

Synopsis of the original article
'Gastrointestinal tolerability of once-weekly semaglutide 2.4 mg in adults with overweight or obesity, and the relationship between gastrointestinal adverse events and weight loss'

Wharton S, et al. Diabetes, Obesity and Metabolism
2021;1–12. doi: 10.1111/dom.14551

Synopsis created and reviewed by Novo Nordisk

Introduction



Semaglutide is a glucagon-like peptide-1 receptor agonist (GLP-1RA) with FDA approval for weight management in individuals with obesity or overweight with ≥ 1 weight-related comorbidity



In the Semaglutide Treatment Effect in People with obesity (STEP) trials, once-weekly semaglutide 2.4 mg produced clinically meaningful weight losses

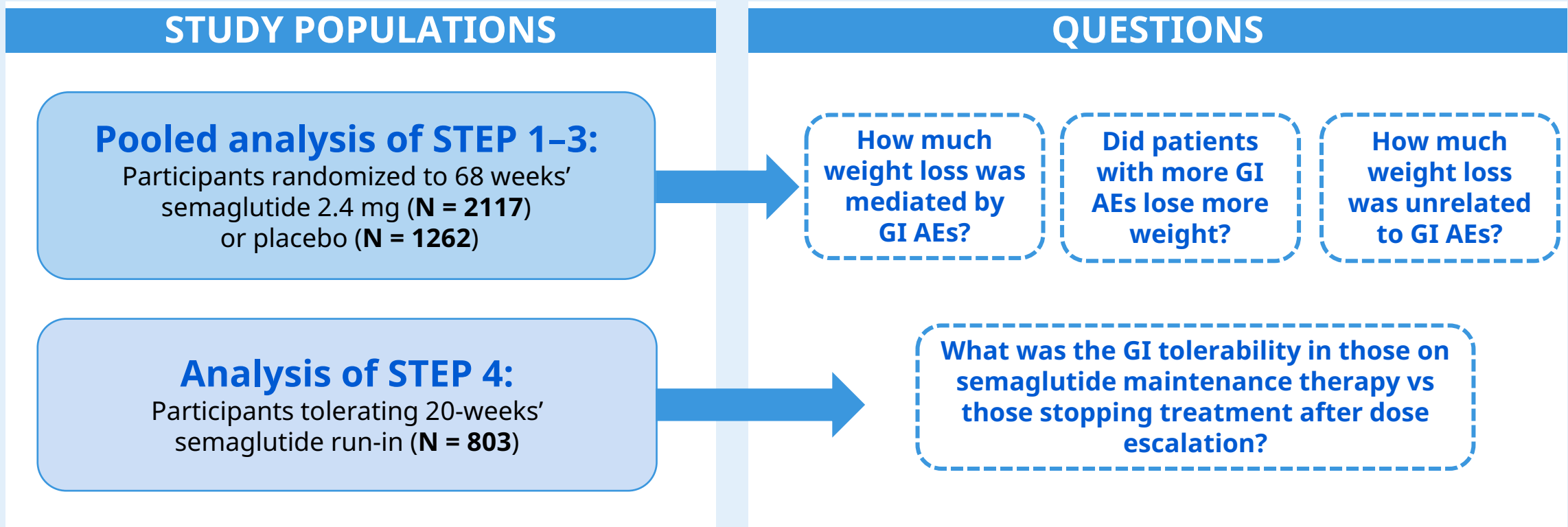


Gastrointestinal (GI) adverse events (AEs) are frequently reported by people taking medicines belonging to the GLP-1RA class



We evaluated GI AEs in participants taking semaglutide 2.4 mg in the STEP 1–4 trials, and examined whether these AEs contributed to the observed weight loss

