

Synopsis of the original article
***Efficacy and safety of monlunabant
in adults with obesity and
metabolic syndrome: a double-
blind, randomised, placebo-
controlled, phase 2a trial***

Knop FK, et al. Lancet Diabetes Endocrinol 2025.

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Synopsis created and reviewed by Novo Nordisk

Introduction



Monlunabant is a novel **CB1R inverse agonist** that has demonstrated encouraging results for weight loss and tolerability

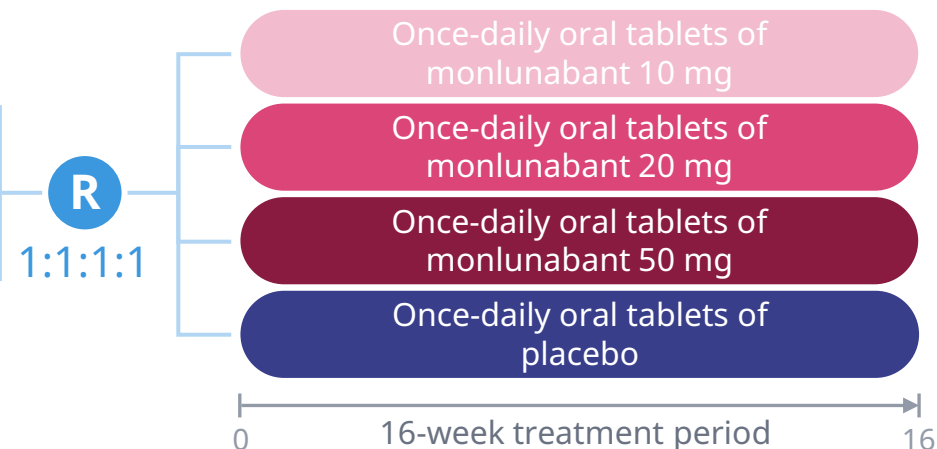
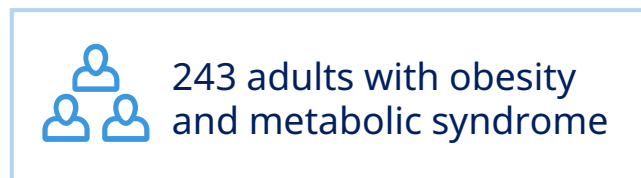


This study investigated the **efficacy** and **safety** of monlunabant in people with **obesity** and **metabolic syndrome**

Study design

Trial design

Phase 2a, randomised, double-blind, placebo-controlled, dose-ranging trial (NCT05891834)



Primary endpoint



- Change from baseline to week 16 in bodyweight (kg)
- The primary endpoint was assessed in all eligible randomised participants

