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Summary

SIGNIFICANT ADVANTAGES OF FIXATION OF ESOPHAGEAL SELF EXPANDING METAL STENTS:A SYSTEMATIC REVIEW AND META-ANALYSIS OF THE PUBLISHED LITERATURE

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Oesophagus

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A systematic review and meta-analysis of 9 studies involving 727 patients found that fixation of fully covered self-expandable metal stents reduced esophageal stent migration rates compared to non-fixation.

KEY POINTS

- Stent migration occurred in 16.1% of fixed stents versus 32.8% of non-fixed stents (OR 0.36, 95% CI 0.20-0.64), representing a statistically significant reduction.
- Clinical success was achieved in 68.9% of fixed stent procedures compared to 56.1% of non-fixed procedures (OR 1.94, 95% CI 1.10-3.41).
- Mean time to stent migration was 7.8 days longer in the fixation group (29.4 days versus 21.6 days, p<0.0001).
- Overall adverse events including pain, bleeding, and perforation did not differ between fixation and non-fixation groups.
- Subgroup analysis showed endoscopic suturing specifically reduced migration rates to 16.3% versus 32.8% without fixation (OR 0.37, 95% CI 0.19-0.72).

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