OBESITY MANAGEMENT IN PRIMARY CARE TRAINING AND CERTIFICATE PROGRAM



Applying Foundations of Care When Obesity is the Chief Complaint

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Faculty and Disclosure Statement

Link Burningie is an internationally respected obsily modifier PA. She has reached the highest level of training in obserity medicine for PAs, receiving the Certificate of Advanced Educations in Descrip the 4207 OMA Committee Laderfully Advanced the 2020 International Communities and the 2020 DF He 4207 OMA Committee Laderfully Advance the 2020 International Communities and the 2020 DF Raymond E. Dietz Meritorious Service Award for her contributions to the Obselity Medicine Association.

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Karil founded her company, Galing Health, in 2020 to provide resources and tools for clinicians who want to start or optimize an obesity management program without having to recreate the wheel. More than anything, the appreciates being able to help educate and support other healthcare providers on how to provide optimal evidence-based care for individuals with pre-observity and obesity.

Disclosures: • Consultant: Novo Nordisk, Bariatric Advantage • Advisor: Gelesis Biotechnology, Currax Pharmaceuticals, Vivus • Sneaker's Bureau: Currax Pharmaceuticals, Vivus







Weight: 203 lbs; height: 67"	Chem Profile	Value	Behavioral Screene	rs
BMI: 32 kg/m ² Waist circumference: 96 cm	Glucose	102 mg/dL	PHQ-9	10/27
	HbA1c	5.8%	Binge Eating Scale	19
• BP: 126/88 mm Hg; HR: 92 bpm	тс	210 mg/dL	Self-reported	7/10
 Remainder of physical exam unremarkable 	LDL-C	130 mg/dL	stress Hours per night of	
Labs: CBC normal	TG	150 mg/dL	sleep	7-8
Labs. CBC Horman	HDL-C	40 mg/dL		
	тѕн	2.2 mIU/L		



Obesity Assessment Weight History and Therapeutic Decision-making















	Question	?
Which of the following is an obesogenic medication/class?	A. ACE inhibitors B. Fluoxetine C. Propranolol D. Ziprasidone	
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Obesogenic Medications						
Category	Drugs That May Cause Weight Gain	Possible Alternatives				
Neuroleptics	Thioridazine, haloperidol, olanzapine, quetiapine, risperidone, clozapine	Ziprasidone, aripiprazole				
Antidiabetic agents	Insulin, sulfonylureas, thiazolidinediones	AGIs, DPP-4i, SGLT2i, GLP-1 RAs, metformin				
Steroid hormones	Glucocorticoids, progestational steroids	Barrier methods, NSAIDs				
Tricyclics (ADs)	Amitriptyline, nortriptyline, imipramine, doxepin	Protriptyline, bupropion, nefazodone				
MAOIs (ADs)	Phenelzine					
SSRIs (ADs)	Paroxetine	Fluoxetine, sertraline				
Other (ADs)	Mirtazapine, duloxetine	Bupropion				
Anticonvulsants	Valproate, carbamazepine, gabapentin, pregabalin, vigabatrin	Topiramate, lamotrigine, zonisamide, felbamate				
Antihistamines	Cyproheptadine	Inhalers, decongestants				
β- and α-adrenergic blockers	Propranolol, doxazosin, metoprolol	ACEIs, CCBs				



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 During the last 3 months, did you have any episodes of excessive overeating (ie, eating significantly more than what most people would eat in a similar period of time)?

Do you feel distressed about your episodes of excessive overeating?

 During your episodes of excessive overeating, how often did you feel like you had no control over your eating (eg, not being able to stop eating, feeling compelled to eat, or going back and forth for more food)?

Herman BK, et al. Prim Care Componion CNS Disord. 2016;18(2):10.4058/PCC.15m01896. Copyright © 2022 AAPA, TCS, NACE J.

