USEFULNESS OF THE NEW GASTRIC ENDOSCOPIC SUBMUCOSAL DISSECTION TRAINING MODEL (G-MASTER□) FOR TRAINEES; A MULTICENTER COMPARATIVE STUDY

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A retrospective study of 75 gastric endoscopic submucosal dissection cases found that inexperienced endoscopists who trained with the G-Master plant-based simulation model before each procedure demonstrated significantly faster resection speed and lower rates of perforation and operator change compared to those without simulation training.

KEY POINTS

- The study enrolled 75 first-through-fifth gastric ESD cases from 15 inexperienced endoscopists at five centers between March 2018 and February 2022, with 25 cases performed by trainees using G-Master simulation (5 endoscopists) and 50 cases by trainees without simulation training (10 endoscopists).
- Trainees using G-Master training before each ESD achieved significantly faster median procedure speed (13.1 mm2/min versus 8.1 mm2/min, p>0.001) with linear improvement from initial to last cases (11.8 to 23.1 mm2/min versus 8.5 to 12.0 mm2/min).
- The G-Master training group had zero perforations (0%) compared to one perforation (2%) in the non-training group, and lower operator change rates to expert endoscopists (20% versus 30%).
- En bloc resection rates did not differ between groups, and baseline endoscopist experience and case characteristics (location, size) were comparable.
- The G-Master model uses plant-derived materials to simulate gastric ESD without contamination issues associated with traditional porcine digestive tract training models.

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