

What's new in obesity medications, devices, and procedures

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DISCLOSURES

Eli Lilly, Novo Nordisk, Madrigal, Corcept

- **speakers bureau**

Boehringer Ingelheim

- **consultant**



OBJECTIVES



Describe current new and emerging obesity pharmacologic therapies and navigating clinical scenarios



Discuss new device-based and procedural obesity therapy options



Review a practical, stepwise approach to escalating obesity treatment in the primary care setting

CASE

Pt is a 45 y/o M with a PMH of living with HTN, HLD, T2DM presenting for weight management

- **BMI:** 34 kg/m²
- **Medications:** Metformin, atorvastatin, lisinopril
- **hbA1c:** 7.8%
- **Lifestyle:** intermittent attempts at diet/exercise with limited success

He expresses strong motivation to lose weight, particularly to improve his diabetes and reduce medication burden. However, he states *“I’ve heard about these weight loss shots, but I’m really afraid of needles. Are there any effective pills instead?”*



GLP1s provided a needed treatment option

Role of obesity pharmacotherapy

- Obesity is a chronic disease
- Diet and exercise are not always sufficient alone to treat obesity, pharmacotherapy is an important tool
- Now treating weight first rather than last
- Weight is difficult to maintain in the long term



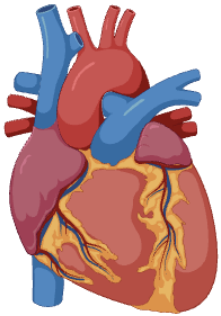
Game changer for obesity medicine

GLP-1 Receptor Agonists (GLP1-RAs)

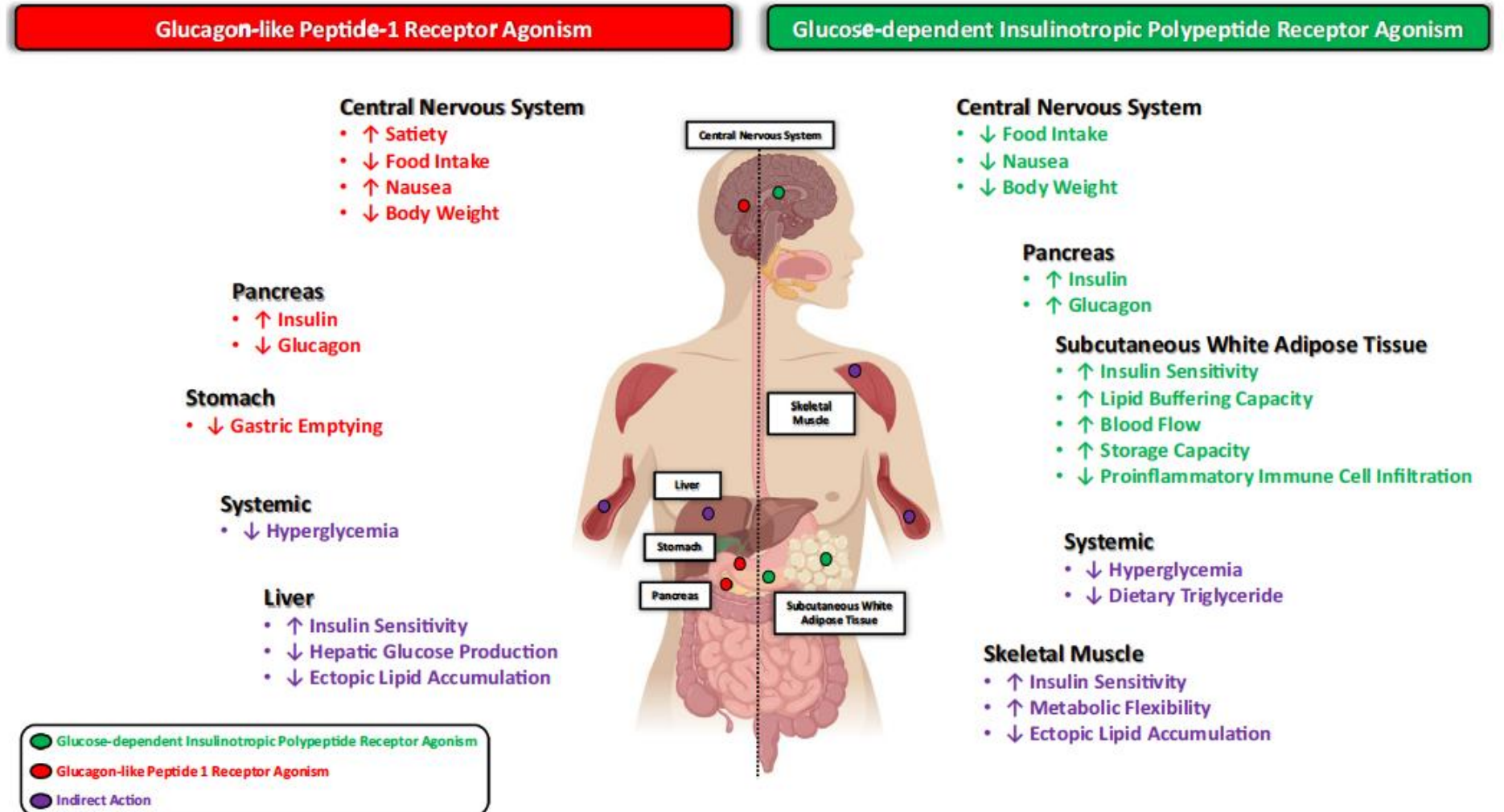
- FDA first approved for obesity treatment in 2021
- Clinical trials found patients can lose 15%-20% of their body weight
- Reduce risk of heart disease, diabetes and other related conditions



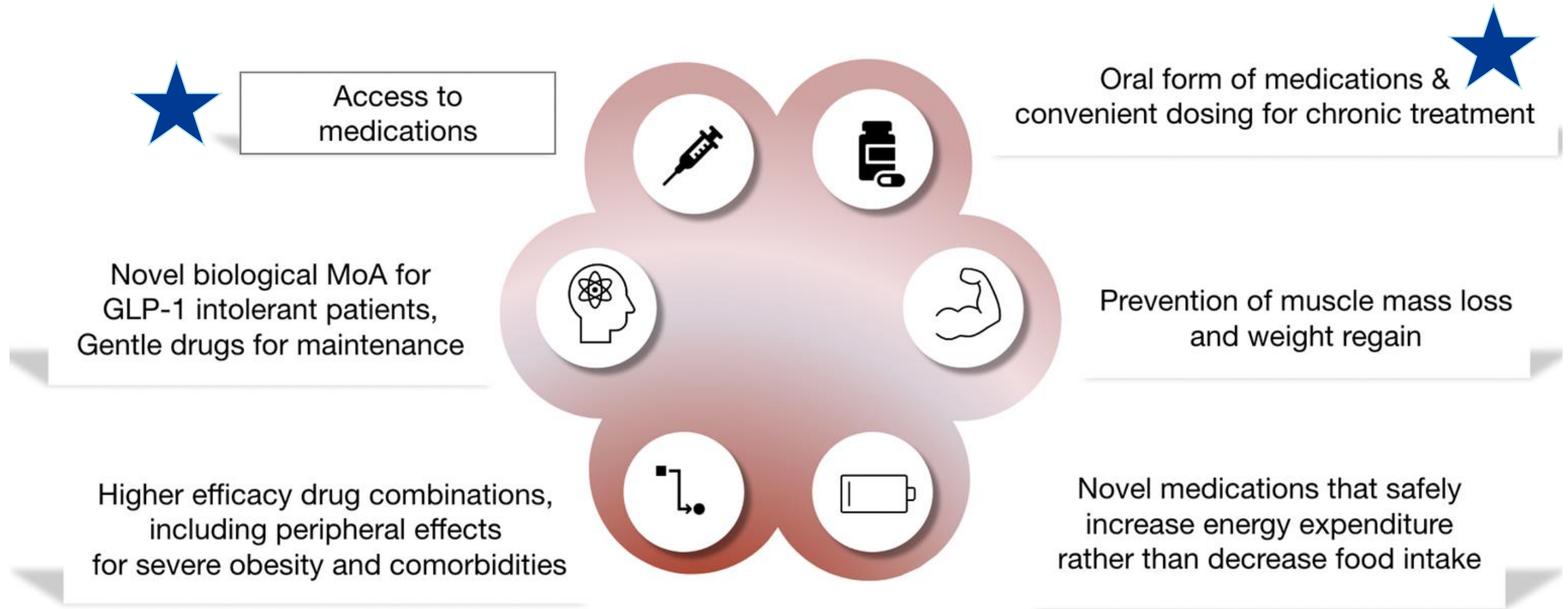
GLP1, GIP: Roles in Metabolic Regulation



Cardiovascular System
 ↓ Vascular Inflammation



Unmet needs of current incretin therapies



MoA: mechanism of action



Pens vs pills

Pros and cons

- Convenient for patients
- Weight/bias and stigma
- Could improve adherence
- People taking oral formulations lost less weight in clinical trials

