

Use of a novel attachment device to aid in endoscopic food impaction removal

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INTRODUCTION

Esophageal food impaction

- common gastrointestinal emergency
- limited tools available
- prolonged procedure times
- procedures often require multiple tools

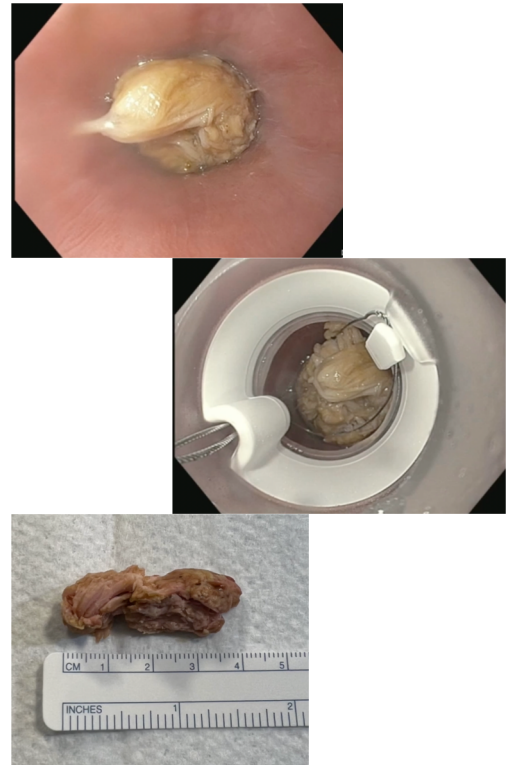
New tool designed for foreign body removal:
single-use attachment device consisting of a clear plastic cap that fits over the end of the endoscope with a snare threaded through it.

CASE DESCRIPTION

Four patients presented to ER with esophageal food impaction

- All hemodynamically stable
- No improvement with glucagon
- On EGD, food bolus seen in the esophagus
- Unable to gently push the bolus into the stomach

The combination cap and snare device was attached and with this device each ~4cm food bolus was removed entirely in one pass of the scope.



DISCUSSION

Use of a transparent cap has been shown to decrease procedure time in upper endoscopy food impaction from 47 minutes to 23 minutes^{1,2}

The included cases required only one pass of the endoscope to remove the food bolus, demonstrating that the use of the cap and snare device has the potential to significantly decrease endoscopy procedure time in these often complex cases.

REFERENCES

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2. Ooi, Marie, et al. "Comparison of cap-assisted vs conventional endoscopic technique for management of food bolus impaction in the esophagus: results of a multicenter randomized controlled trial." *The American Journal of Gastroenterology* 116.11 (2021): 2235-2240.