DELIVERY OF FIBRIN GLUE AND POLYGLYCOLIC ACID SHEETS VIA THE ENVELOPE METHOD FOR GRAVITATIONAL AND ANTI-GRAVITATIONAL POST-ENDOSCOPIC SUBMUCOSAL DISSECTION ULCERS

Nobuaki Ikezawa

UEG Week Copenhagen 2023 | Poster

Oesophagus

October 15, 2023

The envelope method for applying polyglycolic acid sheets significantly reduces application time and improves coverage quality compared to conventional methods for both gravitational and anti-gravitational post-ESD ulcers in a porcine model.

KEY POINTS

- The envelope method showed significantly shorter application times than the conventional method for gravitational ulcers (0.32 min/cm^2 vs 1.0 min/cm^2, p=0.002) and anti-gravitational ulcers (0.50 min/cm^2 vs 1.2 min/cm^2, p=0.002) in living porcine stomachs.
- Endoscopic examination revealed that the envelope method produced flat, minimally overlapping PGA sheets in anti-gravitational ulcers, while the conventional method resulted in uneven sheets and clumping.
- Histological analysis demonstrated that the envelope method provided uniform coverage of the ulcer floor with PGA sheets and fibrin glue, whereas the conventional method left gaps between sheets.
- The envelope method, developed in 2017, stores PGA sheets in a protective envelope carried alongside the endoscope to prevent exposure to saliva or mucus and was previously found effective only for gravitational ulcers.
- This study demonstrates the envelope method is applicable for both gravitational and anti-gravitational ulcers and may have utility in preventing post-gastric ESD bleeding, which affects 0%-15.6% of patients.

VIEW THIS CONTENT ON GUTFLIX

https://gutflix.eu/search/d/f951d422-743b-11ee-9d79-0242ac140004

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.