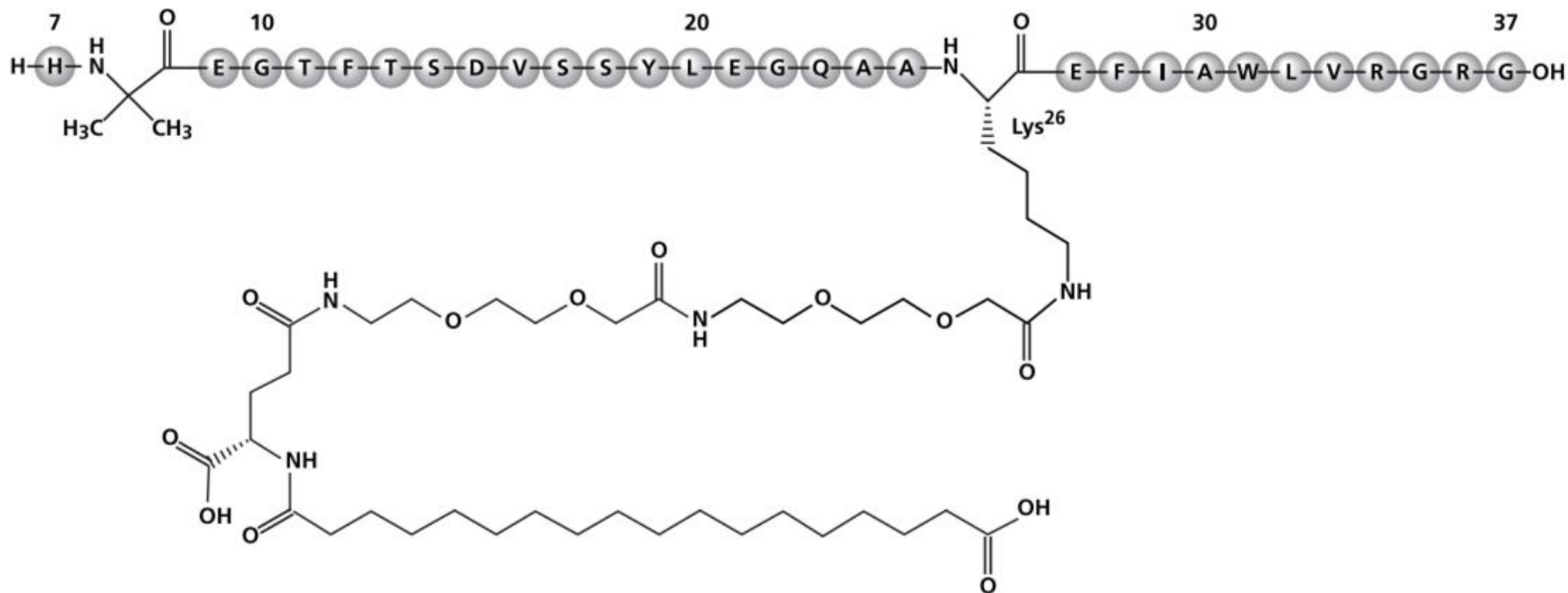


Pill formulations of GLP1s

- Rybelsus
- Oral semglutide (Ozempic)
- Oral semaglutide (Wegovy)★
- Orforglipron★



Oral semaglutide (wegovy)



Oral semaglutide (wegovy)

Doses:

1.5 mg qdaily

4 mg qdaily

9 mg qdaily

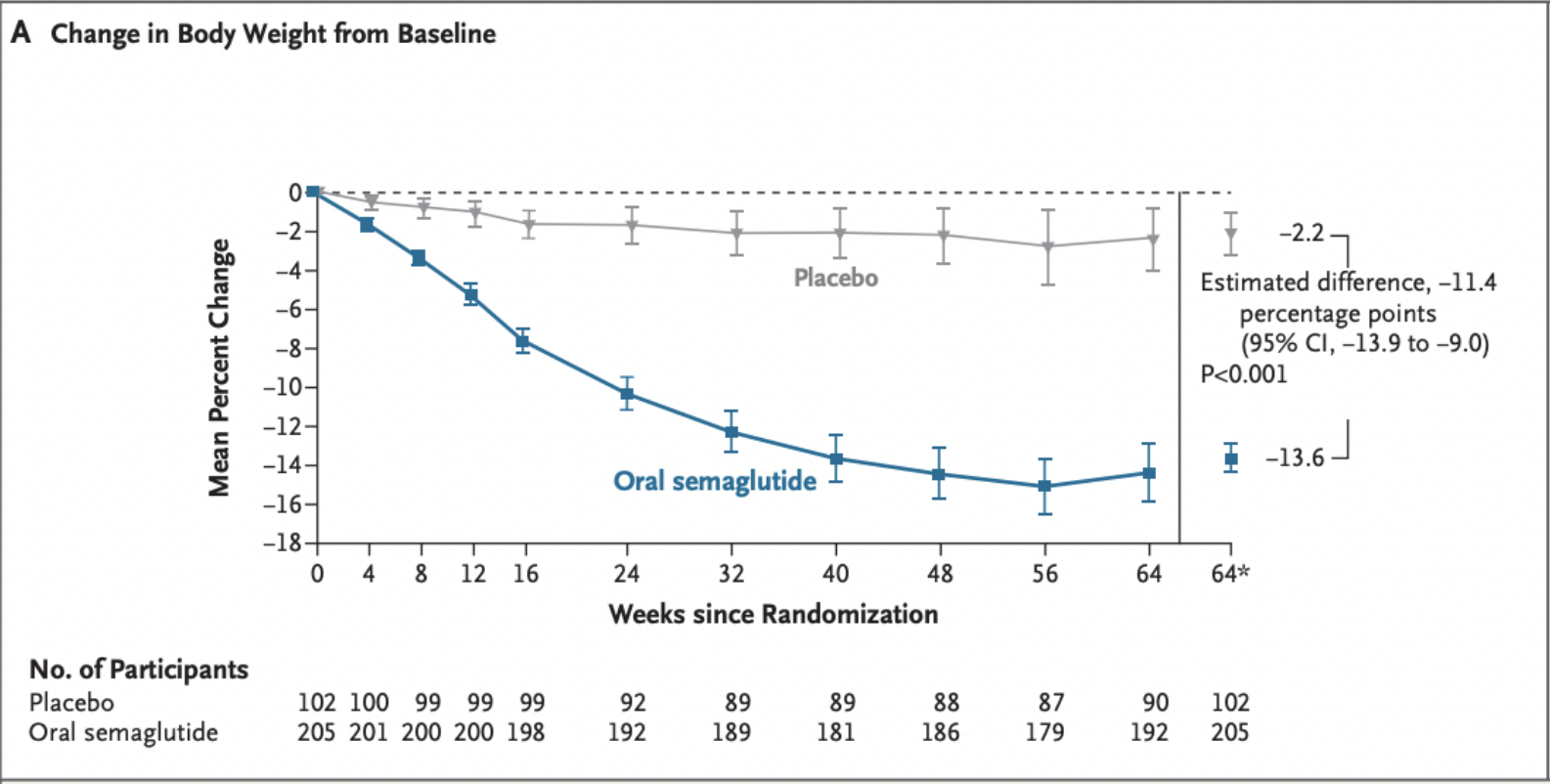
25 mg qdaily

Indications: In combination with a reduced calorie diet and increased physical activity:

- To reduce the risk of major adverse CV events (CV death, non-fatal myocardial infarction, or non-fatal stroke) in adults with established CV disease and either obesity or overweight.
- To reduce excess body weight and maintain weight reduction long term in adults with obesity, or in adults with overweight in the presence of at least one weight-related comorbid condition.



Oral semaglutide (wegovy) OASIS 4



Wharton, Sean, et al. "Oral Semaglutide at a Dose of 25 Mg in Adults with Overweight or Obesity." *The New England Journal of Medicine.*, vol. 393, no. 11, 2025, pp. 1077–87, <https://doi.org/10.1056/NEJMoa2500969>.



Starting, escalation, maintenance

| | Days | Once Daily Tablet Dosage |
|--------------------|---------------|---------------------------------|
| Starting Dosage | 1 through 30 | 1.5 mg |
| Dosage Escalation | 31 through 60 | 4 mg |
| | 61 through 90 | 9 mg |
| Maintenance Dosage | 91 and onward | 25 mg |

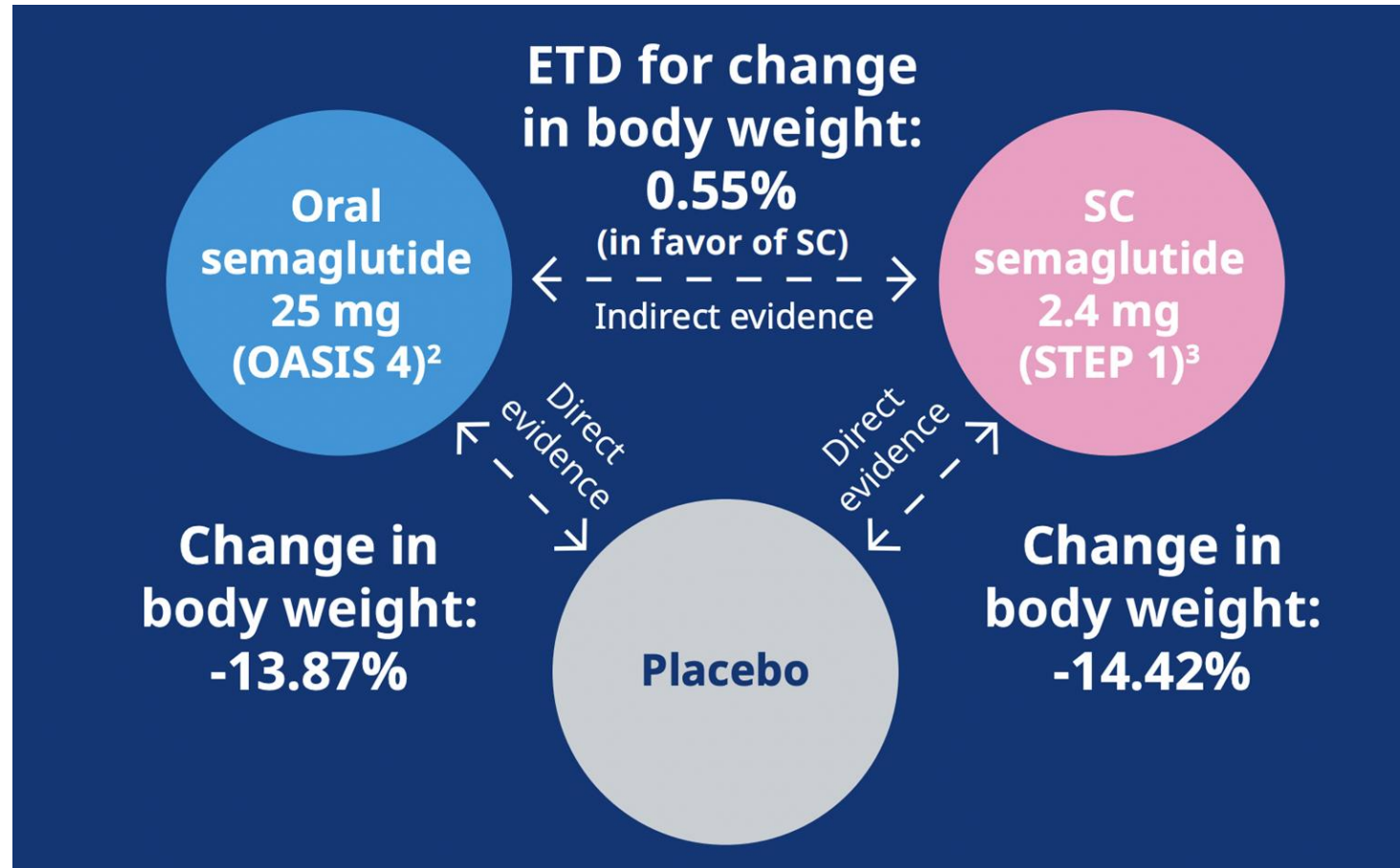


Clinical question:

Patient asks you “are oral semaglutide and the injectable semaglutide are comparable?”



