



# **ESG Plus Obesity Management Meds to Treat Obesity**

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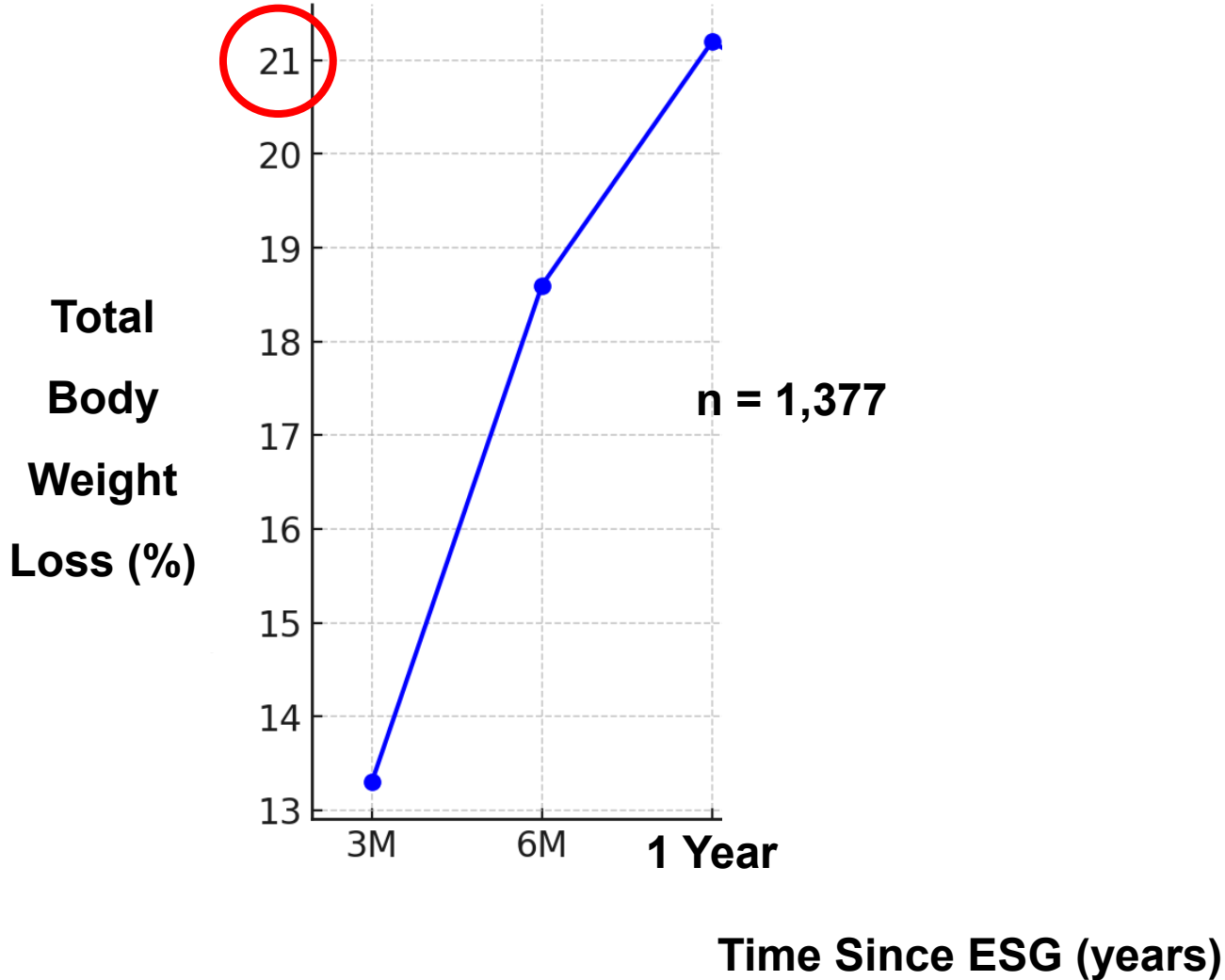
# Scientific Advisory Boards

