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Summary

ELECTROSURGICAL KNIFE WITH THE WATER-JET FUNCTION OF TIP-TYPE DURING ENDOSCOPIC TREATMENT INJECTION

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A desktop laboratory study comparing five water-jet electrosurgical knives found that tip-type knives achieved higher injection efficacy into porcine stomach mucosa than sheath-type knives, despite lower water-jet speeds.

KEY POINTS

- Four of five water-jet knives showed higher water-jet speeds than a standard injection needle (control 1.21 g/20 sec), with sheath-type knives ranging from 2.56 to 3.09 g/20 sec and the tip-type knife at 1.79 g/20 sec
- The tip-type knife (ORISE ProKnife) demonstrated significantly higher injection efficacy (33.3%) into porcine stomach submucosa, second only to the standard injection needle (37.2%), while sheath-type knives ranged from 1.1% to 20.9%
- Higher water-jet speed did not correspond to higher injection efficacy; the tip-type knife achieved effective injection with a piercing mechanism, while sheath-type knives deposited gel on the surface
- The authors conclude that tip-type water-jet function electrosurgical knives may be preferable for effective submucosal injection during endoscopic treatments, though the study has limitations

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