GLP1s provided a needed treatment option



Oral vs Injectable Semaglutide: An Indirect Treatment Comparison of Weight Loss Molly Plotkin, MSc1 ; Milana Ivkovic, MSc2 ; Inger Smith, MSc3 ; Naveen Rathor MD2 ; Rohan Chowdhury, PhD4 ; Alexander Hodgkinson, PhD4. (n.d.).

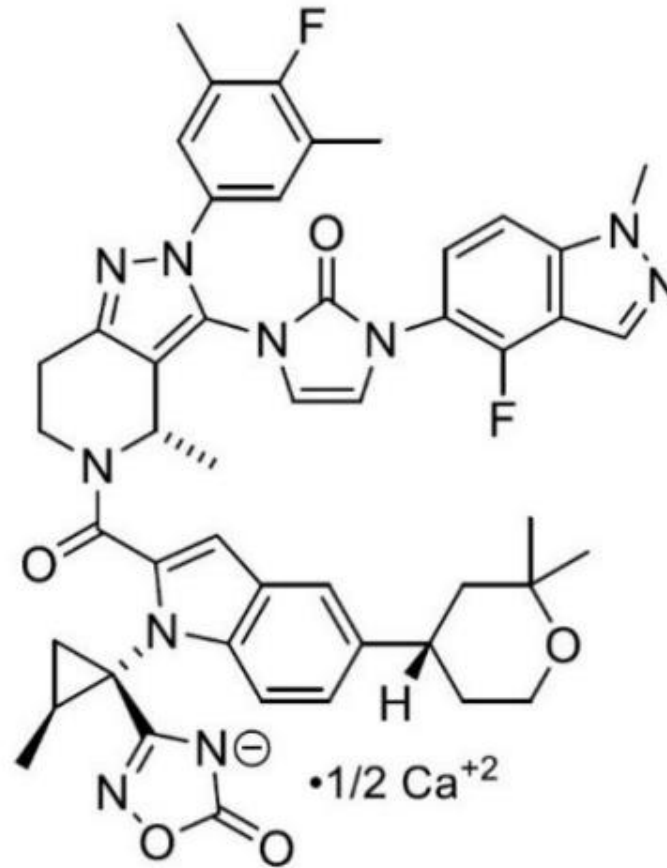


Clinical question:

Patient asks you “I heard there is tirzepatide in a pill which just came out. Can you tell me about that?”



Orforglipron (Foundayo): oral GLP1 receptor agonist



Orforglipron

Doses:

0.8 mg qdaily

2.5 mg qdaily

5.5 mg qdaily

9 mg qdaily

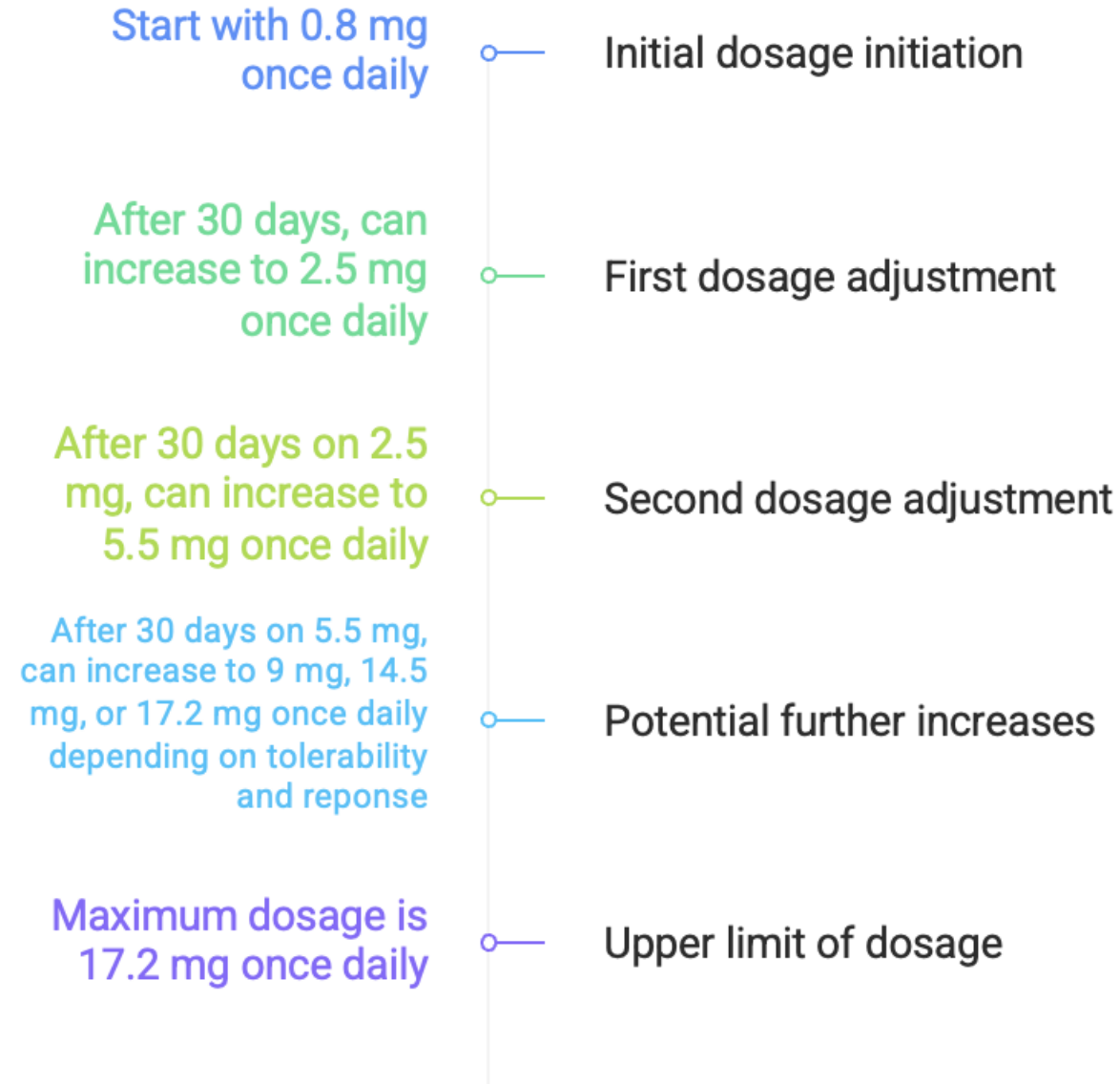
14.5 mg qdaily

17.2 mg qdaily

Indication: GLP-1 receptor agonist indicated in combination with a reduced-calorie diet and increased physical activity to reduce excess body weight and maintain weight reduction long term in adults with obesity or adults with overweight in the presence of at least one weight-related comorbid condition



Starting, escalation, maintenance



Orforglipron drug interactions

| Strong CYP3A4 Inhibitors | |
|---------------------------------|--|
| <i>Intervention</i> | The maximum dosage of FOUNDAYO is 9 mg once daily when used concomitantly with a strong CYP3A4 inhibitor. Avoid concomitant use of FOUNDAYO with strong CYP3A4 inhibitors that also inhibit OATP1B (e.g., ritonavir) [see <i>Dosage and Administration</i> (2.2)]. |
| <i>Clinical Impact</i> | CYP3A4 inhibitors increase FOUNDAYO exposure [see <i>Clinical Pharmacology</i> (12.3)], which may increase the risk of FOUNDAYO-associated adverse reactions. Strong CYP3A4 inhibitors that also clinically inhibit OATP1B are expected to significantly increase plasma concentrations of FOUNDAYO, which may increase the risk of FOUNDAYO-associated adverse reactions [see <i>Warnings and Precautions</i> (5.3), <i>Adverse Reactions</i> (6.1)]. |
| Strong CYP3A4 Inducers | |
| <i>Intervention</i> | Avoid concomitant use of FOUNDAYO with strong CYP3A4 inducers. |
| <i>Clinical Impact</i> | Induction of CYP3A4 decreases FOUNDAYO exposure [see <i>Clinical Pharmacology</i> (12.3)], which may reduce the effectiveness of FOUNDAYO. |
| Moderate CYP3A4 Inducers | |
| <i>Intervention</i> | Monitor FOUNDAYO effectiveness and escalate dosage as needed when used concomitantly with moderate CYP3A4 inducers [see <i>Dosage and Administration</i> (2.1)]. |
| <i>Clinical Impact</i> | Induction of CYP3A4 decreases FOUNDAYO exposure [see <i>Clinical Pharmacology</i> (12.3)], which may reduce the effectiveness of FOUNDAYO. |



Orforglipron (Foundayo)