- Lumen Bioscience
- GI Dynamics
- Gila Therapeutics
- Endogenex

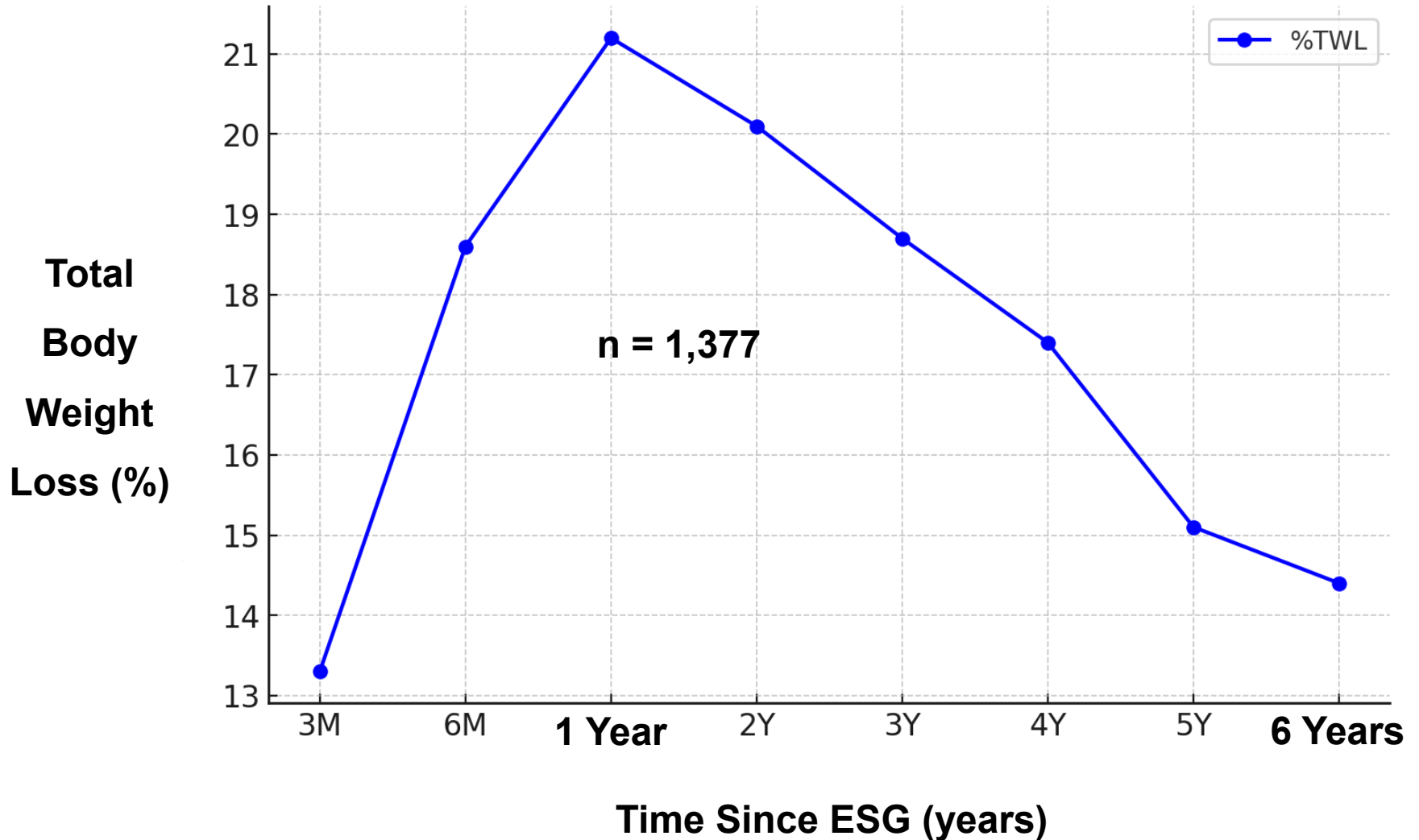
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especially long-term**