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	Recurrent episodes of binge eating: an episode of binge eating is characterized by both of the following:
Criterion 1:	 Recurrent episodes or binge eating; an episode or binge eating is characterized by both of the following: Eating, in a discrete period of time (e.g., within any 2-hour period), an amount of food that is definitely larger than most people would eat in a similar period of time under similar circumstances
	 The sense of lack of control over eating during the episode (e.g., a feeling that one cannot stop eating or control what or how much one is eating)
Criterion 2:	Binge-eating episodes are associated with three (or more) of the following:
	Eating much more rapidly than normal
	Eating until feeling uncomfortably full Eating large amounts of food when not feeling physically hungry
	Eating large amounts of folds when not reeing physically rangely Eating alone because of being embarrassed by how much one is eating
	Earling alone because of being embarrassed by now inder one is earling Feeling disgusted with oneself, depressed, or very guilty after overeating
Criterion 3:	Marked distress regarding binge eating is present
Criterion 4:	The binge eating occurs, on average at least 1 day a week for 3 months (DSM-5 frequency and duration criteria)
Criterion 5:	The binge eating is not associated with the regular use of inappropriate compensatory behavior (e.g., purging, fasting, excessive exercise) and does not occur exclusively during the course of anorexia nervosa or bulimia nervosa
	Mild: 1 to 3 episodes per week
Severity Grading:	Moderate: 4 to 7 episodes per week
severity oroung.	Severe: 8 to 13 episodes per week

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Nutrition Counseling

Nutrition History and Counseling

Nutrition History

Nutrition Recall

- Short term or long term
 24-hour nutrition recall
- Quick method to determine patterns, habits, choices
 Info: family, social/work environment, socio-economic factors, nutrition understanding
- Helps to formulate your shared plan based on your patient's preferences and current nutrition and your nutritional guidance

Shared Decision-making

- Improved quality of decision-making process
- Establishes context
 Value and preferences of the patient
- Identifies areas of patient uncertainty
 Risks and benefits of treatment plans or course of action
- Team approach: cohesive therapy approaches

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Assessing Knowledge: ASK

- "I'd like to learn more about you so that we can formulate a plan that works for YOU, if that's okay."
- "Let's go through your typical day. What are some examples of what you would eat for breakfast, lunch, dinner, snacks, etc.? Let's start with the first thing you eat or drink and go from there."
- "Tell me about the weekends—do you find yourself eating differently?"
- "What do you like to drink with your meals throughout the day?"
- "Who grocery shops/prepares meals in your house?"
- "What does healthy eating mean to you?"
- "What types of nutrition plans have you tried in the past? What worked well or didn't work well for you?"
- "Do you (or have you ever) read nutrition labels?"

bo you (of have you ever) read nutrition label

	Determining Lifestyle Diet Treatment: ASK
Your plan 1. Meet the patient where he or she is 2. Set realistic expectations with the patient 3. Negative perceptions may lead to clinical inertia	 Ask about past nutritional changes: "What did you like vs what didn't you like?" "Why do you think this worked (or didn't)?" "What do YOU think your biggest food struggles are?" "What is your biggest challenge with changing your nutrition?" "How does your family feel about changing the food at home?"

Realistic Weight Reduction Goals	Realistic Nutrition Changes	Realistic Outcomes	
	Be wary of restriction/	Find the MIDDLE GROUND (no "all or nothing")	
1-2 pounds per week	binge pattern	Weight reduction may be slower— but less restrictive and more sustainable	
10% reduction in 6 months	Limit ultra-processed foods and Promote whole-foods	Focusing on "health behavior goals as opposed to "scale goals"	
"Goal weight" or "ideal weight" may not be achievable and may feel overwhelming	Focus on smaller, attainable goals, focus on "Big Why" and quality of life over # on scale	 Is it working? Is it sustainable? 	