ATTAIN clinical trial program

HTN in people living with overweight or obesity

OSA in people living with overweight or obesity

OA in in people living with overweight or obesity

Stress Urinary Incontinence in females living with obesity or overweight

PAD

ASCVD and/or CKD

ATTAIN MAINTAIN



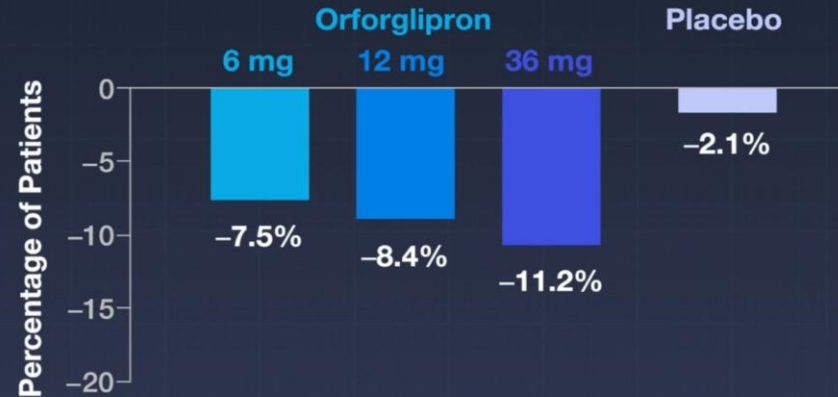


PRIMARY END POINT

Mean Percent Change in Body Weight

From Baseline to Week 72

P<0.001 for difference between each dose group vs. placebo

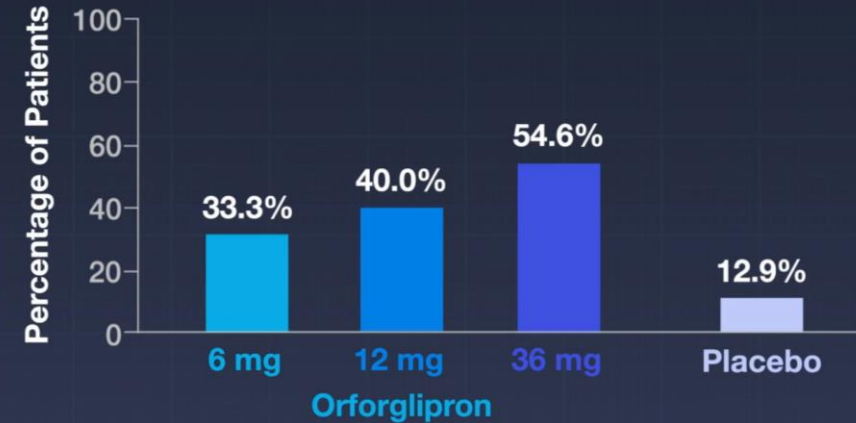


SECONDARY OUTCOMES

Weight Reduction of $\geq 10\%$

From Baseline to Week 72

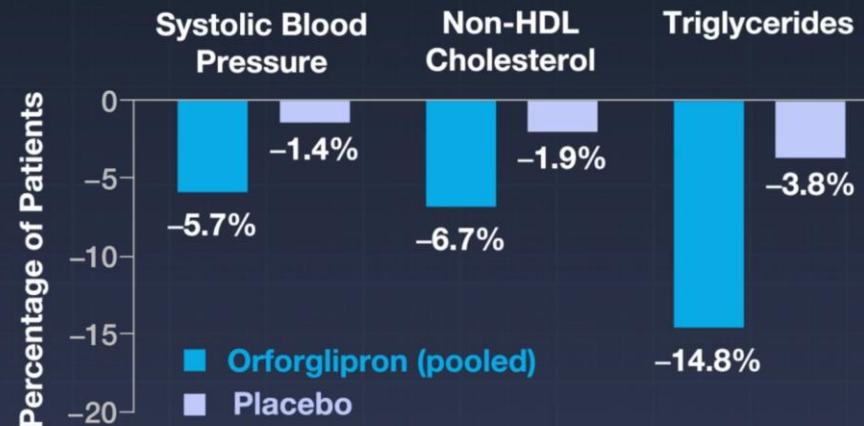
P<0.001 for difference between each dose group vs. placebo



SECONDARY OUTCOMES

Change in Cardiometabolic Risk Factors

From Baseline to Week 72

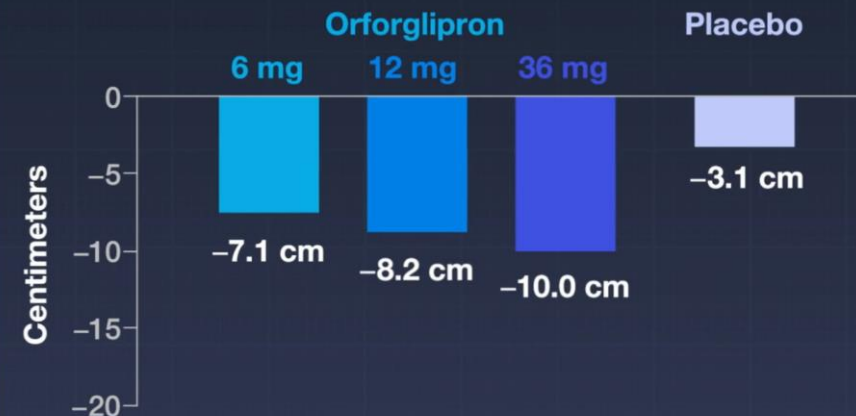


SECONDARY OUTCOMES

Reduction in Waist Circumference

From Baseline to Week 72

P<0.001 for difference between each dose group vs. placebo



Wharton S. Orforglipron, an oral small-molecule GLP-1 receptor agonist for obesity treatment | New England Journal of Medicine. Orforglipron, an Oral Small-Molecule GLP-1 Receptor Agonist for Obesity Treatment. 2025. Accessed May 3, 2026. <https://www.nejm.org/doi/full/10.1056/NEJMoa2511774>.

NEWS

Press release

8:00 AM April 2 2026

[↓ Announcement.pdf](#)

Wegovy® pill demonstrated greater weight loss than orforglipron and lower odds of stopping medication due to side effects in a new indirect comparison to be presented at Obesity Medicine Association 2026



Oral Peptide vs Small Molecule GLP-1 RAs

| Category | Oral Peptide GLP1-RA (Semaglutide) | Oral Non-peptide, small molecule (Orforglipron) |
|----------------|------------------------------------|---|
| Half life | 7 days | ~48 hours |
| Storage | stable at room temperature | stable at room temperature |
| Dosing | Daily | Daily |
| Administration | Food and water restrictions | No food or water restrictions |

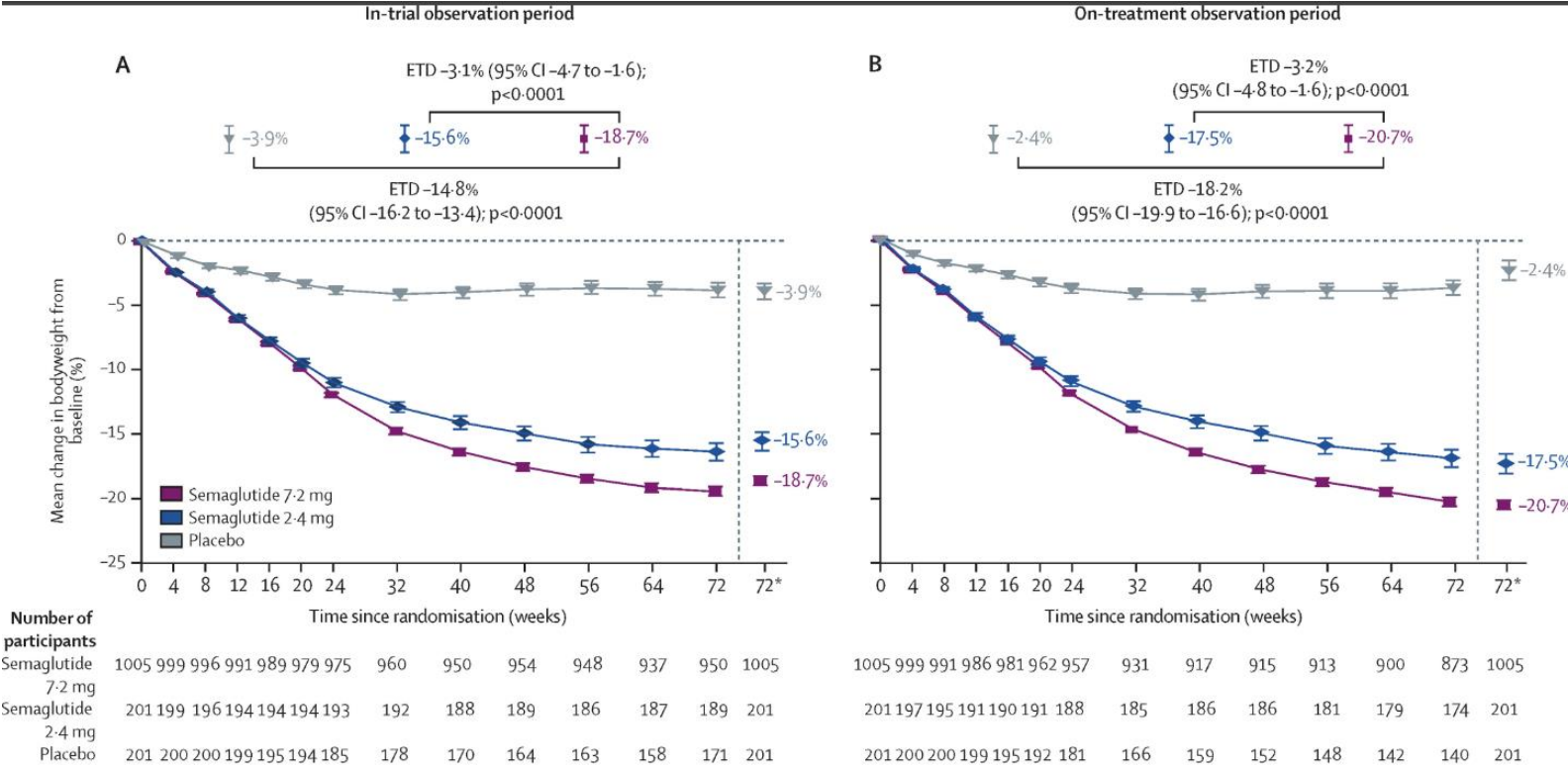


Clinical question:

Patient asks you “which oral GLP1 shows greater weight loss?”



