

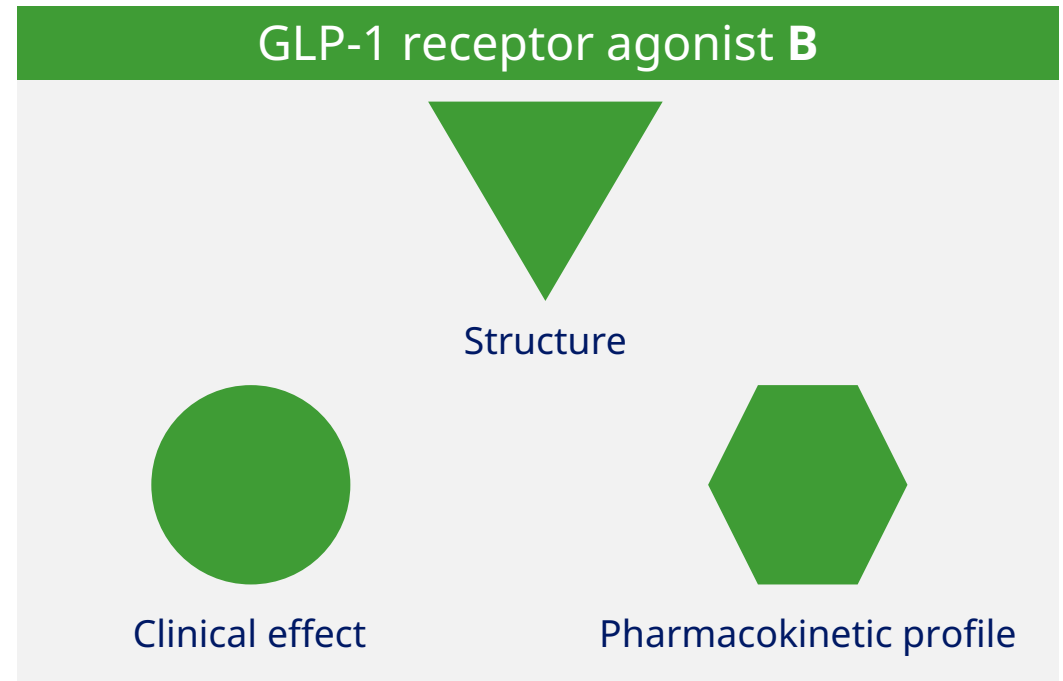
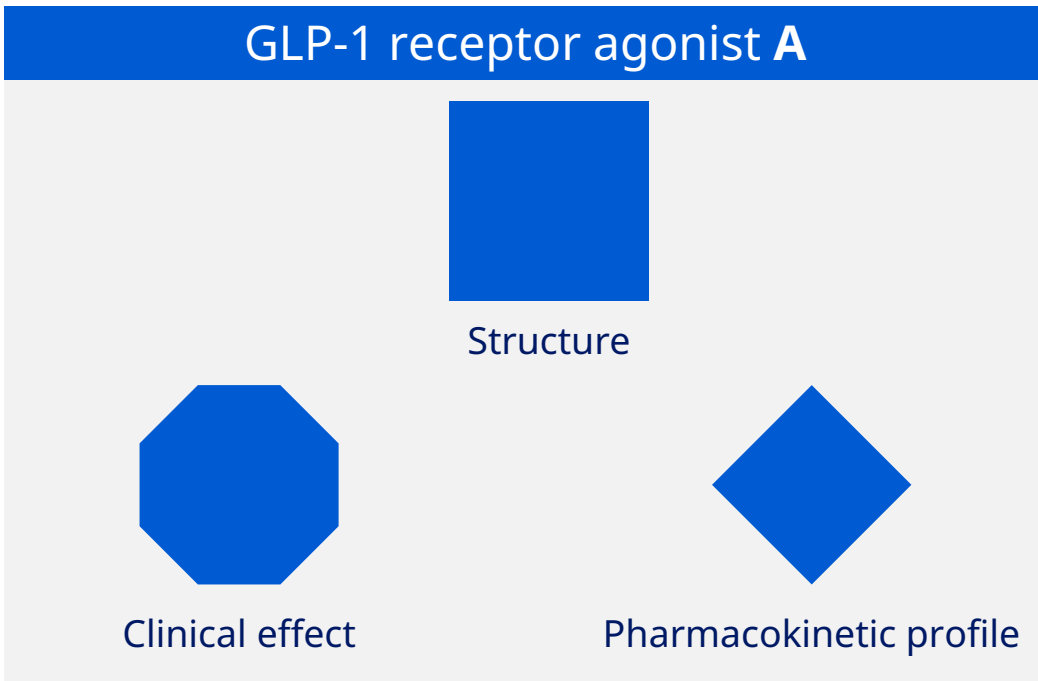
Synopsis of the original article
***‘Semaglutide versus dulaglutide
once weekly in patients with type 2
diabetes (SUSTAIN 7): A randomised,
open-label, phase 3b trial’***