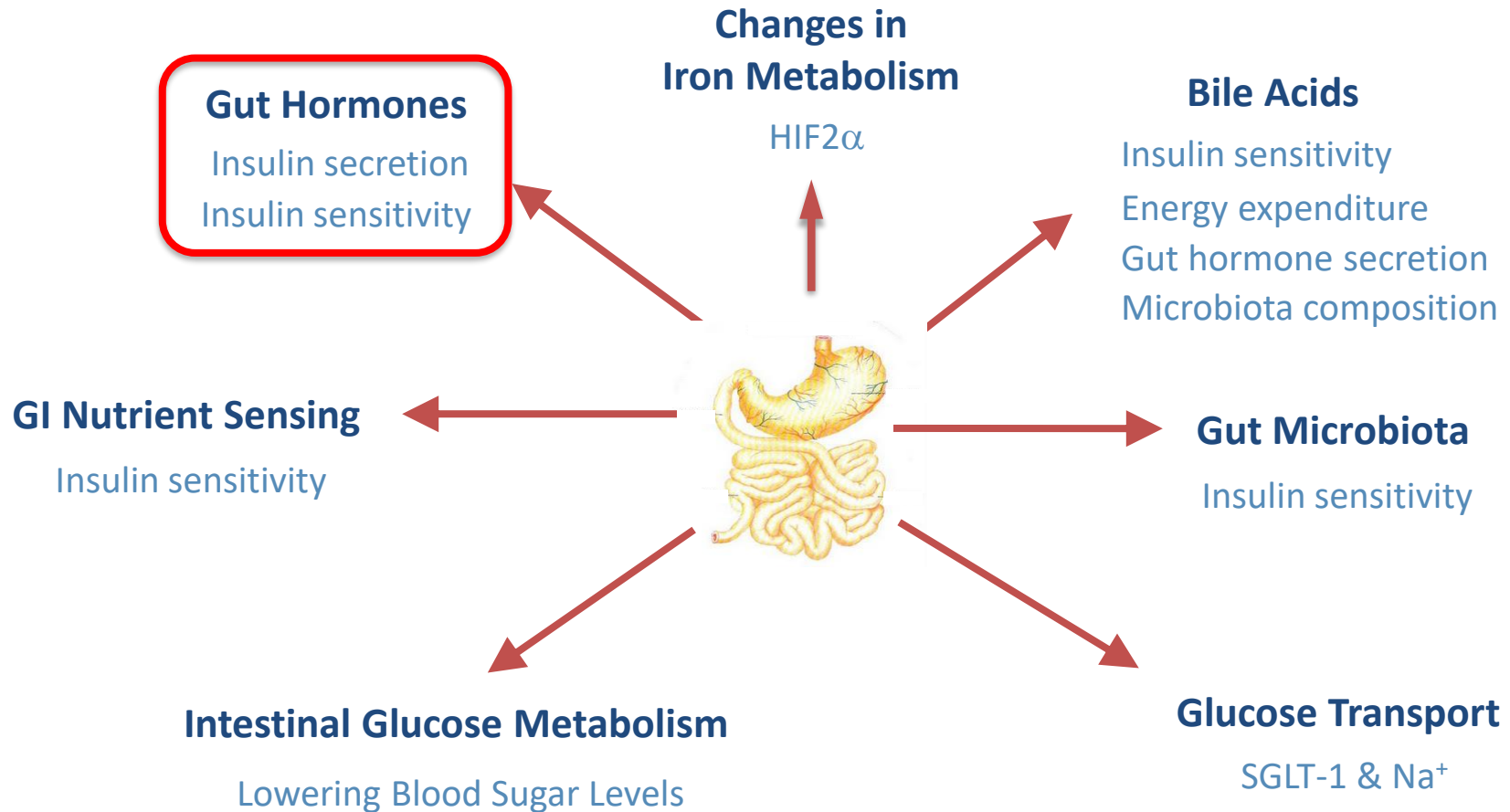
# Weight Loss After ESG



# Weight Loss Wanes Substantially Over Time After ESG



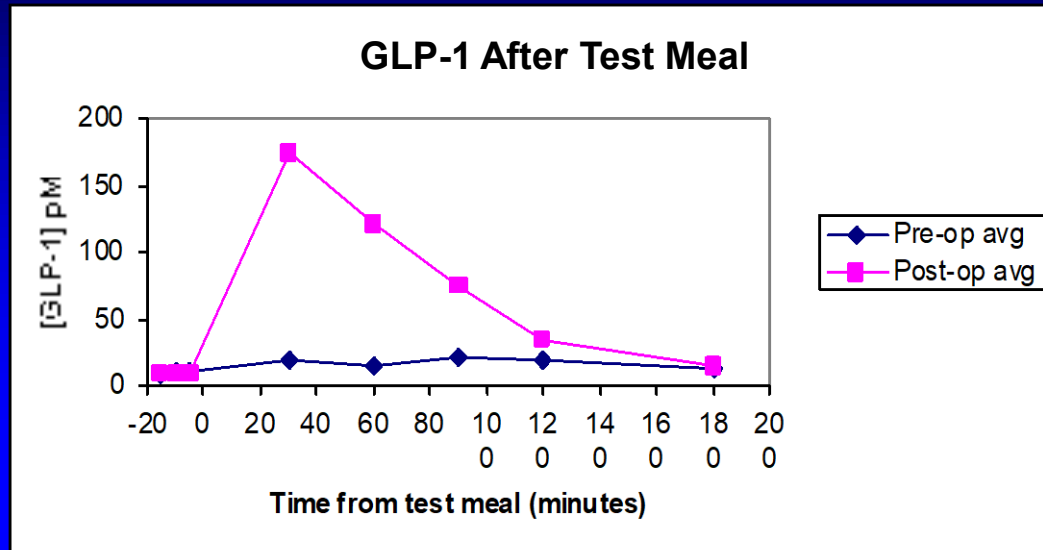
# Weight-Independent Anti-Diabetes Mechanisms