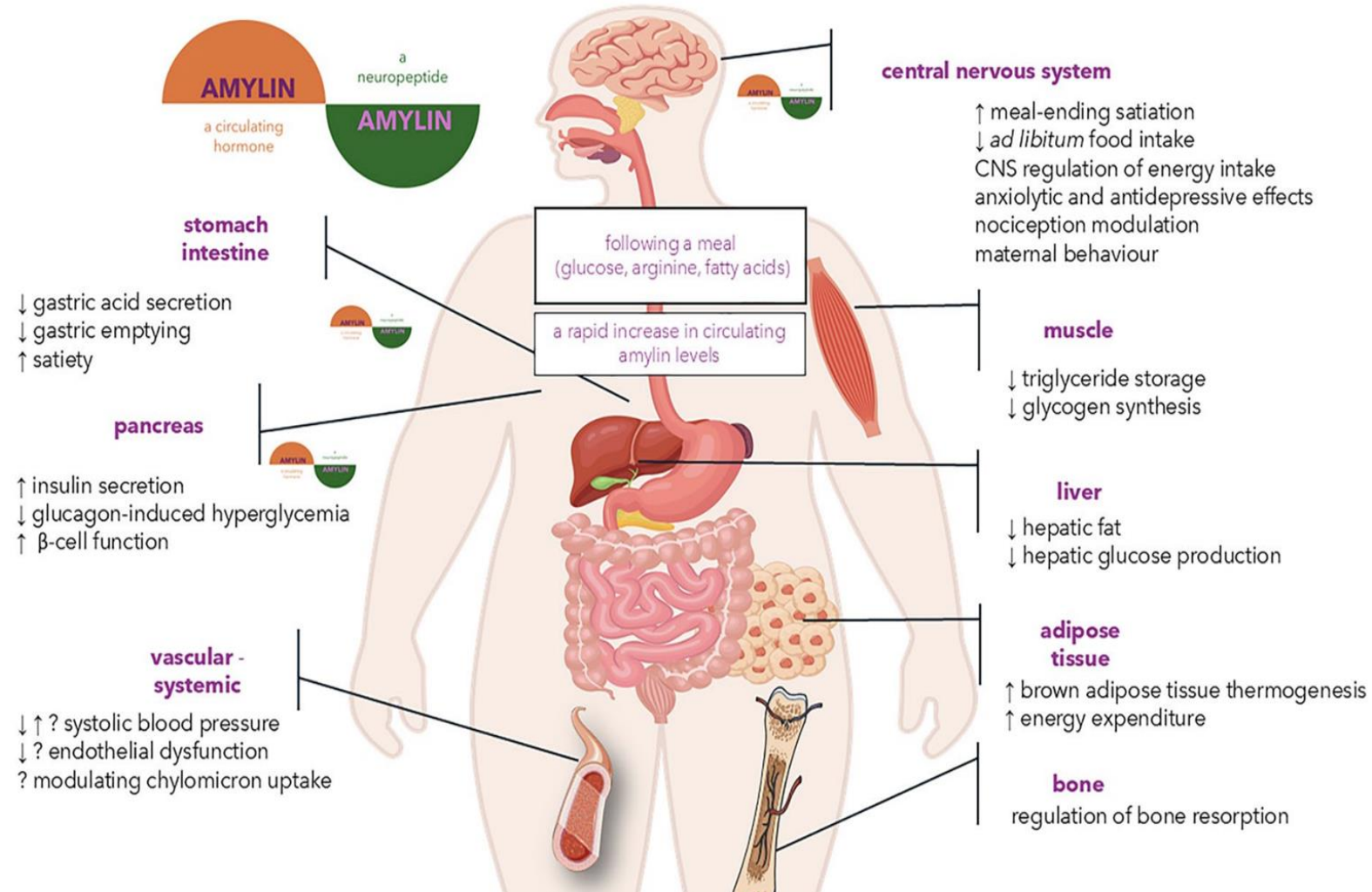
Semaglutide 7.2 mg qweekly STEP UP

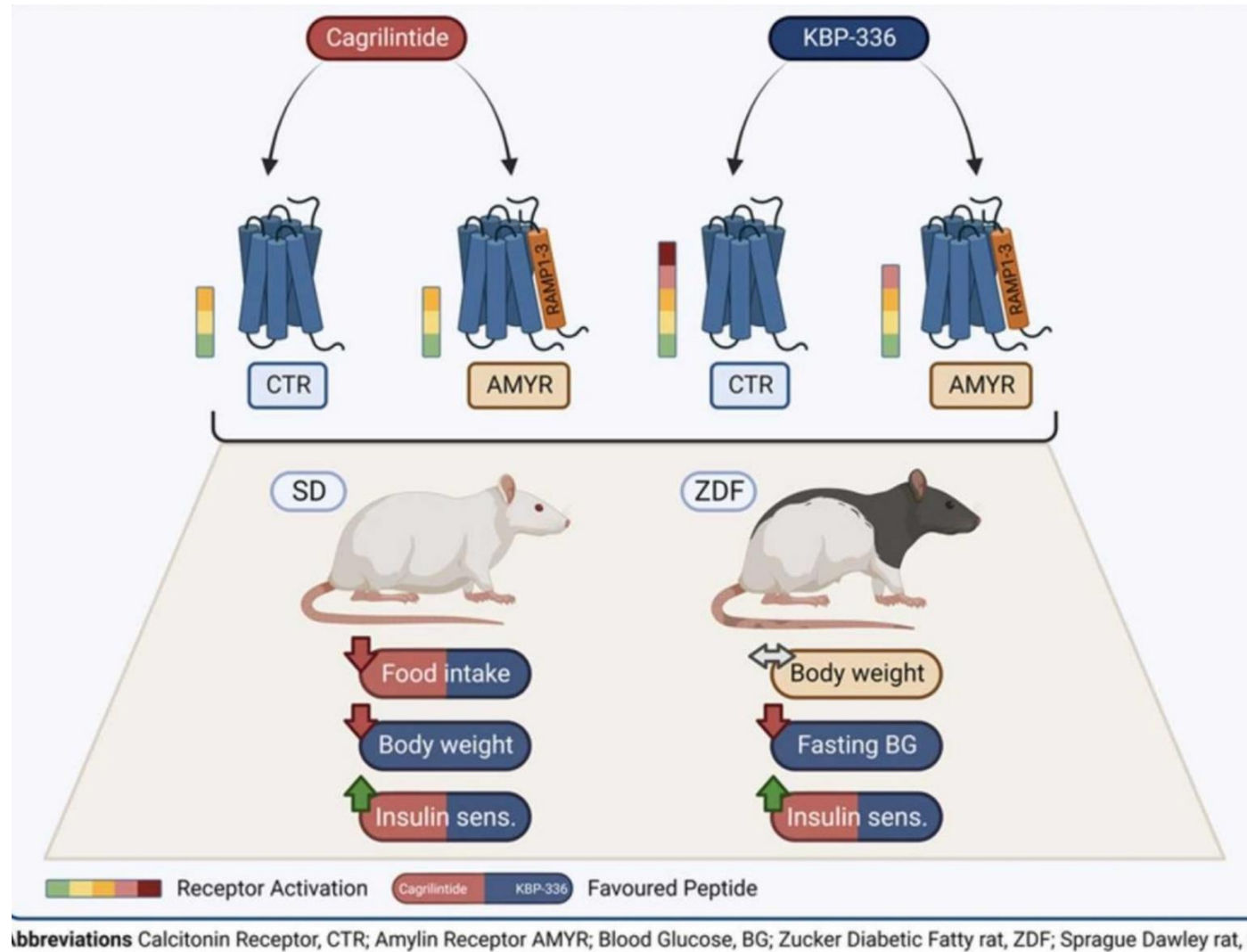


Wharton Once-weekly semaglutide 7.2 mg in adults with obesity (STEP UP): a randomised, controlled, phase 3b trial, The Lancet Diabetes & Endocrinology, Volume 13, Issue 11, 2025, Pages 949-963, ISSN 2213-8587, [https://doi.org/10.1016/S2213-8587\(25\)00226-8](https://doi.org/10.1016/S2213-8587(25)00226-8).



Amylin

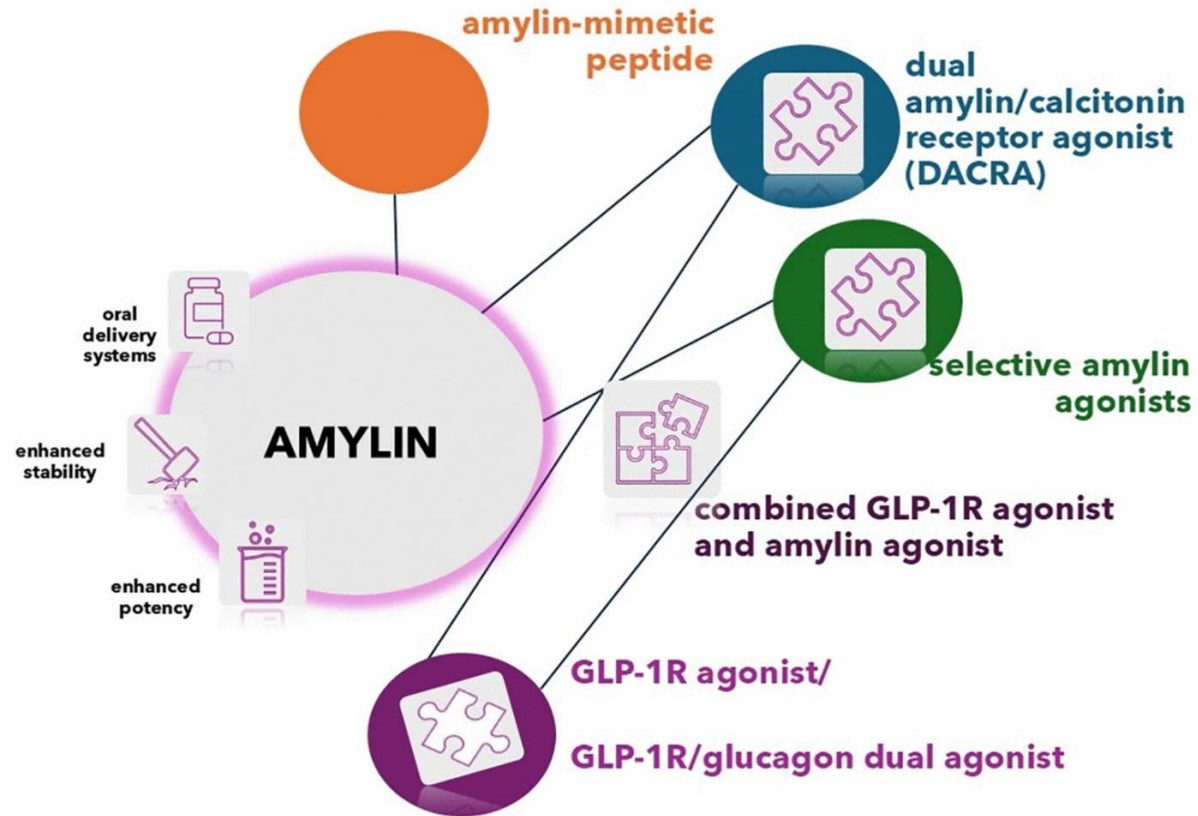




A.T. Larsen Does receptor balance matter? – Comparing the efficacies of the dual amylin and calcitonin receptor agonists cagrilintide and KBP-336 on metabolic parameters in preclinical models, Biomedicine & Pharmacotherapy, Volume 156, 2022, 113842, ISSN 0753-3322



