

ENDOSCOPIC RETROGRADE APPENDICITIS THERAPY VERSUS ANTIBIOTIC THERAPY FOR ACUTE UNCOMPLICATED APPENDICITIS: A META-ANALYSIS OF PROPENSITY-SCORE MATCHED AND RANDOMIZED STUDIES

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Poster

Colorectal

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A meta-analysis of 3 studies comparing endoscopic retrograde appendicitis therapy (ERAT) to antibiotic therapy in 1,241 patients with acute uncomplicated appendicitis found no significant difference in treatment success or recurrence, but ERAT reduced hospital stay by 1.85 days.

KEY POINTS

- ERAT showed no statistically significant difference from antibiotic therapy in treatment success (RR 1.06, 95% CI 1.00-1.12, $p=0.07$) or overall recurrence rate (RR 0.36, 95% CI 0.11-1.22, $p=0.10$) over 3-12 months follow-up.
- ERAT was associated with a significantly shorter length of hospital stay compared to antibiotic therapy (mean difference -1.85 days, 95% CI -3.15 to -0.55, $p=0.005$).
- A subgroup analysis of adult patients showed ERAT was linked to a lower recurrence rate compared with antibiotic therapy.
- The analysis included 457 ERAT patients and 784 antibiotic therapy patients from two propensity-score matched cohorts and one randomized trial, with baseline characteristics equally distributed.
- The authors state that larger randomised trials are required before ERAT can be integrated into clinical practice.

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