

IMPACT OF A NOVEL BIPOLAR DEVICE ON ACCESSORY EXCHANGE AND POST-OPERATIVE PAIN AFTER PER-ORAL ENDOSCOPIC MYOTOMY: A MULTICENTER, PROSPECTIVE COHORT STUDY

Jayanta Samanta

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Poster

Oesophagus

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A prospective multicenter study of 278 achalasia patients found that a novel bipolar device for POEM required significantly fewer accessory exchanges and was associated with reduced post-operative pain compared to conventional monopolar knives, with comparable technical success and adverse event rates.

KEY POINTS

- Median accessory exchanges during POEM were significantly lower with the bipolar device compared to monopolar knife (1 versus 3, $p=0.001$), and coagulation forceps use was also significantly reduced (0 versus 1, $p=0.001$).
- The proportion of patients experiencing moderate to severe post-operative pain was significantly lower in the bipolar device group (56.9% versus 79.6%, $p=0.001$), though median pain scores were similar between groups.
- Technical success rates (98.3% versus 100%), mean procedure times (50.9 versus 52.5 minutes), and adverse event rates (10.3% versus 8.2%) were comparable between the bipolar device and monopolar knife groups.
- This multicenter prospective cohort study included 278 achalasia patients treated with POEM between December 2019 and January 2023, with 58 patients in the bipolar device group and 220 in the monopolar knife group.

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