Anti Obesity Medications & How they affect the GI tract

Dr. Paul Chandler



Disclosures

None



Today's Goals

Understand obesity and its risks

Learn about weight loss treatments

Learn about anti obesity medications

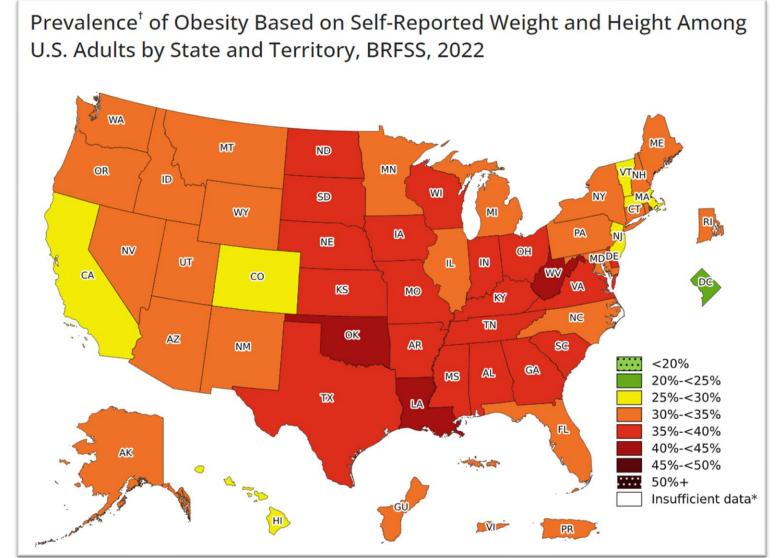
What to expect with patients on these meds

Questions and discussion



Obesity is a common & chronic disease

42.4% of U.S. adults have obesity and 9.2% have severe obesity!







Wegovy shown to cut risk of stroke and heart attacks, company says









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ON THE SHOW SHOP WELLNESS PARENTS FOOD

TODAY all day





NEWS

Ozempic class of drugs linked to rare but severe stomach problems, study finds

A patient has already sued, alleging 'severe gastrointestinal issues' from the Type 2 diabetes treatment, which has become a popular weight-loss drug.



