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The future for glycemic control and weight loss in T2D and obesity: Incretin-based dual-agonists and optimizing patient education



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Expert panel



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Phase III data for tirzepatide: A dual GIP/GLP-1 RA

- The SURPASS clinical trials enrolled adults with T2D inadequately controlled by antihyperglycemic medication^{1–4}
- Eligibility: HbA1c 7.0–10.5%; BMI ≥25 kg/m²; stable weight^{1–3}

Trial	Tirzepatide dose (mg)	Comparator	Duration (weeks)	HbA1c %-point change from BL (tirzepatide vs comparator)	Weight change from BL (15 mg dose vs comparator)
SURPASS-2 ¹ N=1,879	5, 10, 15	Semaglutide	40	-2.0 to -2.3% vs -1.9% (ETD, p<0.001 [10, 15 mg])	-12.4 kg (-13.1%) vs -6.2 kg (-6.7%) (ETD, p<0.001)
SURPASS-3 ² N=1,444	5, 10, 15	Insulin degludec	52	-1.9 to -2.4% vs -1.3% (ETD, all p<0.0001)	- 12.9 kg (-13.9%) vs +2.3 kg (ETD, p<0.0001)
SURPASS-4 ³ N=2,002 (Pts with T2D & 个CV risk)	5, 10, 15	Insulin glargine	52	-2.2 to -2.6% vs -1.4% (ETD, all p<0.0001)	-11.7 kg (-13.0%) vs +1.9 kg (+2.2%) (ETD, p<0.0001)
SURPASS-5 ⁴ N=475	5, 10, 15 Both as add-on to	Placebo o insulin glargine	40	- 2.2 to -2.6% vs -0.9% (ETD, all p<0.001)	- 10.9 kg (-11.3%) vs +1.7 kg (+1.8%) (ETD, p<0.001)

BL, baseline; BMI, body mass index; CV, cardiovascular; ETD, estimated treatment difference; GIP, glucose-dependent insulinotropic polypeptide; GLP-1, glucagon-like peptide-1; HbA1c, glycated hemoglobin; pts, patients; RA, receptor agonist; T2D, type 2 diabetes.



^{1.} Frías JP, et al. N Engl J Med. 2021;385:503–15; 2. Ludvik B, et al. Lancet. 2021;398:583–98; 3. Del Prato S, et al. Lancet. 2021;398:1811–24;

^{4.} Dahl D, et al. Diabetes. 2021;70(Suppl 1):80-LB.

* Phase I and II trials for BI 456906: A dual GLP-1/glucagon RA

- In a phase I dose-escalation trial in adults with obesity, BI 456906 was generally well tolerated and resulted in clinically relevant body weight reductions of up to 14% (vs up to 1% with placebo) after 16 weeks¹
- A phase II trial is underway to compare efficacy of BI 456906 vs placebo and semaglutide in ~410 patients with obesity and T2D²

Primary outcome: Absolute change in HbA1c from baseline to 16 weeks²

Phase IIb data for cotadutide: A dual GLP-1/glucagon RA

Trial	Cotadutide dose (µg)	Comparator	Duration (weeks)	Co-primary outcome Cotadutide 100, 200 & 300 μg vs placebo	
				%-point change in HbA1c from BL at week 14	% change in body weight from BL at week 14
Phase IIb double-blind study (N=834) Adults with T2D inadequately controlled with metformin; HbA1c 7.0–10.5%; BMI ≥25 kg/m²	100, 200 or 300 (double- blind)	Placebo or liraglutide 1.8 mg (open-label)	54	-1.1 to -1.3 vs -0.23 (all p<0.001)	- 3.0 to -5.0 vs -0.74 (all p<0.001)

Cotadutide also significantly decreased HbA1c and body weight at week 54 vs placebo (all p<0.001)