Amylin agonists

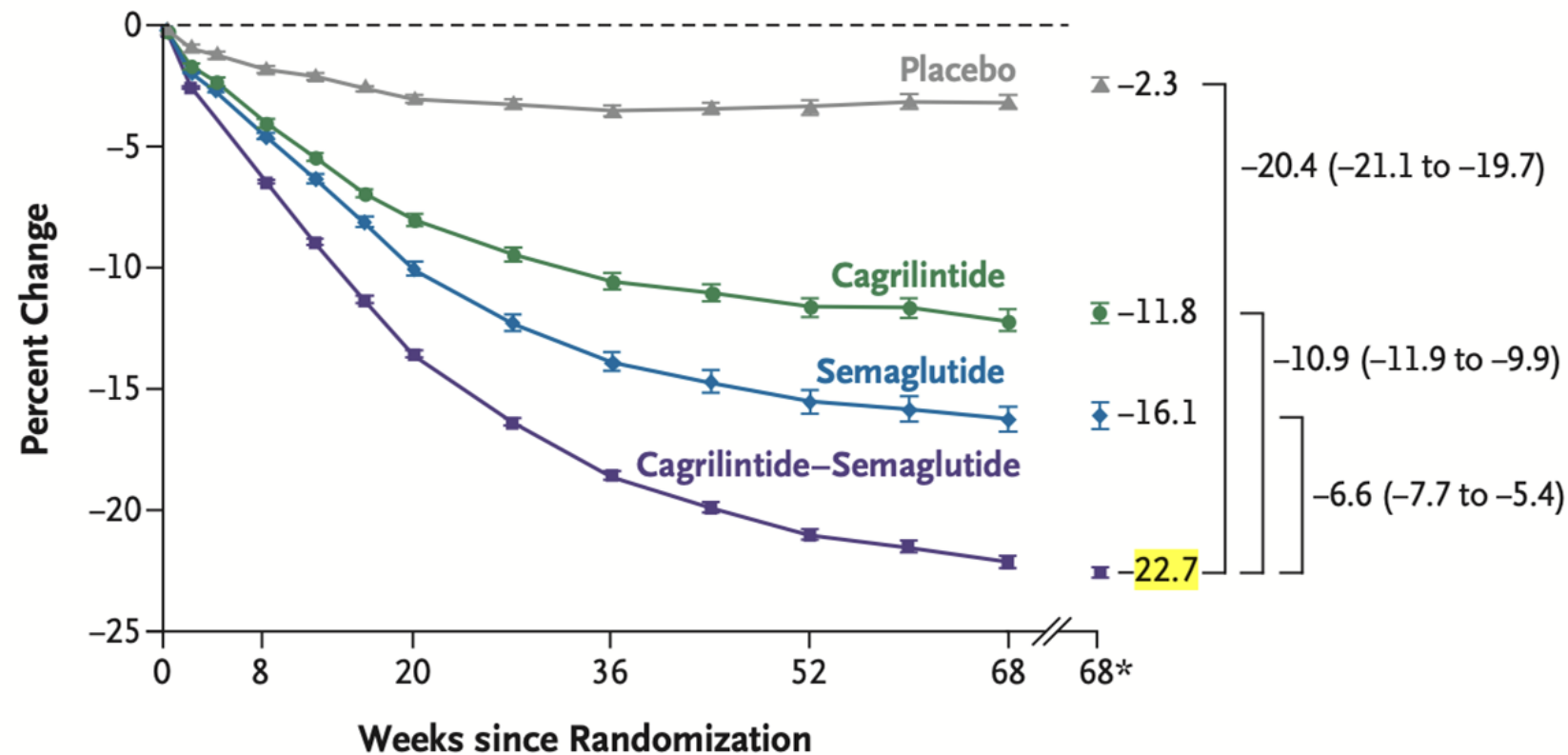


Volčanšek, Š., Kocova, A., Jensterle, M. *et al.* Amylin: From Mode of Action to Future Clinical Potential in Diabetes and Obesity. *Diabetes Ther* **16**, 1207–1227 (2025). <https://doi.org/10.1007/s13300-025-01733-8>



Cagrilintide

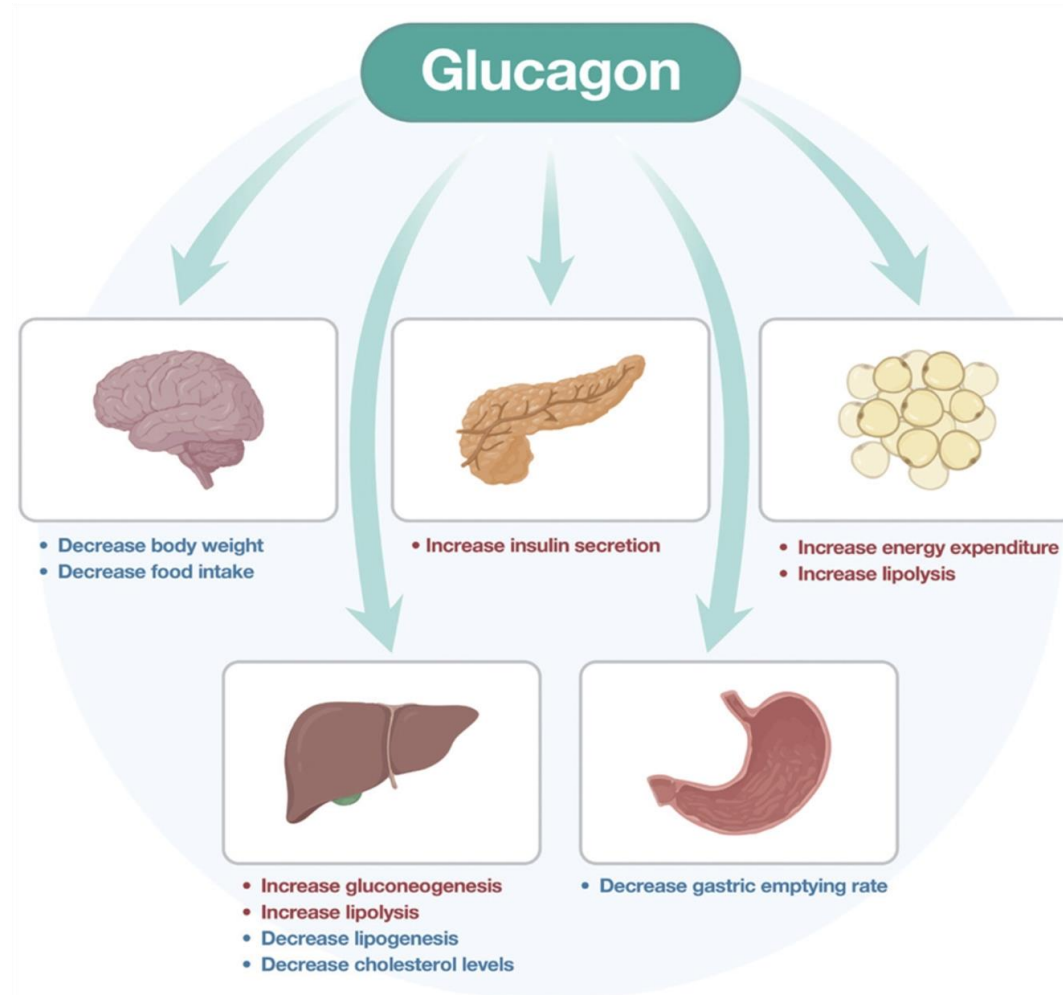
Change in Body Weight from Baseline to Week 68 (trial-product estimand)



