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Summary

# COMPARATIVE STUDY OF DISPOSABLE AND REUSABLE ENDOSCOPE IN ESD TRAINING MODEL

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**Disposable endoscopes demonstrated acceptable performance compared to reusable endoscopes for simulated endoscopic submucosal dissection procedures in a training model study involving beginners and experts.**

KEY POINTS

- Six operators (3 beginners and 3 experts) performed ESD on 24 simulated 25 mm gastric lesions using either disposable (Ambu aScope Gastro) or reusable (Olympus GIF-Q260J) endoscopes in a training model.
- All procedures achieved 100% en bloc resection with no perforations or scope malfunctions; median procedure times were 24.2 minutes for disposable versus 19.6 minutes for reusable scopes, a difference that was not statistically significant (p=0.284).
- Expert operators showed nearly identical procedure times between scope types (16.4 vs 16.6 minutes, p=0.453), while beginners trended toward longer times with disposable scopes (29.5 vs 25.2 minutes, p=0.206).
- Operator questionnaires rated disposable scopes slightly lower than reusable scopes across all categories, particularly for image visibility (2.3±0.9 vs 4.0±0.6) and handle operability (3.5±0.8 vs 4.5±0.5), though disposable scopes scored in the moderate range for all assessed features.
- The authors plan to proceed to clinical research based on these training model findings; the study was supported by Ambu and KOTOBUKI Medical.

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