Provide Resources

- Provide ideas that are easy to implement-small changes add up over time
- Meal and/or snack options
- Grocery lists
- Healthier options when eating out
- Online tools (websites, apps, support, accountability)
- Find and celebrate small successes ("I only ate one slice of pizza vs the whole pizza")
- Turn the negative into a positive learning experience: "You learned something about yourself. You need to have some healthful snacks on hand when you fly so you don't eat airport junk food."
- · Use other successful patients' eating plans as an example

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Case 1: Follow-up at 6 Months

- You treat the patient in the office. She chooses to follow a structured lifestyle
 program and incorporate self-monitoring of her weight, nutrition, and physical
 activity. She sets a nutrition goal and spends more time planning and
 preparing her own meals and snacks. You schedule follow-up office visits for
 monitoring, reinforcement, and counseling.
- Over the next 4 months she successfully loses 6% (12 lbs) of her body weight, but similar to her past history, she experiences weight regain over months 5 and 6. She returns to your office having regained 5 lbs. She is frustrated and more depressed about her weight. She wants to know what else she can do.
- She is monitoring her steps but has not found a consistent way to increase her physical activity.

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tual Loggii	ng			
Food	Time	Emotion	Hunger (1-10)	Activity
% c.Greek yogurt with 5 strawberries and % c.granola	7:35am	Content, happy	7	Sitting at the kitchen table, thinking about my meeting at 8am.
Coffee with dream and ½ chocolate donut	9:15am	Anxious, frustrated	3	Breakroom at work, meeting didn't go great: Was only planning to have the coffee, but Kim brought donuts and I couldn't resist:
Cobb salad with dressing and piece of bread	12:30pm	More calm	6	Grabbed lunch from the shop downstairs and ate while working at my desk.













Current Anti-obesity Medications (AOM) Agents Mechanism of Action Effect Sympathomimetic Phentermine Appetite regulation Sympathomimetic Phentermine/ • Sympatromimetic topiramate ER (Qsymia*) • Anticonvulsant (GABA receptor modulation, carbonic anhydrase inhibition, glutamate antagonism) Appetite regulation Naltrexone/bupropion SR • Opioid receptor antagonist (Contrave®) • Dopamine/noradrenaline reuptake inhibitor Appetite regulation Liraglutide (Saxenda®) GLP-1 receptor agonist Appetite regulation Orlistat (Xenical® or Alli®) • Pancreatic lipase inhibition Reduces fat absorption Semaglutide (Wegovy®) GLP-1 receptor agonist Appetite regulation











Findin	g a Heal	th Psyc	holo	gist					
	ral medicin edical or cli			SW/Psy	D/PhD)	within	your instit	ution	or
 Interve 	r experient ntions used (CBT), acc	d: motivat	ional i	ntervie	wing (N	11), cogn	itive behav	vioral	
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Follow Up (Month 5 and 6)

- Diet Fatigue:
- Motivation is not linear
- Praise success, non-scale victories
- Discuss challenges; "troubleshoot"Reconnect with goals
- Revisit eating plan
- Try something new







	ry:
Breakfast	Skipped
Lunch (11:30am)	Restaurant meal with clients
Dinner (7pm)	At home, with family, large portion sizes
Snacks	Up late, watching TV and snacking after family goes to bed

 Weight: 278 lbs; height: 70": 	Labs		Behavioral Scre	eners
BMI: 40 kg/m ²	FBS	95 mg/dL	PHQ-9	2/27
• BP: 128/62 mm Hg	HbA1c	6.9%	Binge Eating	13
 HR: 92 bpm Heart: Grade 2/6 SEM at apex 	BUN	19 mg/dL	Scale	15
	тс	152 mg/dL	Self-reported stress	4/10
Extremities: dystrophic	LDL-C	80 mg/dL		5-7 hours
skin changes, 1+	TG	181 mg/dL	Hours per night of sleep	- feels unrefreshed /
edema	HDL-C	38 mg/dL		not using CPAP

	Orlistat ¹	Phentermine/ topiramate ER ²	Naltrexone/ bupropion SR ³	Liraglutide 3.0 mg⁴	Semaglutide 2.4 mg⁵
WC		4	¥	¥	¥
BP		4	^	4	4
LDL	$\downarrow \downarrow$	4	4	4	¥
HDL	^	^	^	1	^
TG	++	++	++	++	$\uparrow \uparrow$
A1C		4	4	+++	+++
HR		-	^	^	^
Diabetes	++	++	¥	+++	$\uparrow \uparrow \uparrow$