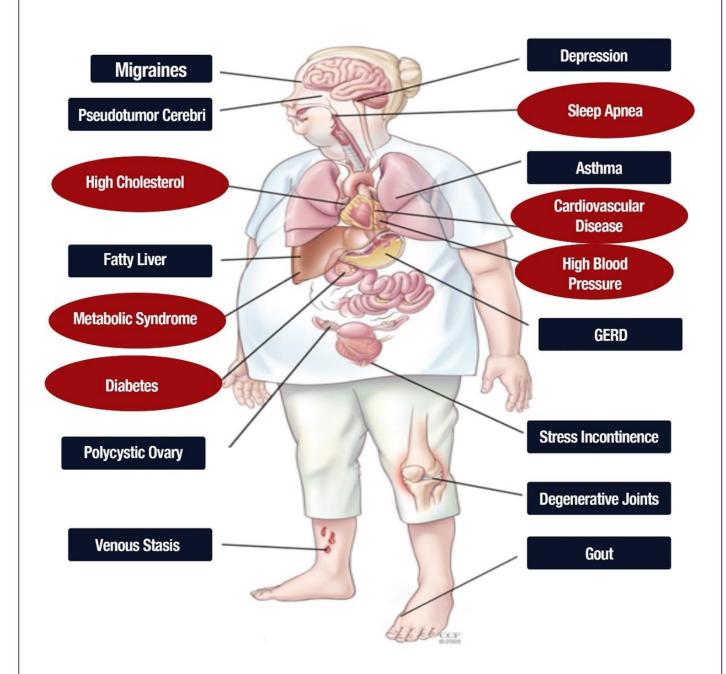
Biology of Fat

Stores excess energy

Communicates with the brain and body

Excess fat →
Obesity → Chronic
Disease



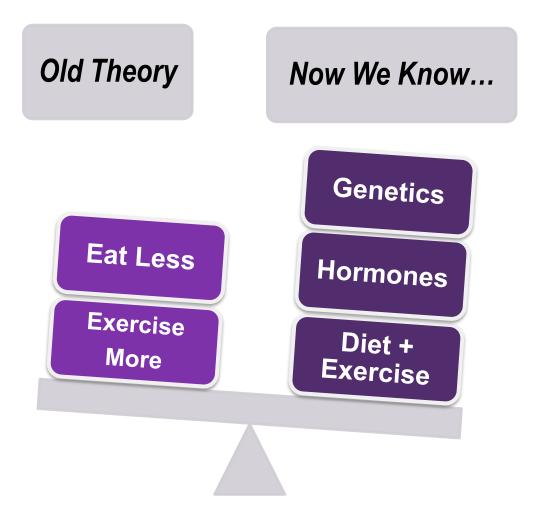


Risks of Obesity

Overweight and obesity were associated with nearly 1 in 5 deaths (18.2%) in the U.S. according to a study published in the *American Journal of Public Health*.



Weight Loss Treatment





6 FDA approved anti-obesity medications

- phentermine (Adipex-P, Lomaira)*
- orlistat (Alli, Xenical)
- phentermine/topiramate ER (Qsymia)
- naltrexone SR/bupropion SR (Contrave)
- liraglutide 3.0 mg (Saxenda)
- semaglutide 2.4 mg (Wegovy)



Phentermine (Adipex, Lomaira)



Stimulant

Cheapest

6.1% total weight loss at 1 year on max dose



Orlistat (Alli, Xenical)



- Lipase inhibitor
- Steatorrhea, fecal urgency, fecal incontinence
- Fat-soluble vitamin deficiency
- 8.8% total weight loss



Phentermine/Topiramate EX (Qsymia)



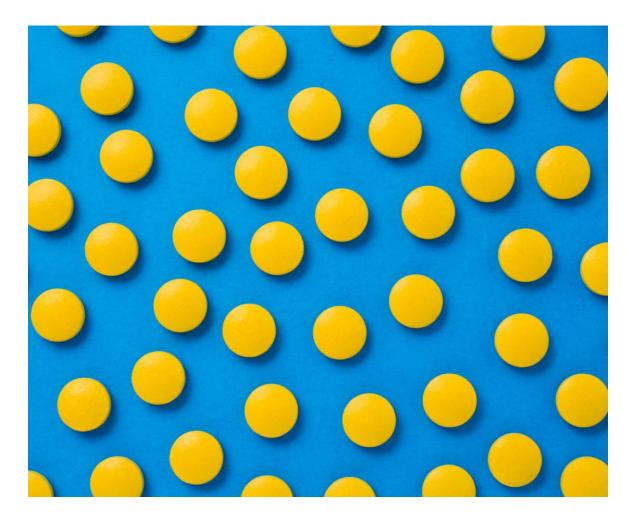
Stimulant and neurostabilizer/migraine

9.8% total weight loss

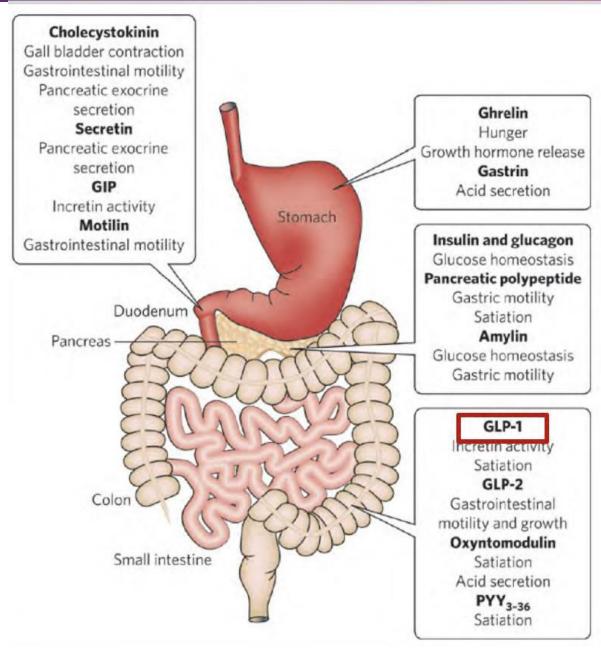


Naltrexone/Buproprion (Contrave)

