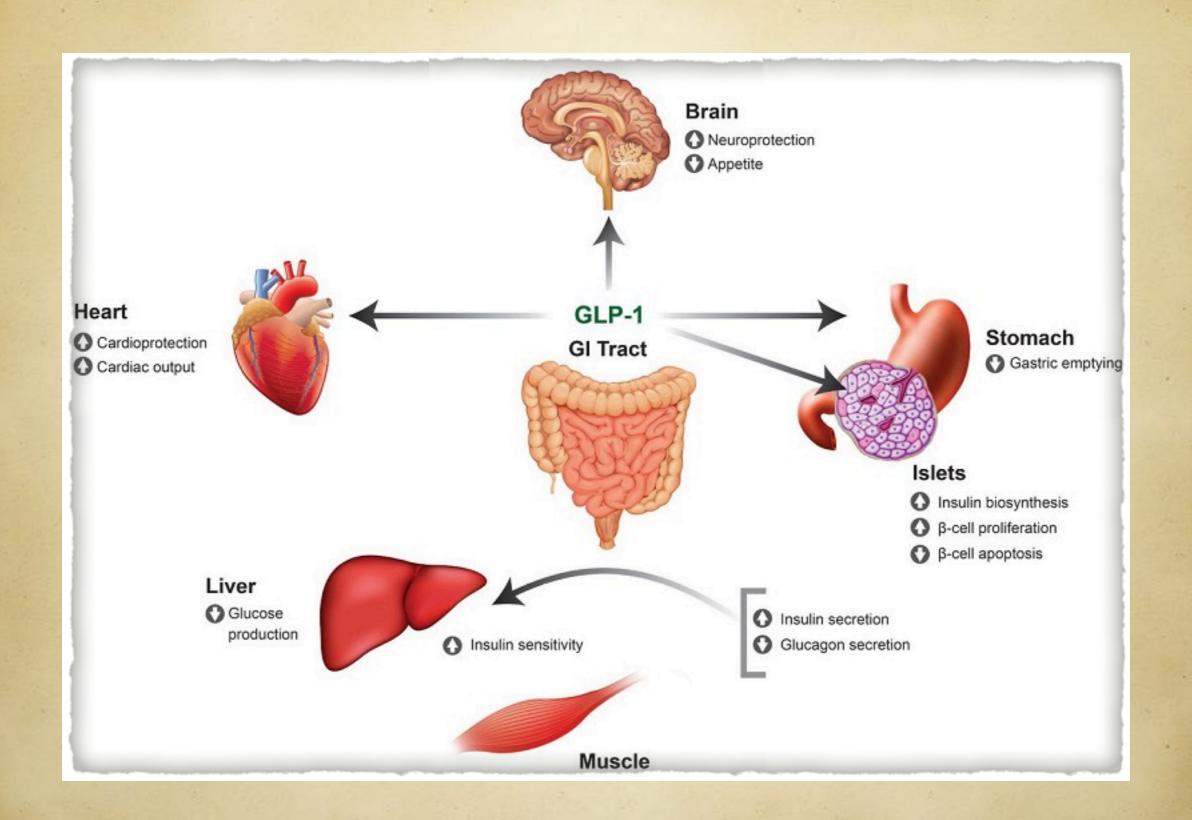
Antiobesity Medication

Ayesha Hassan

GLP-1 and GLP-1/GIP Agonist (injectables)

GLP-1 Agonist

- Solucing on like peptide approved for DM2 and obesity
- Reduce gastric emptying, stimulate insulin release, reduce glucagon release, increase insulin sensitivity, and reduce appetite in the brain



Side effects and contraindications

> Nausea, reflux, diarrhea, constipation

Severe side effect: pancreatitis (severe upper abdominal pain, nausea, vomiting, unable to tolerate PO intake can require hospital admission)

Contraindications: medullary thyroid cancer (very rare for runs in families), pancreatitis, MEN

Semaglutide (wegovy or ozempic)

Segovy FDA approved for obesity max dose is 2.4mg (mean loss of 15% weight loss in studies), New FDA approval for prevention of cardiovascular events in overweight and obese patients

> Ozempic FDA approved for DM max dose is 2mg

> Weekly injection require a ramp-up



The maintenance dose of Wegovy[®] in adults is either 2.4 mg (recommended) or 1.7 mg once weekly. Consider treatment response and tolerability when selecting the maintenance dose.