Pratley RE, et al. Lancet Diabetes Endocrinol.
2018;6(4):275-286

Synopsis created and reviewed by Novo Nordisk

Introduction

Despite common mechanisms of actions, GLP-1 receptor agonists differ in structure, pharmacokinetic profile, and clinical effects

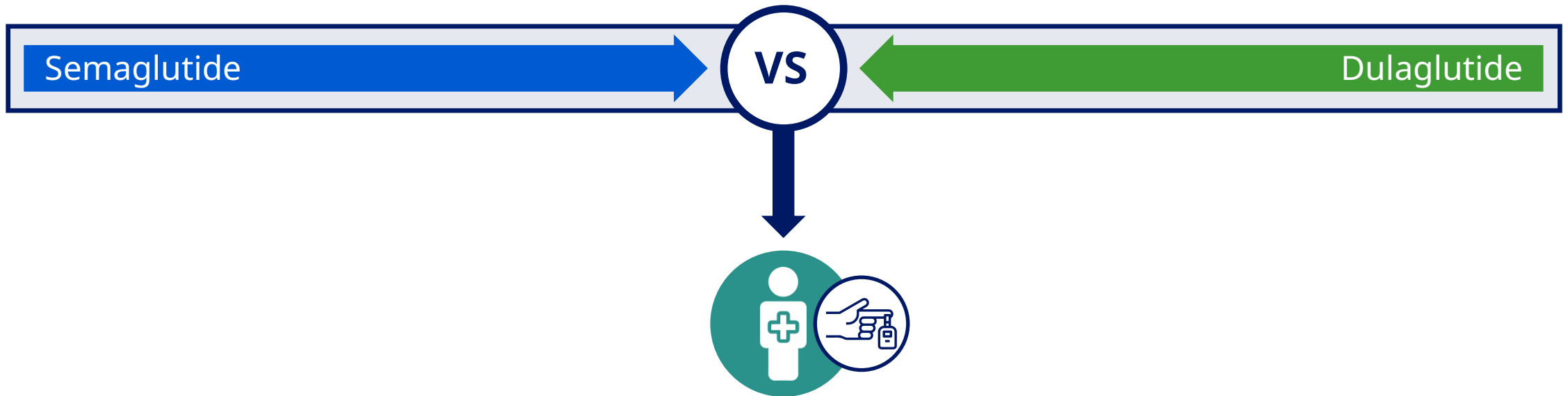


GLP-1, glucagon-like peptide-1.

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Introduction

This head-to-head trial compared:



In patients with inadequately controlled type 2 diabetes

Methods

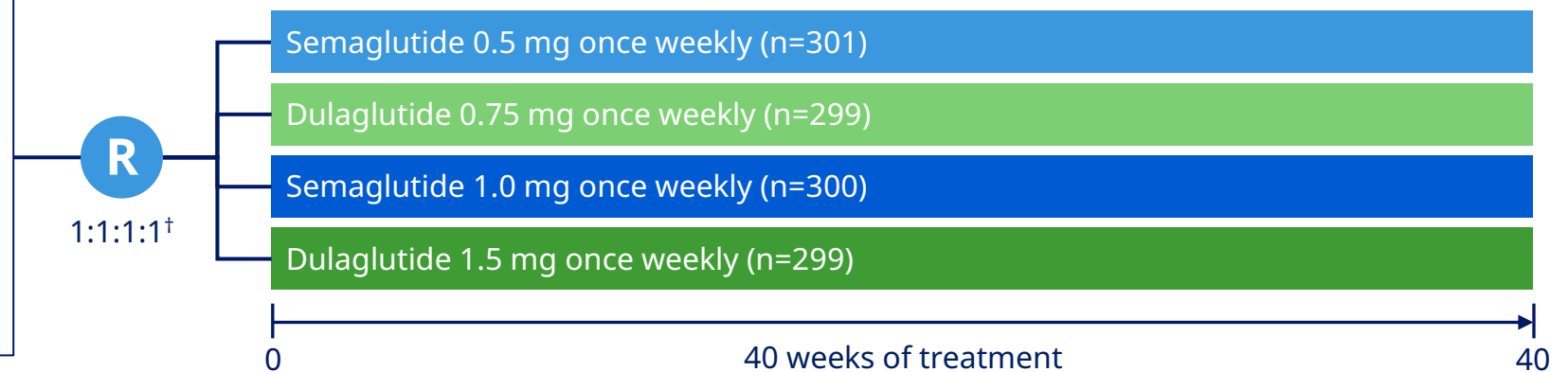
Open-label, parallel-group, phase 3b trial carried out at 194 hospitals, clinical institutions or private practices in 16 countries