- Mu (opioid) antagonist
- Depression/smoking cessation dopamine and norepinephrine reuptake inhibitor
- Nausea, vomiting, constipation
- 6.1% total weight loss







GLP-1

- Glucagon-like peptide-1
- Source: enteroendocrine cells (L cells) – ileum
- Action: pancreas, brain, heart
- Increases beta cell insulin secretion, slows gastric emptying, increases satiety
- Post-prandial levels are decreased in obesity
- GLP-1 analogues:
 - FDA-approved for treatment of T2D in adults and children
 - FDA-approved for obesity treatment in adults (liraglutide & semaglutide)
 - FDA-approved for obesity treatment in adolescents (liraglutide)

Liraglutide (Saxenda/Victoza)



GLP-1 analog



0.6-3.0mg subcutaneous daily



8.0% TWL at 1 year (max dose)



Nausea, vomiting, diarrhea, constipation, dyspepsia, abdominal pain



Delayed gastric emptying



Semaglutide (Wegovy/Ozempic/Rybelsus)



GLP-1 Anaglog

Wegovy 0.25-2.4mg subcutaneous weekly

Ozympic 0.25-1.0mg subcutaneous weekly

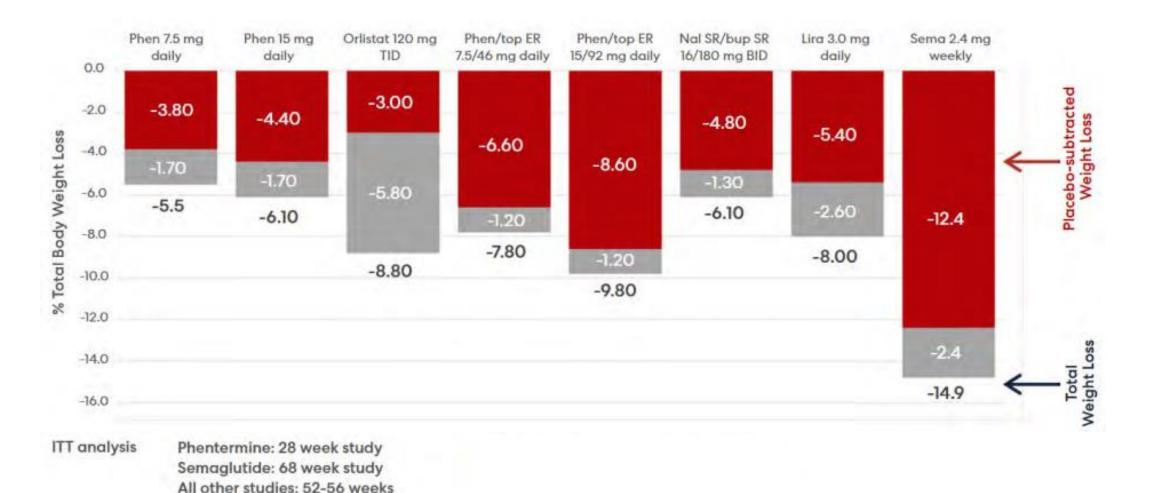
