

A NOVEL GASTRIC PERORAL ENDOSCOPIC MYO-NEUROTOMY TECHNIQUE FOR BARIATRIC INTERVENTION: EFFICACY AND SAFETY IN A PORCINE MODEL

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A revised peroral endoscopic myo-neurotomy technique (R-POEM-N) using a submucosal approach effectively limited weight gain and reduced food intake in a porcine obesity model over 8 weeks.

KEY POINTS

- R-POEM-N was successfully completed in all 8 pigs without major adverse events, with a mean procedure time of 171.3 ± 3.0 minutes.
- At 8 weeks, the proportional change in body weight was significantly lower in the R-POEM-N group compared to sham controls ($P = 0.017$).
- Food intake was significantly reduced in the R-POEM-N group ($P < 0.05$), while serum glucolipid levels showed no significant differences between groups.
- The authors suggest R-POEM-N may serve as a promising, minimally invasive bariatric intervention, addressing limitations of endoscopic sleeve gastropasty such as gastric mucosal folding and reduced visibility.

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