of Metabolic Surgery



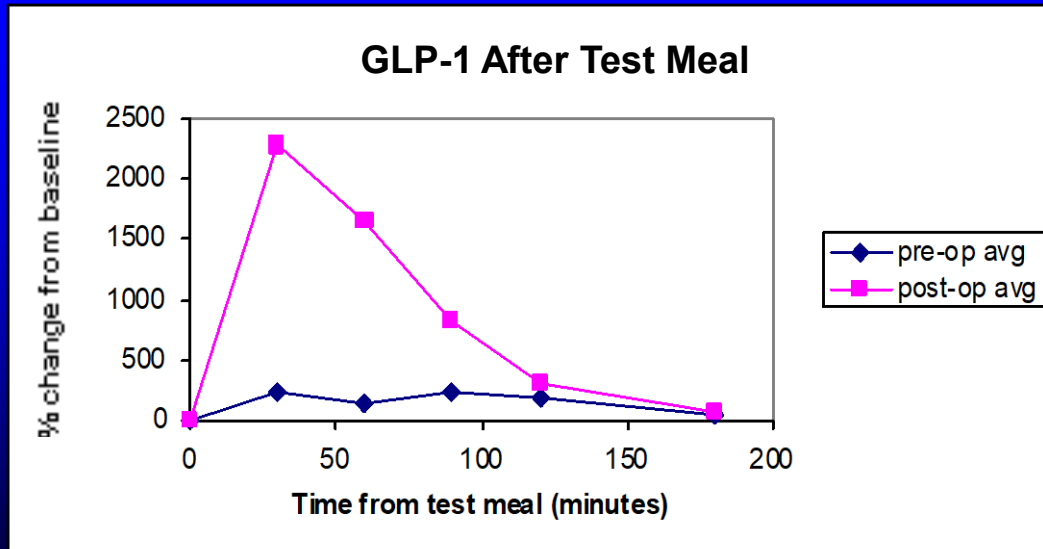
**Other unknown mechanisms?**

# Plasma GLP-1 Increases After RYGB in Humans

Plasma GLP-1  
(pM)



Plasma GLP-1  
(% change  
from  
Baseline)



