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Summary

Beyond surgery: The expanding role of bariatric and metabolic endoscopy

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UEG Week Barcelona 2026 | Presentation

Surgery | Mechanisms & Personalised Medicine | Endoscopy

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The speaker reviewed advances in bariatric endoscopy including endoscopic sleeve gastroplasty with new automated suturing devices, experimental gastric fundus ablation combined with ESG reporting up to 28% mean total body weight loss, duodenal electroporation for diabetes, and emerging pancreatic gene therapy to induce endogenous GLP-1 production.

KEY POINTS

- The speaker reported that established endoscopic sleeve gastroplasty using three suturing devices achieves up to 80% gastric volume reduction with 16% total body weight loss in clinical practice and improvement in diabetes and fatty liver disease.
- A new automated suturing device delivers sutures in 30 to 60 seconds with near-zero learning curve and is being used in the speaker's practice within trials.
- The speaker described an experimental gastric fundus ablation procedure combined with ESG requiring 30 to 35 minutes total procedure time, with results at one and three months similar to ESG alone but improving over time to a mean maximum of 28% total body weight loss, with some patients exceeding 30%.
- Duodenal electroporation using non-reversible electroporation is being applied for selected diabetes patients and the speaker stated the duodenum reacts better compared to before treatment.
- The speaker described an emerging pancreatic gene therapy approach using attenuated adenovirus to deliver genes into pancreatic beta cells to produce endogenous GLP-1, with first-in-human studies starting and the speaker's hospital among the first in Europe to offer it.

– The speaker advocated for multidisciplinary combination treatment approaches selected for the patient's benefit rather than based solely on what individual clinicians know how to perform.

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