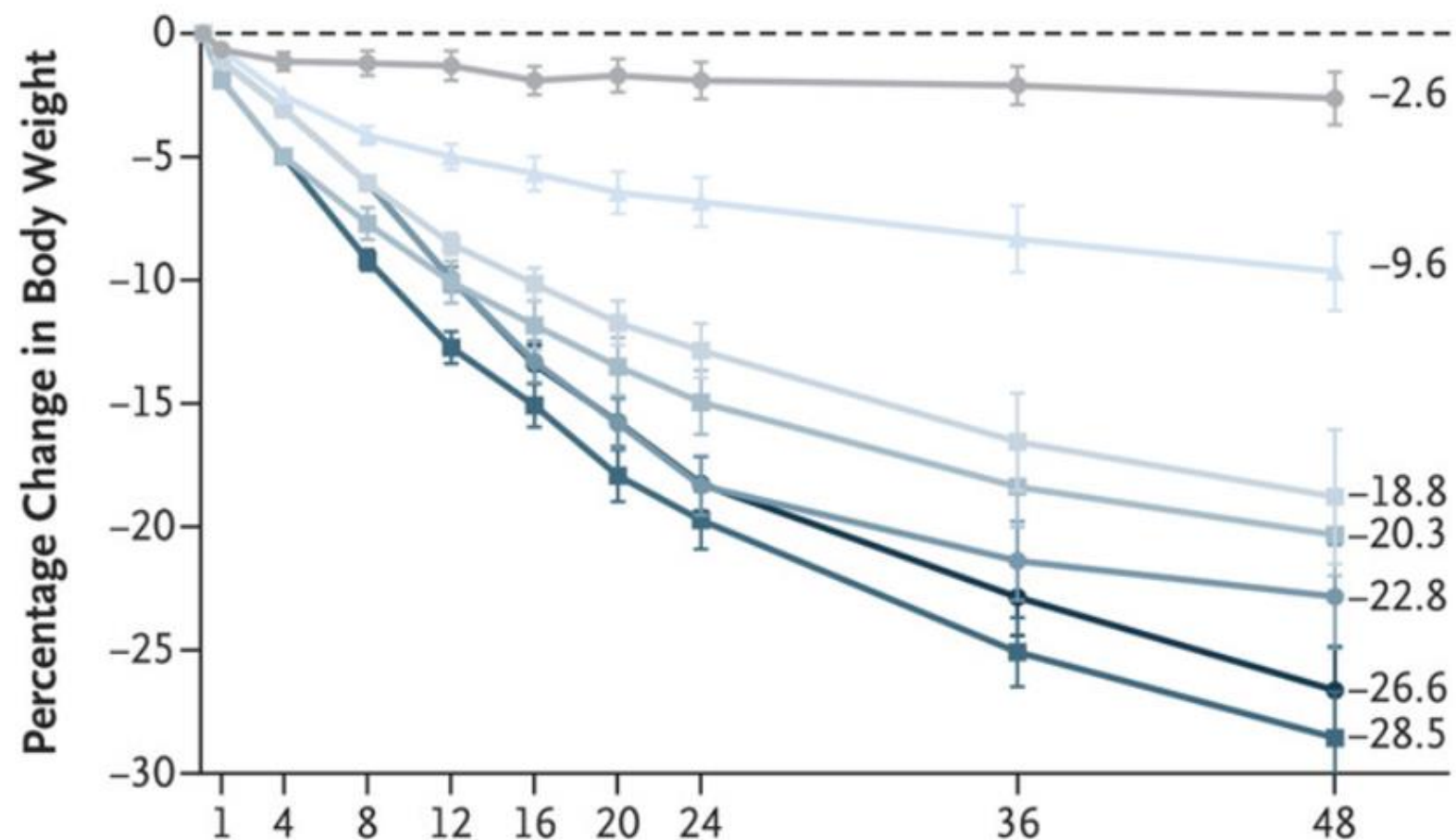
Garvey et al., NEJM, 2025



Glucagon



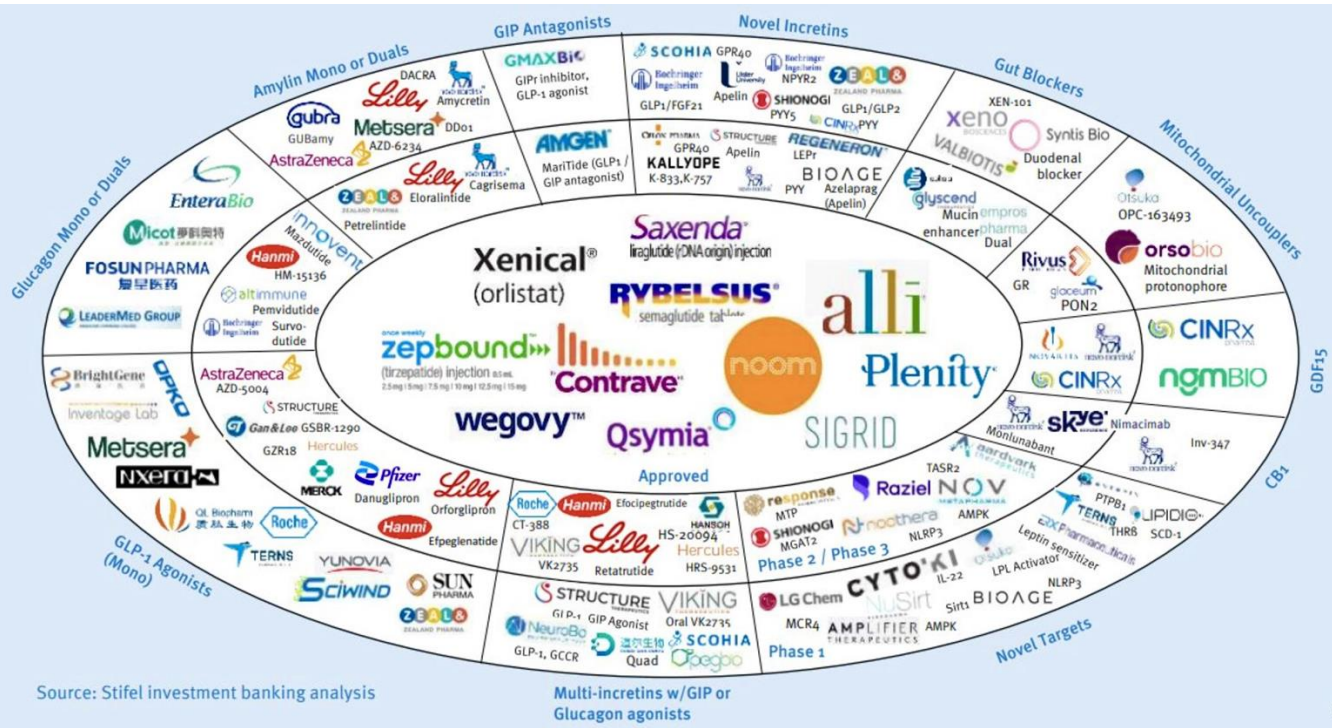
Retatrutide



Jastreboff et al., NEJM., 2023



Future Pipeline



| | | |
|------------------------|------------------------------|---|
| Phase 3 Clinical Trial | Retatrutide (LY3437943) | GIP/GLP-1/Glucagon Agonist |
| Phase 3 Clinical Trial | Survodutide (BI 456906) | GLP-1/Glucagon Agonist |
| Phase 3 Clinical Trial | Mazdutide | GLP-1/Glucagon Agonist |
| Phase 3 Clinical Trial | Cagrilintide | Long-acting Amylin Analog |
| Phase 3 Clinical Trial | Orforglipron | GLP-1 Agonist |
| Phase 3 Clinical Trial | Taldefgrobep alfa (BHV-2000) | Myostatin Inhibitor |
| Phase 2 Clinical Trial | Bimagrumab | ActRII Inhibitor |
| Phase 2 Clinical Trial | Trevogrumab (REGN 1033) | Selective Myostatin Inhibitor |
| Phase 2 Clinical Trial | Garetosmab | Activin A Inhibitor |
| Phase 2 Clinical Trial | Pemvidutide | GLP-1/Glucagon Agonist |
| Phase 2 Clinical Trial | Petrelintide | Long-acting Amylin Analog |
| Phase 2 Clinical Trial | Dapiglutide | GLP-1/GLP-2 Agonist |
| Phase 2 Clinical Trial | MariTide | GLP-1 Agonist/GIP Antagonist |
| Phase 2 Clinical Trial | HU6 | Controlled Metabolic Accelerator |
| Phase 2 Clinical Trial | NT-0796 | NLRP3 Inhibitor |
| Phase 2 Clinical Trial | S-309309 | MGAT2 Inhibitor |
| Phase 2 Clinical Trial | GSBR-1290 | GLP-1 Agonist |
| Phase 2 Clinical Trial | VK2735 | GLP-1/GIP Agonist |
| Phase 1 Clinical Trial | Amycretin (NNC0487-0111) | GLP-1/Amylin Agonist |
| Phase 1 Clinical Trial | TLC-6740 | Liver-targeted Mitochondrial Protonophore |
| Phase 1 Clinical Trial | KER-065 | Selective ActRII Ligand Trap |
| Phase 1 Clinical Trial | CT-996 | GLP-1 Agonist |
| Phase 1 Clinical Trial | NT-0249 | NLRP3 Inhibitor |
| Preclinical Study | RKER-034 | ActRII Ligand Trap |
| Preclinical Study | SRK-439 | Selective Myostatin Inhibitor |
| Preclinical Study | Anti-GPR75 | Gene Silencing |
| Preclinical Study | WVE-007 | Gene Silencing |
| Preclinical Study | ARO-INHBE | Gene Silencing |
| Preclinical Study | ARO-ALK7 | Gene Silencing |



Combinations

Metabolic surgery

TREATMENT GAP

**Anti obesity pharmacotherapy
2nd generation, 3rd generation**

**Lifestyle
(professionally directed)**

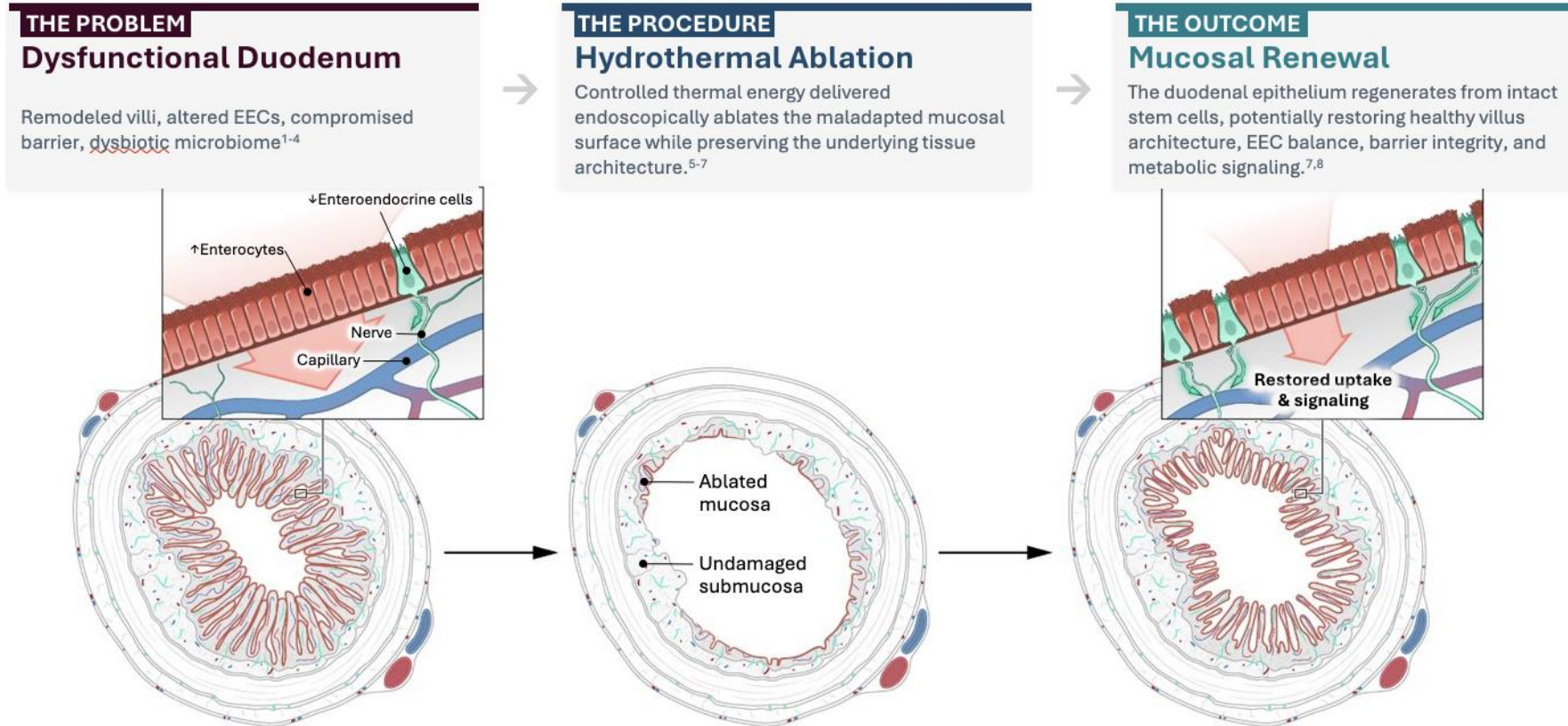
Lifestyle (self directed)