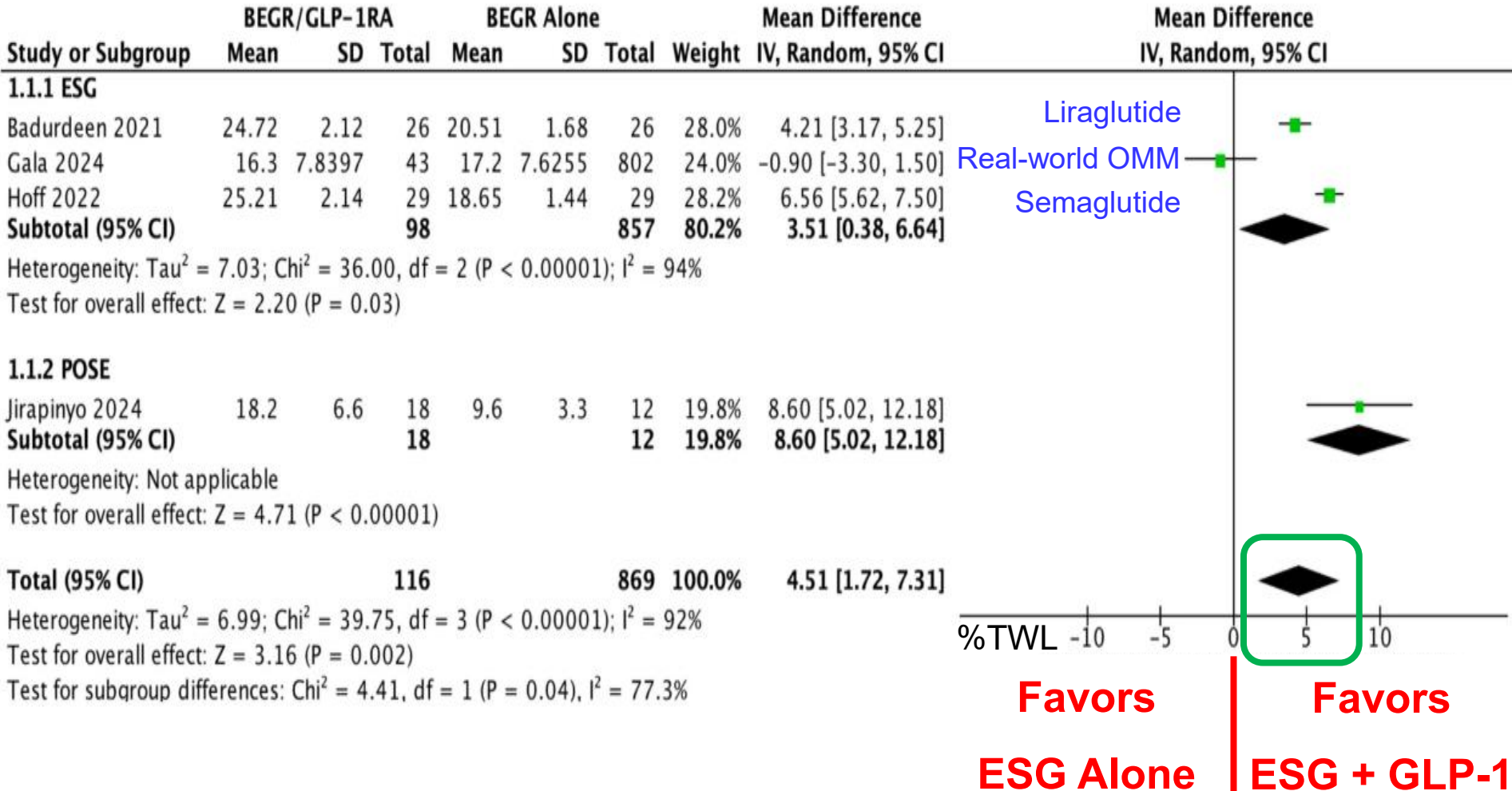
Carlson M.....  
Cummings DE

**Metabolic surgery  
increases GLP-1 secretion**

**Metabolic surgery  
increases GLP-1 secretion,  
but ESG does not**

**To better approximate  
metabolic surgery,  
it's logical to add GLP-1  
receptor agonists to ESG**

# Weight Loss with ESG +/- GLP-1 Receptor Agonists



**n = 985**

# When to Start OMMs with ESG?

- OMMs started from 1-6 mo after ESG in published studies
- Better weight-loss outcomes when OMMs started at weight nadir after metabolic surgery than after weight regain (might help explain Gala et al.)
- But: worry about GI side effects if GLP-1 meds started too early after ESG

# Summary

- OMMs augment weight loss after ESG
- GLP-1 agonists make particular sense
- Timing of when best to start OMMs relative to ESG is unknown



Thank you