Novel Endoscopic Repair Technique for gastrointestinal Leaks and Perforations using Negative Pressure Therapy with Open-pore Polyurethane–foam and Film Drainages

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Background

Endoscopic Negative Pressure Therapy (ENPT) has been developed to treat gastrointestinal defects. It has been referred for rectum and esophageal leakages in several studies. We adapted ENPT to treat duodenal defects. We report ENPT in a series of 10 patients with duodenal leakages.

Material: The tip of a drainage tube is wrapped with open-pore Polyurethane (PU)-foam or a very thin open-pore film.

All leakages of duodenum were closed with ENPT after a treatment period of 11 days in median (range 7-19 days).

Conclusion: Endoscopic Negative Pressure Therapy is a new promising method to treat duodenal leakages.

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