Endoscopic Bariatric Therapies

- Intragastic balloons
- Endoscopic sleeve gastropasty



Emerging/Novel Devices

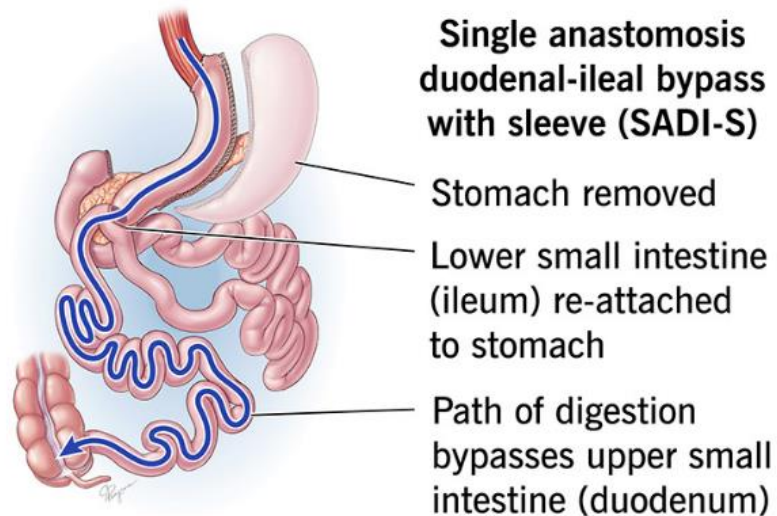
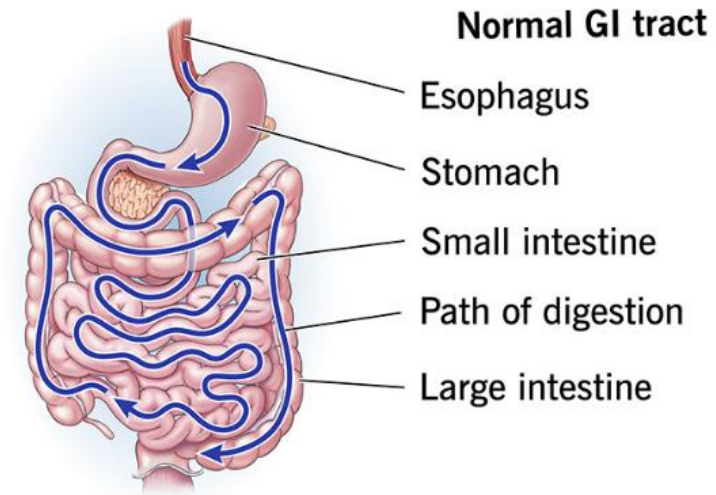


Metabolic surgery

Sleeve gastrectomy

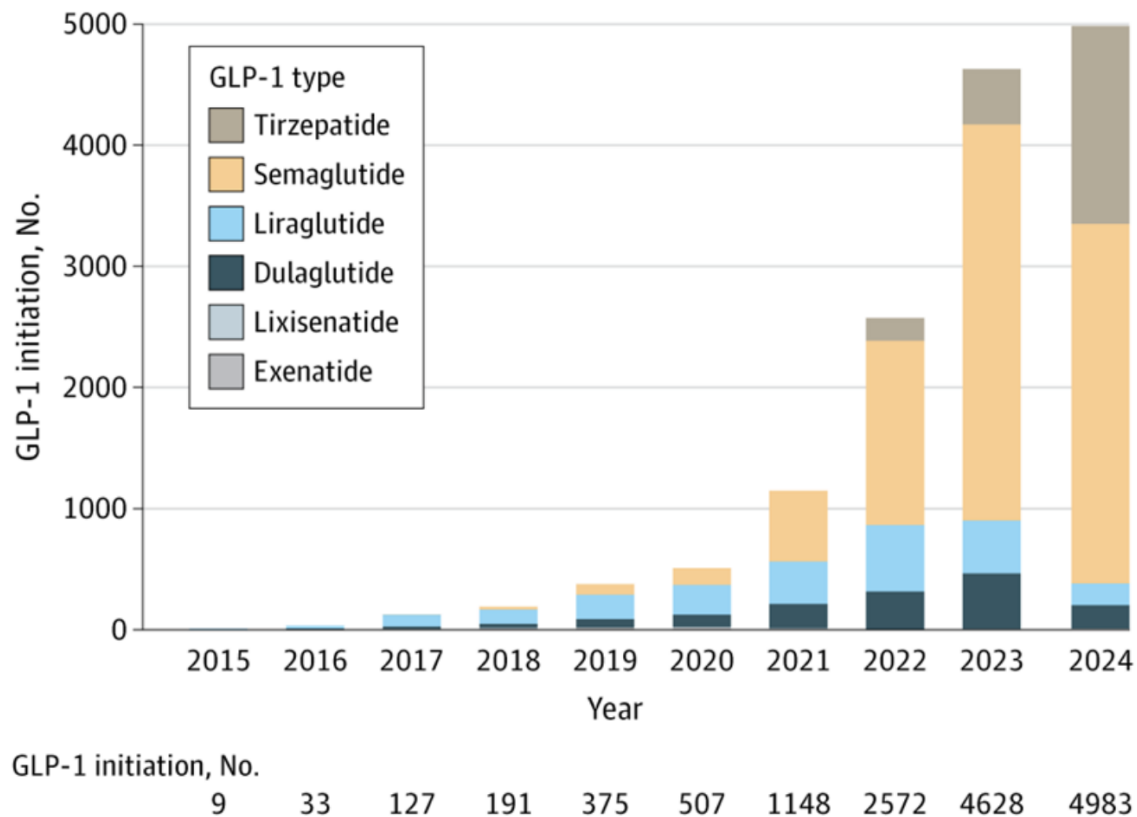
Rou-en-Y gastric bypass

SADI surgery



Combination therapies

Figure 3. Trends in Glucagon-Like Peptide-1 Receptor Agonist (GLP-1) Initiation Post-Bariatric Surgery, Stratified by Types of GLP-1s



The number of GLP-1 initiations in 2025 is not presented because data are only available for 5 months.
From January to May 2025, a total of 1176 initiations were observed.



Conclusions

- Advancements in incretin therapies are bridging the gap between medication and surgical therapies
- With increasing efficacy and hormonal targets, the key will be the right therapy for the right patient
- Obesity care has shifted to a multimodal strategy where medications, devices and procedures can and are complementary



THANK YOU

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Instagram: @doctorjny



References

- Wharton S. Orforglipron, an oral small-molecule GLP-1 receptor agonist for obesity treatment | New England Journal of Medicine. Orforglipron, an Oral Small-Molecule GLP-1 Receptor Agonist for Obesity Treatment. 2025. Accessed May 3, 2026. <https://www.nejm.org/doi/full/10.1056/NEJMoa2511774>
- Samms et al., Trends Endocrinol Metab., 2020
- Muller et al., Mol Metab, 2025
- Oral vs Injectable Semaglutide: An Indirect Treatment Comparison of Weight Loss Molly Plotkin, MSc1 ; Milana Ivkovic, MSc2 ; Inger Smith, MSc3 ; Naveen Rathor MD2 ; Rohan Chowdhury, PhD4 ; Alexander Hodgkinson, PhD4. (n.d.).
- Volčanšek, Š., Koceva, A., Jensterle, M. *et al.* Amylin: From Mode of Action to Future Clinical Potential in Diabetes and Obesity. *Diabetes Ther* **16**, 1207–1227 (2025). <https://doi.org/10.1007/s13300-025-01733-8>
- Jakubowska et al., Endocrinol Metab., 2024
- Garvey et al., NEJM, 2025
- Jastreboff et al., NEJM., 2023
- ÇETİN, ECESU; PEDERSEN, BRIAN; and BURAK, MEHMET FURKAN (2025) "Paradigm shift in obesity treatment: an extensive review of current pipeline agents," Turkish Journal of Medical Sciences: Vol. 55: No. 1, Article 2. <https://doi.org/10.55730/1300-0144.5938>
- *OBESITY IS a DISEASE*. Accessed April 6, 2024. <https://medical.lilly.com/us/diseases/assets/vaultpdf/en/8a320555ce59e2bbb378ed2e79cfb078ba89a7c0202a543e6f8888c1b144f76e/obesity-is-a-disease-infographic>
- Kim M, Schweitzer MA, Kim JS, Alexander GC, Mehta HB. Use of Glucagon-Like Peptide-1 Agonists Among Individuals Undergoing Bariatric Surgery in the US. *JAMA Surg*. 2025;160(10):1058–1066. doi:10.1001/jamasurg.2025.3089

