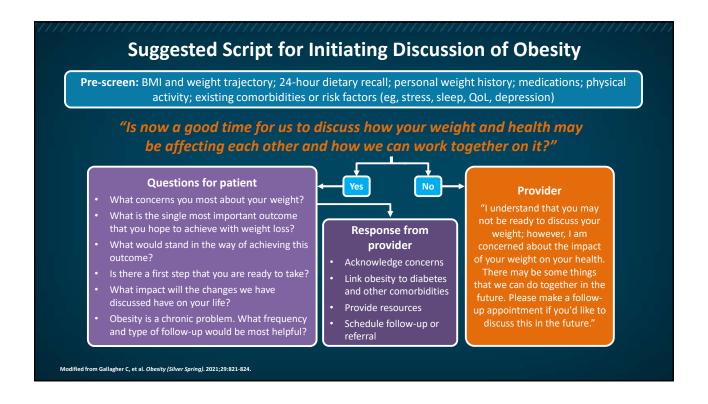


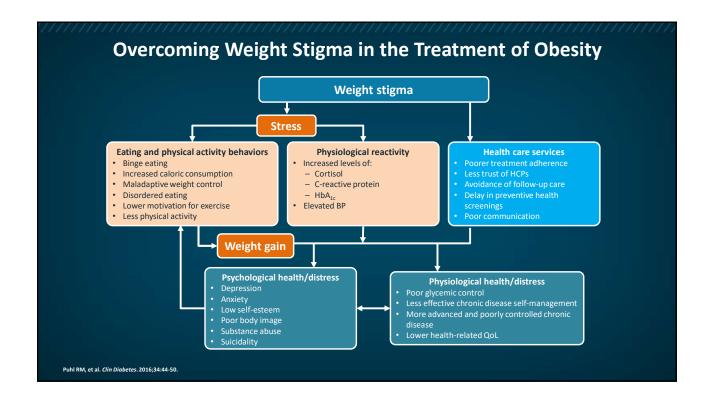












Core Components of Shared Decision-Making Meaning **Objective** Recognize when best current evidence Create a conversation shows there is no clear best choice for a and partnership

(both ways)

Justify

talk

particular decision **Share information** Inform patient of available options and 2-way exchange of highbenefits and harms of each of them; quality information listen to patient's concerns and opinions about options and evidence Listen and elicit patient's preferences Understand what patient about outcomes, goals, concerns, and values most, given the

Elicit values and preferences (both ways) Shared decision

priorities for treatment Reach a decision after integrating all information (including possibilities of no treatment or deferral of the decision)

circumstances Reach a decision that fits unique patient's values, preferences, and context

Modified from Rodriguez-Gutierrez R, et al. Lancet Diabetes Endocrinol. 2016;4:706-716.

Δn	proa	ch:	The	5Δc
AN	piva			2/45

Ask the patient's permission **ASK** "Would you be willing to discuss your weight and the treatment options?" Usual PMH/PSH including weight history, family history of obesity, **ASSESS**

obesogenic medications; review food intake, current activity, sleep duration, and stressors

ADVISE Advise on treatment options

Utilize motivational interviewing and shared decision-making to develop a **AGREE** plan of treatment from the options discussed

During follow-up visits, assist the patient in staying on track and reassess for **ASSIST** needed changes in treatment; provide referrals and resources

PMH = prior medical history; PSH = prior social history.

O'Shea D, et al. Adv Ther. 2021;38:4138-4150. Schlair S, et al. JCOM. 2012;19:221-229. Jay M, et al. BMC Health Serv Res. 2010;10:159.