Eligible patients

- Adults (≥ 18 years)
- Type 2 diabetes
- HbA_{1c} 7.0–10.5% (53.0–91.0 mmol/mol)
- Metformin monotherapy

Withdrawals

- 72 (6%)* patients withdrew



Trial powered for HbA_{1c} non-inferiority (margin 0.4%) and bodyweight superiority

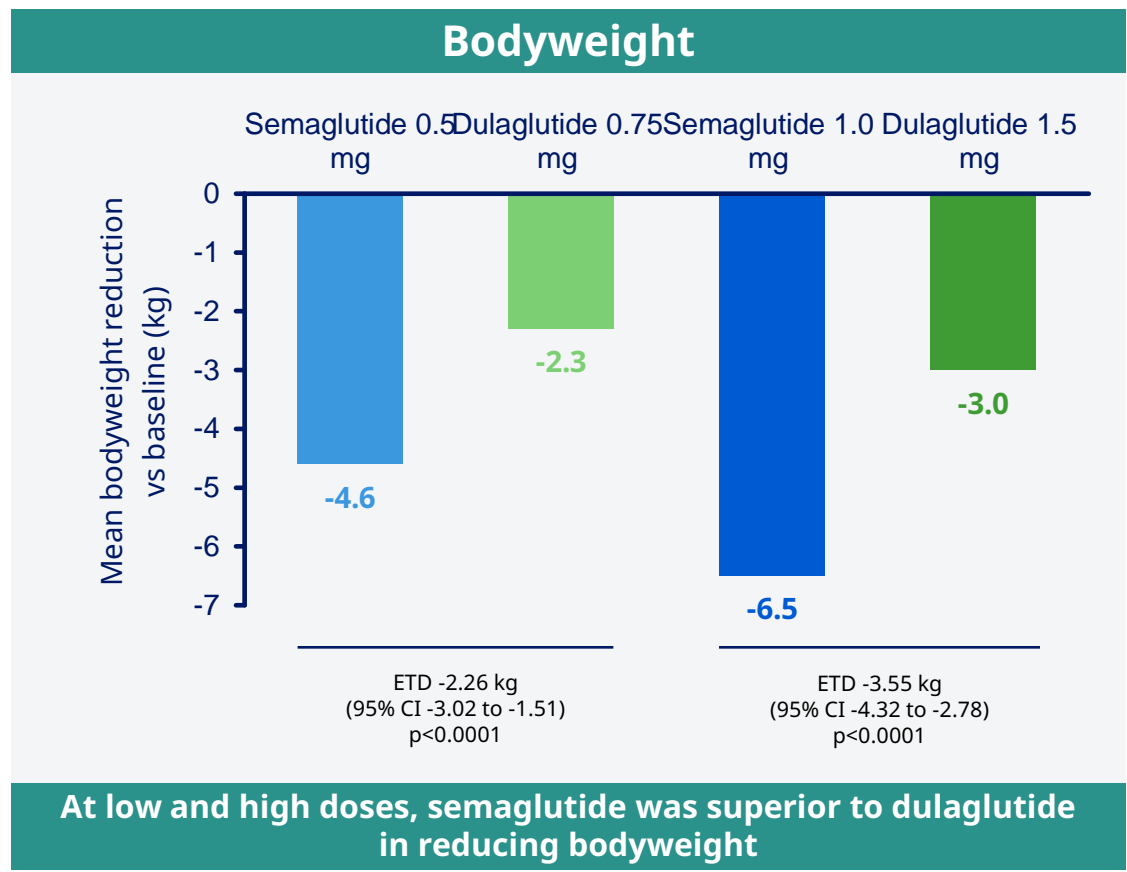
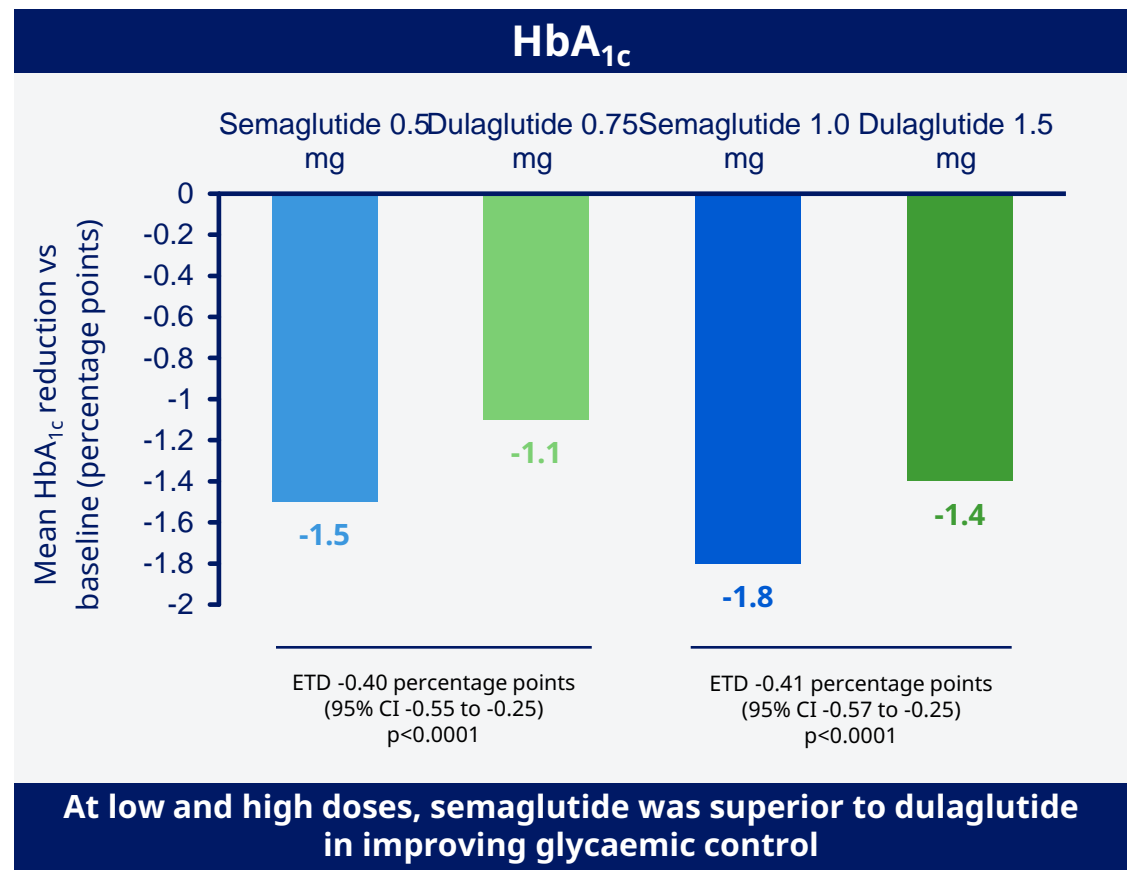
Primary endpoint:[‡] Change from baseline in percentage HbA_{1c} at week 40

