THE DUMPLING TECHNIQUE: A NEW METHOD FOR INJECTING FIBRIN GLUE INTO A POCKET CREATED BY ENDOSCOPIC SUTURE TO PREVENT DELAYED BLEEDING FROM POST-ESD ULCERS

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The Dumpling technique, which injects fibrin glue into sutured post-ESD ulcers using a double-lumen catheter, achieved significantly higher pressure resistance compared to clip suturing alone in an ex vivo bleeding model.

KEY POINTS

- In an ex vivo bovine rectum bleeding model (N=5), the Dumpling technique group showed mean pressure resistance of 134.5 ± 36.8 mmHg compared to 40.2 ± 14.0 mmHg in the clip suture-only group.
- The technique combines a double-lumen catheter for fibrin glue injection with clip suturing of the post-ESD ulcer, creating a tamponade effect through compression while encasing the glue in a dumpling-like appearance.
- The double-lumen catheter is necessary because fibrin glue's two components (fibrinogen and thrombin solutions) gel within seconds when mixed, making single-lumen catheters unsuitable.
- Feasibility was confirmed endoscopically on porcine and bovine explanted tissue, with specimens showing sufficient fibrin glue filling in the sutured pocket.
- The authors plan in vivo porcine studies followed by clinical trials and note that one study author is employed by the fibrin glue manufacturer.

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