gutflix
GI learning, personalised

Summary

CLINICAL VALIDATION OF THE VIPUN GMS AS A GASTRIC MOTILITY MONITORING SYSTEM

Jan Tack

UEG Week Copenhagen 2023 | Poster

Small Intestine & Nutrition

October 15, 2023

A validation study in 13 healthy volunteers found that the VIPUN Gastric Monitoring System, a novel balloon-based feeding tube device, demonstrated strong correlation (ρ = 0.96) with high-resolution manometry for measuring gastric contraction duration.

KEY POINTS

- The VIPUN Gastric Monitoring System consists of a feeding tube with an inflatable balloon and control unit that records intra-balloon pressure to analyze gastric motility in patients at risk for dysmotility and feeding intolerance.
- In this monocentric interventional study, the device was compared to high-resolution manometry in 13 healthy adults during a 2.5-hour measurement period that included liquid meal infusion.
- The Spearman correlation between GMS and manometry for contraction duration was 0.96 ($p < 0.01$), with similar total contractile activity per subject: 2588.7 seconds on manometry versus 2722.3 seconds on GMS ($p = 0.44$).
- GMS software-detected contractions correlated 0.87 with reader-identified manometry contractions, and nutrient infusion resulted in significant decreases in both tonic and phasic contractility.
- Device placement was feasible and safe with no serious adverse events; the authors concluded that the strong correlations validate the GMS performance as a gastric monitoring system.

VIEW THIS CONTENT ON GUTFLIX

https://gutflix.eu/search/d/eae06610-743b-11ee-98e0-0242ac140004

AI-generated summary

This summary was generated by an AI large language model based on the content transcript. It is for informational purposes only and should not be considered a substitute for clinical judgment. Always rely on your professional expertise and the full clinical context when making clinical decisions.