Considerations for Surgical Treatment May be an option for patients with: Long-term

 BMI 35-39.9 kg/m² and ≥1 obesity-related comorbidity

- BMI ≥40 kg/m²
- Long-term reduction in: • Body weight
- Cardiovascular biomarkers, events
- Other weight-related complications

Need for ongoing support and intervention

25 Suppl 2):5102-5138. Arterburn DE, et al. Br Med J. 2014;349;g3961. Toh SY, et al. Nutrition. 2009;25(11-12):1150-115 Copyright V2002 AMPA, ToS, NAUE, All rights reserved.

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Case 2: Follow Up

- You discuss all options with the patient.
- He attends a group discussion of revisional bariatric surgery but says, "I want to try
- something less aggressive."
 He is not taking a bariatric multivitamin—agrees to have labs checked and re-start a bariatric-specific multivitamin.
- baratric-specific multivitamin. He agrees to work on his nutrition and agrees to the use of meal replacement products for greater calorie and portion control. He is started on a 1500-calorie diet.
- He is not interested in increasing physical activity.
- He also agrees to discuss possible medications to aid in his nutrition efforts.
- You tell him that his diabetes medications may need monitoring during weight reduction.

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Obesity and Sleep

	Eating Syndrome—DSM-5
Technica	lly: Other Specified Feeding or Eating Disorder (OSFED)
Criterion 1:	The daily pattern of eating demonstrates a significantly increased intake in the evening and/or nighttime, as manificated by one or both of the following: A least 25% of fool intake is consumed after the evening meal • At least 25% of pointake is consumed after the evening meal
Criterion 2:	Awareness and recall of evening and nocturnal eating episodes are present.
Criterion 3:	The clinical picture is characterized by at least three of the following features: Lack of desire to eait in the moring and/or breakfast is omitted on four or more mornings per week Presence of a storage urge to eat between dinner and sleep onset and/or during the night Sleep onset and/or sleep maintenance insomnia are present four or more nights per week Presence of a belief that one must eat in order to initiate or return to sleep Modo is frequently depressed and/or worsens in the evening
Criterion 4:	The disorder is associated with significant distress and/or impairment in functioning.
Criterion 5:	The disordered pattern of eating has been maintained for at least 3 months.
Criterion 6:	The disorder is not secondary to substance abuse or dependence, medical disorder, medication, or another psychiatric disorder.





Meal Replacements

- Meal Replacements: liquid meals, meal bars, calorie-controlled packaged meals
 Supporting Evidence: Substituting one or two daily meals or snacks with meal replacements is a successful weight reduction and weight maintenance strategy.
- Most Overheard Concerns: Processed foods... consider the alternative



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Case 2

• Through shared decision-making, the patient chooses to try liraglutide 3.0 mg and you provide a prescription. He is instructed on pen use and drug administration, including titration over the first month.

- Over the next 6 months, he loses 22 lbs (8% of initial body weight). Weight is now 256 lbs. New BMI = 36.8 kg/m² (Class II obesity)
- Labs:
- Glucose: 102 mg/dL
- A1C: 6.2%
 TC: 174 mg/dL
- LDL-C: 104 mg/dL
- HDL-C: 51 mg/dL
 TG: 95 mg/dL
- Weight and labs remain stable over an additional 6 months

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Measures of glycemia ¹	-3%
Triglycerides ¹	-378
HDL cholesterol ¹	
Systolic and diastolic blood pressure	
Hepatic steatosis measured by MRS ²	
Measures of feeling and function:	-5%
Symptoms of urinary stress incontinence ³	_
Measures of sexual function ^{4,5}	_
Quality of life measures (IWQOL) ⁶	
NASH Activity Score measured on biopsy ⁷	
Apnea-hypopnea index ^s	-10%
Reduction in CV events, mortality, remission of T2DM	-15%