Saxenda or Victoza

- > Daily injectable
- Saxenda is FDA approved for weight loss 0.6mg —> 1.2mg —> 1.8mg —> 2.4mg —> 3.0mg
- Victoza is approved for DM2 0.6mg —> 1.2mg >1.8mg
- > 5.9-8% weight loss in studies

Mounjaro/Zepbound

- > GLP plus GIP
- > Mounjaro for DM and Zepbound for obesity
- > Mean weight loss of 20.9% on 15mg dose
- GIP: stimulates insulin release and reduces stomach motility through inhibiting pepsin and gastrin and stimulates satiety in the hypothalamus
- Same side effects as other GLP-1 except it makes OCPs less effective and has black box warning for increased suicide risk



Topamax

- > Unknown mechanism maybe gabanergic
 > Used off label FDA approved for seizures and
 - preventing migraines
- Solution Strain Stra
- Reduces appetite and changes taste makes soda taste flat

Topamax

Side effects: Tiredness, drowsiness, dizziness, loss of coordination, tingling of the hands/feet, loss of appetite, low bicarb through RTA4, kidney stones, less effective hormonal contraception

> CI: kidney stones, glaucoma, pregnancy

Phentermine

> Reduces appetite in hypothalamus

Usually start 15 or 18.75mg and increase to 30 or 37.5 mg after 1 month if BP is good

- FDA approved for weight loss but off label after 12w, no long term harmful effects found
- > Dry mouth, HTN, palpitations, insomnia, tremor, constipation
- CI: CAD arrhythmia, glaucoma, hyperthyroidism, MAOi, pulmonary HTN, substance use
- > Taper to DC

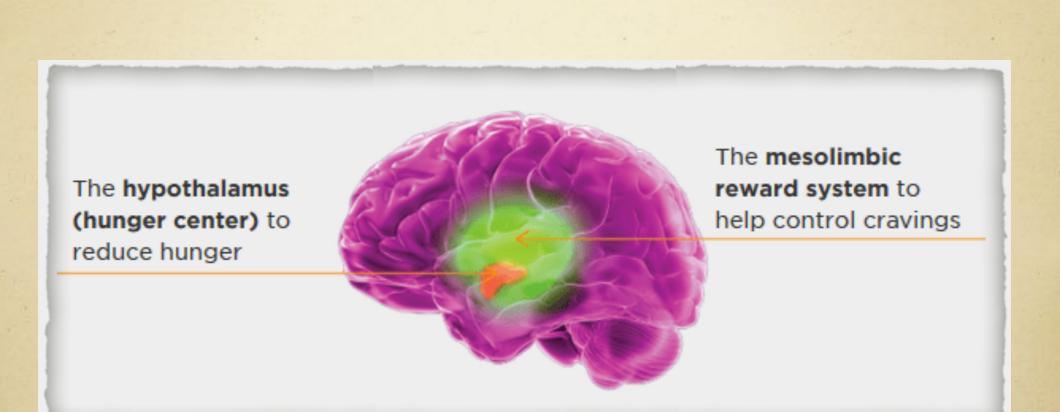


- > Topamax and phentermine combination
- > 10.5% weight loss
- > FDA approved for weight loss
- Ramp up increase dose every 2 weeks
- > Must have >5% weight loss in 12 weeks to continue therapy
- > Must be tapered

12 weeks	28 weeks		56 weeks
	Diet and Exercise Alone	Diet and Exercise with Qsymia 7.5/46 mg [†]	Diet and Exercise with Qsymia 15/92 mg [†]
	(Placebo)	(Recommended dose)	(High dose)
NUMBER OF PATIENTS	N=790	N=338	N=918
WEIGHT LOSS (LBS)	-6	-24	-32
WAIST CIRCUMFERENCE REDUCTION (INCHES)	-2	-4	-5

Contrave

- FDA approved weight loss combination of Wellbutrin SR and naltrexone
- > Mean weight loss is 6.1%
- > Most common side effect is nausea others: Headache, constipation, dizziness, vomiting, and dry mouth



Wellbutrin

- > Mixed effect used alone in studies
- > FDA approved depression, and smoking cessation
- > Used off label for weight management
- Side effects: HTN, anxiety
- > CI: glaucoma, seizures, anorexia, bulimia
- Black box warning of increased suicidality

Naltrexone

- > Not effective alone
- > FDA approved alcoholism
- Side effects: nausea, dizziness, anxiety, tiredness, trouble sleeping
- > CI: cirrhosis, opiod medication

Plenity

Considered a medical device

> Approved fro BMI 25-40

- Take 3 pills 20min before meals with water and it expands and reduces food intake
- Side effects: diarrhea, distended abdomen, infrequent bowel movements, and flatulence.

CI: pregnancy



Party is determined as replace prior to a treat



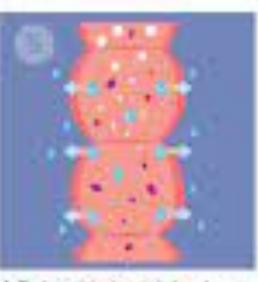
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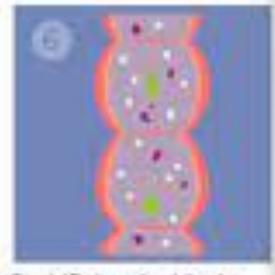
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Metformin

Seffective for PCOS, antipsychotic induced weight gain

CI: kidney dysfunction GFR<30</p>

Side effects: diarrhea, B12 deficiency

Future Medications

Retatrutide: GLP-1, GIP, glucagon agonist 24% weight loss at 48 weeks at studies currently in phase 2 trial

Survodutide: GLP/GIP phase 2 trials