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May 5th, 11:30 AM - 1:30 PM

Improving Advanced Therapeutic Endoscopy Performance at an Academic Children's Hospital

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Snodgrass, Julia; Attard, Thomas M.; Ditsch, Donna; Colgan, John; Weston, Amanda; Koch, Jessica; Ibrahim, Nadia; Krasaelap, Pang; Slowick, Voytek; and Shroyer, Laura, "Improving Advanced Therapeutic Endoscopy Performance at an Academic Children's Hospital" (2022). *Research Days*. 17.
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Improving Advanced Therapeutic Endoscopy Performance at an Academic Children's Hospital

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Background

- Advanced therapeutic endoscopy is infrequently needed but critical in the management of children with complex gastroenterology disorders.
- Hands-on experience in specific advanced techniques, set up of endoscopy equipment and familiarity with new ancillary equipment for use during endoscopy have been intra-departmentally identified as potential areas for improvement.
- AIM: to improve provider scoring on an endoscopy practice test based on technical aspects of therapeutic techniques, indications and set up of standard and new endoscopic equipment by 20% over pre-practice session testing.

Methods

- Endoscopic hemostatic techniques, polypectomy and esophageal dilation were identified as areas of difficulty for endoscopists.
- A multi-station model of hands-on demonstrations and practical sessions using a pig-stomach model (Fig 2) and animal-only endoscopes.
- Demonstrators provided test questions focused on their respective stations.
- Outcome measure** was improvement in test scores; our goal was an improvement of 20%.
- Process measure** was the percent of total providers and trainees attending the activity; our goal was >50%.
- Balancing measure** was the amount of time committed to the training; our goal was < 2 hours.
- Attendees rating of the utility of the activity was captured on 5 point Likert scale.
- Our planned next PDSA cycle will address knowledge gap specific to more senior providers.

Results

- Overall, 14 providers (63.6% of total; 70% if adjusted for individuals on medical leave) were able to complete the endoscopy practice tests (5 fellows; 4 attendings with 6-10 years of experience, and 5 attendings with > 11 years of experience).
- Our outcome measure: improvement in competence test scores, increased from an average pre-test score of 51.3% to an average post-test score of 76.6% and therefore exceeded our goal.
- Our process measure exceeded our goal: 63.6% of providers and trainees attended the activity.
- Our balancing measure was at goal with all respondents reporting 2 hours committed to the activity.
- 100% of participants rated the activity as "Very Useful" on the Likert Scale.

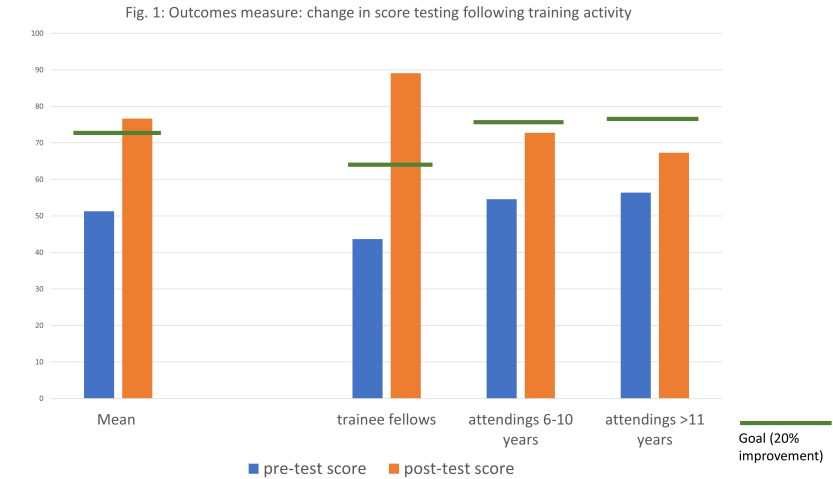


Fig 2: porcine esophagus + mediastinum without heart – pre-dissection

Conclusion

Provider scoring on an endoscopy practice test improved significant by 25.3% over baseline. Benefit was greater for trainees and more junior providers. Future sessions will increase focus on educational needs of senior providers.