14.9% total weight loss

Nausea, vomiting, diarrhea, constipation, dyspepsia, abdominal pain

Delayed gastric emptying

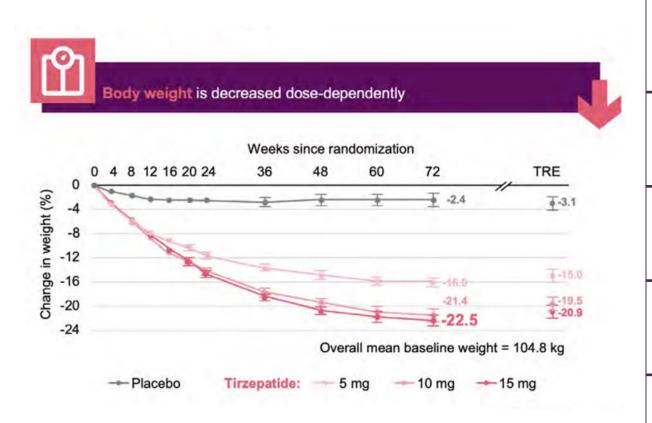


FDA approved anti-obesity medications





Tirzepatide (Mounjaro)



GLP-1 and GIP analogue

Off label for obesity treatment

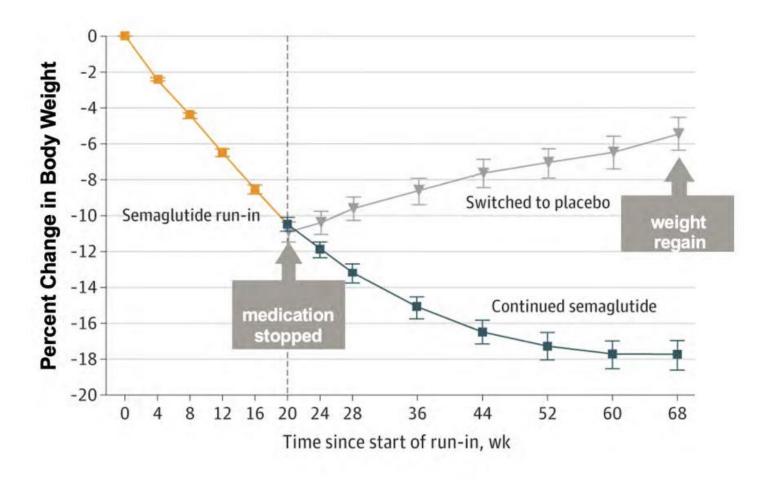
5-15mg subcutaneous weekly

Nausea, vomiting, diarrhea, constipation

Delayed gastric emptying



Weight recurrence after stopping anti obesity medication





If patients can afford it and get it

Drug	Average Retail Price (per month)*	Lowest Retail Price (per month)*
Metformin (120 tablets)	\$32.66	\$3.80
Empagliflozin	\$681.64	\$578.51
Canagliflozin	\$676.14	\$582.89
Dulaglutide	\$1,039.85	\$809.91
Victoza (liraglutide 1.8 mg)	\$1,116.23	\$1,081.35
Saxenda (liraglutide 3.0 mg)	\$1,608.12	\$1,304.68
Rybelsus (PO semaglutide)	\$1065.92	\$907.22
Ozempic (semaglutide 2.0 mg)	\$1,015.97	\$907.22
Wegovy (semaglutide 2.4 mg)	\$1,718.50	\$1,304.68
Tirzepatide	\$1,179.85	\$991.16