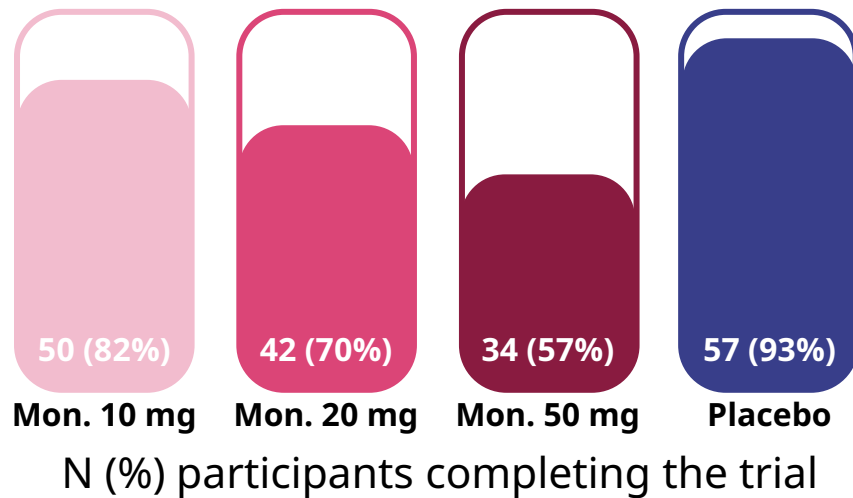
Safety



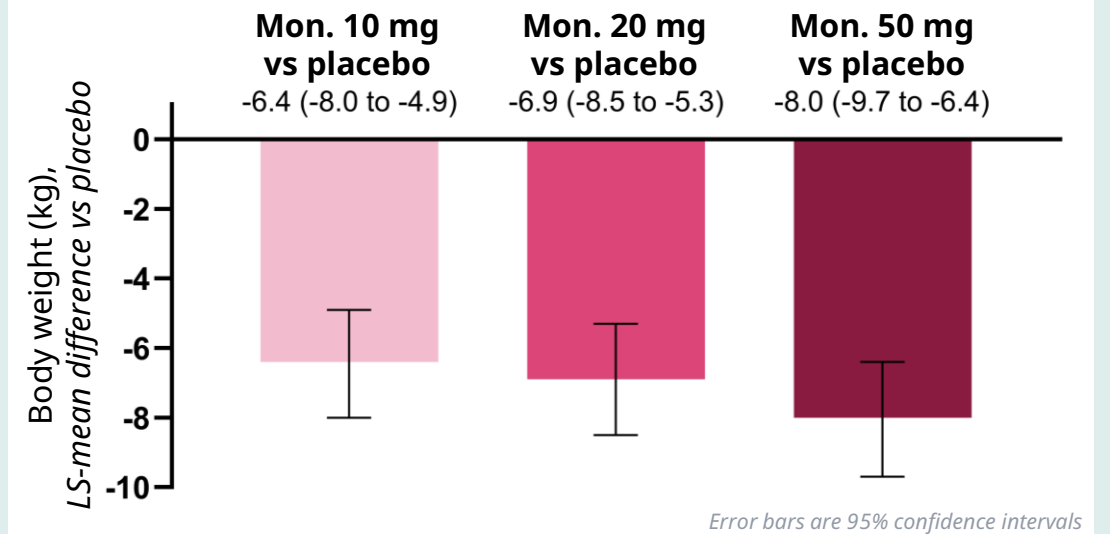
- The safety analysis was performed for all randomised participants receiving at least one dose of trial product

Efficacy

183 (76%) of 242 participants completed the trial



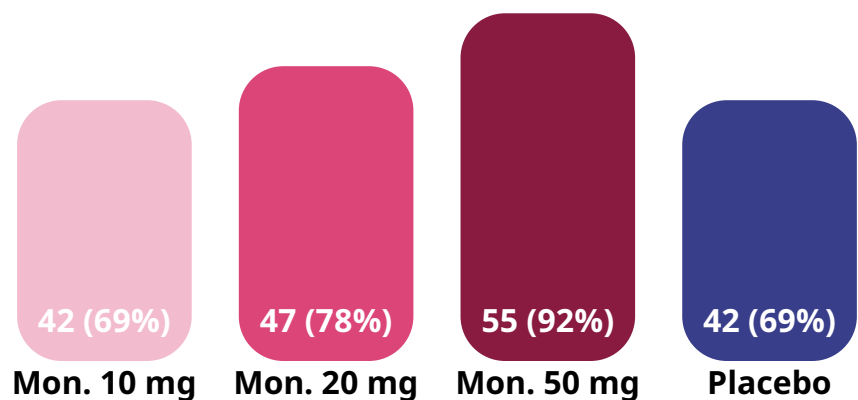
Participants receiving monlunabant showed **statistically significant and clinically meaningful weight loss** compared to placebo



Mon, monlunabant; LS-mean, least squares mean.

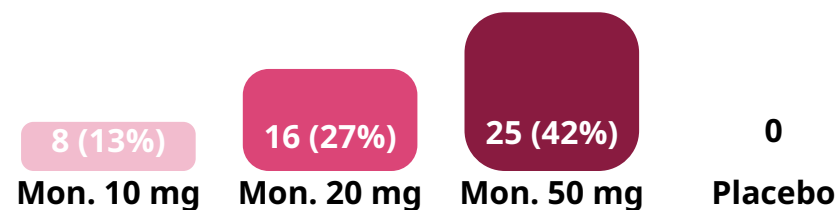
Safety

Adverse events were mostly mild to moderate **gastrointestinal** and **psychiatric disorders**



N (%) participants reporting adverse events

Withdrawals due to adverse events appeared **dose-dependent**, and were driven by nausea, anxiety, diarrhoea, irritability, and sleep disorder



N (%) participants withdrawing due to adverse events

Conclusion



Participants receiving monlunabant showed **statistically significant and clinically meaningful weight loss** compared with those receiving placebo for all tested doses



Only slightly greater weight loss was observed at higher doses, whereas **adverse events appeared dose dependent**



Further investigation is needed to assess the safety and efficacy of lower doses of monlunabant, to evaluate its potential as a medication for obesity