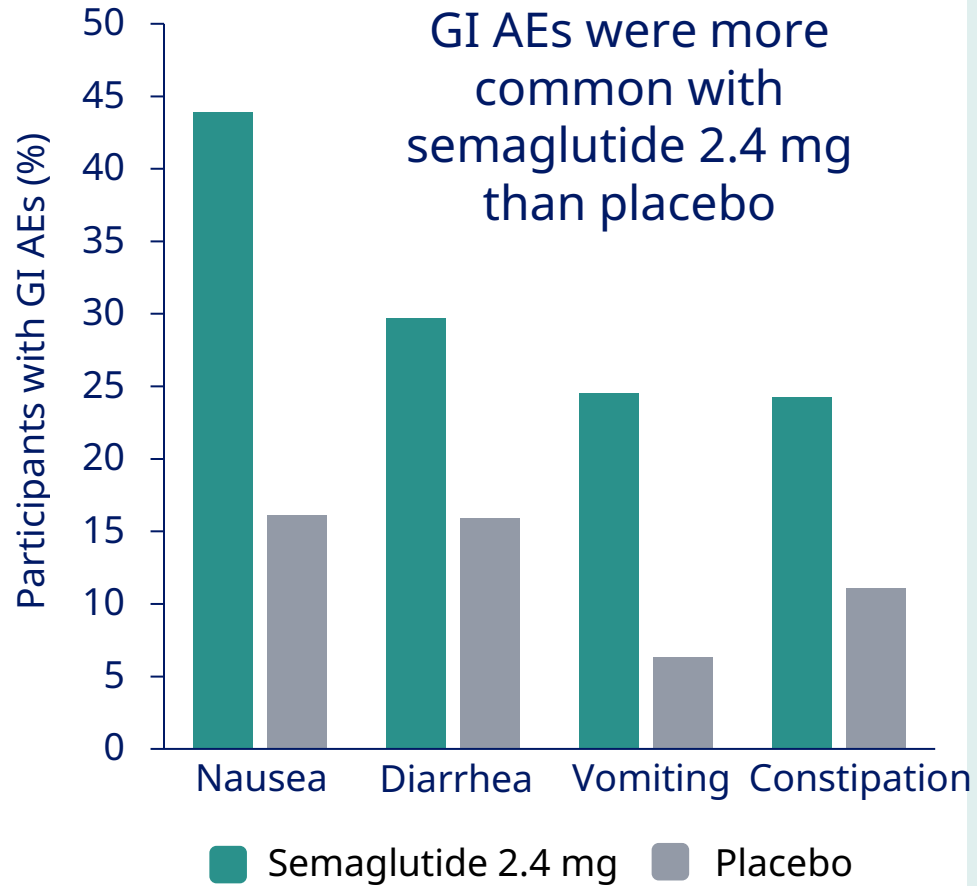
Methods



AE, adverse event; GI, gastrointestinal.

Synopsis of the original article 'Gastrointestinal tolerability of once-weekly semaglutide 2.4 mg in adults with overweight or obesity, and the relationship between gastrointestinal adverse events and weight loss.' Wharton S, et al. *Diabetes, Obesity and Metabolism*. 2021;1-12. doi: 10.1111/dom.14551 © 2021 Novo Nordisk A/S; Further reproduction and distribution is permitted

Results



However, most GI AEs with semaglutide were...

Non-serious (99.5%)

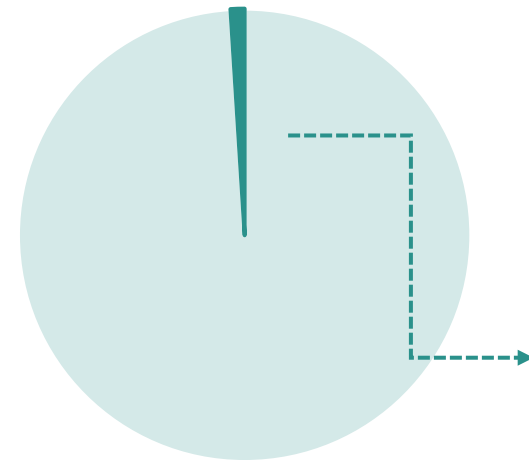
Mild-to-moderate (98.1%)

Transient (occurred during/shortly after dose escalation)

Mean weight loss in STEP 1-3 was similar in participants with and without GI AEs

With AEs **11.4%–17.7%**

Without AEs **9.6%–17.1%**



Of the additional weight loss with semaglutide vs placebo, **<1 %-point** was mediated by GI AEs

Synopsis of the original article 'Gastrointestinal tolerability of once-weekly semaglutide 2.4 mg in adults with overweight or obesity, and the relationship between gastrointestinal adverse events and weight loss.' Wharton S, et al. *Diabetes, Obesity and Metabolism*. 2021;1-12. doi: 10.1111/dom.14551 © 2021 Novo Nordisk A/S; Further reproduction and distribution is permitted

AE, adverse event; GI, gastrointestinal; STEP, Semaglutide Treatment Effect in People with obesity.

Conclusions



GI AEs were more common with semaglutide 2.4 mg than placebo, but were typically mild-to-moderate and transient

Semaglutide-induced weight loss was largely independent of GI AEs