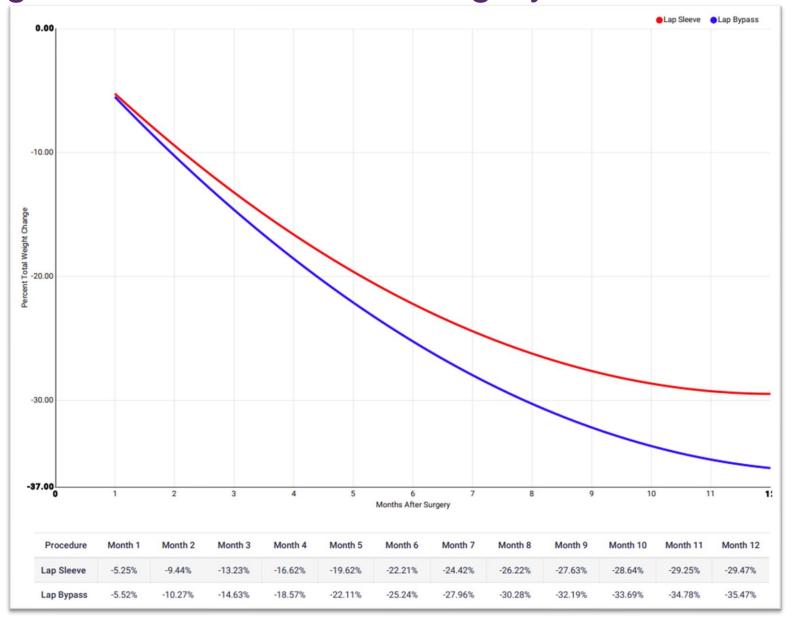
American Society of Anesthesiologists Guidelines

Patients on GLP-1 agonists

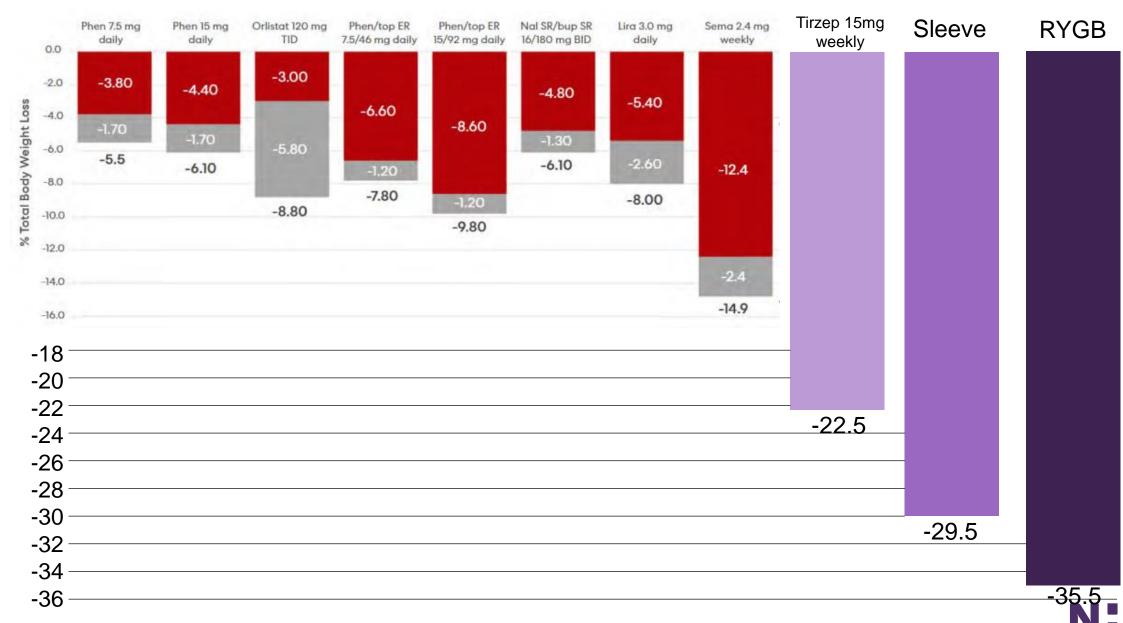
- Hold day of the procedure (daily formulations) or 1 week prior (weekly formulations)
- If no GI symptoms and med held accordingly, proceed as usual
- If GI symptoms are present, consider delaying elective procedure or treat as 'full stomach'
- If not held as advised and no GI symptoms, consider delaying elective procedure or treat as 'full stomach'
- There is no evidence to suggest optimal duration of fasting for patients on GLP-1 agonists, so follow current guidelines



% Total Weight loss after bariatric surgery









"The future of obesity treatment is multidisciplinary. It will include a combination of diet, exercise & behavioral counseling, as well as medication & surgery."

Thank you

Dr. Paul Chandler