Confirmatory secondary endpoint: Change in bodyweight at week 40

*Withdrawals: 22 patients receiving semaglutide 0.5 mg, 13 receiving dulaglutide 0.75 mg, 21 receiving semaglutide 1.0 mg, and 16 receiving dulaglutide 1.5 mg. [†]Patients were randomly assigned by use of an interactive web-response system. [‡]The primary analysis population included all randomly assigned patients exposed to at least one dose of trial product obtained while on treatment and before the onset of rescue medication. HbA_{1c}, glycated haemoglobin.

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Results: Efficacy



CI, confidence interval; ETD, estimated treatment difference; HbA_{1c}, glycated haemoglobin.

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Results: Safety



Gastrointestinal disorders were the most frequently reported AE, and the most common reason for discontinuing treatment with semaglutide and dulaglutide

	Semaglutide 0.5 mg (n=301)	Semaglutide 1.0 mg (n=300)	Dulaglutide 0.75 mg (n=299)	Dulaglutide 1.5 mg (n=299)
Gastrointestinal AE, n (%)	129 (43)	133 (44)	100 (33)	143 (48)
Fatality, n	1	1	2	2

AE, adverse event.

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Conclusions

Semaglutide was superior to dulaglutide at low and high doses:

- ↑ In improving glycaemic control
- ↓ And reducing bodyweight

Enabling a significantly greater number of patients with type 2 diabetes to achieve clinically meaningful glycaemic targets and weight loss



⊕ Semaglutide and dulaglutide had a similar safety profile