

Overview

Initiating a change in the ECU Thoracic Surgical Education Model by producing, implementing, and analyzing video and cloud-based resources, in order to elevate medical student operative preparation and clinical/ academic experiences.

Need/ Rationale

Clinical Clerkships

- M3/M4 Students rotate through various clinical specialties¹
- Learning curves are different for each clerkship, as each hosts specific expectations about teaching, clinical acumen, and patient care²

Expectations and Perceptions

- The surgery clerkship is notable for being majorly different from most rotations, due to the need for operative skillsets and in-patient/ out-patient clinical knowledge²
- Students enter the Surgery clerkship with negative mindsets, which negatively impact their performance and grades³

Evaluations

- Medical students receive objective and subjective feedback throughout and concluding their rotation¹
- Objective Feedback
 - National Board Medical Examinations (NBMEs)
- Subjective Feedback
 - Resident and Attending mid-clerkship and end-clerkship Evaluations

Goals

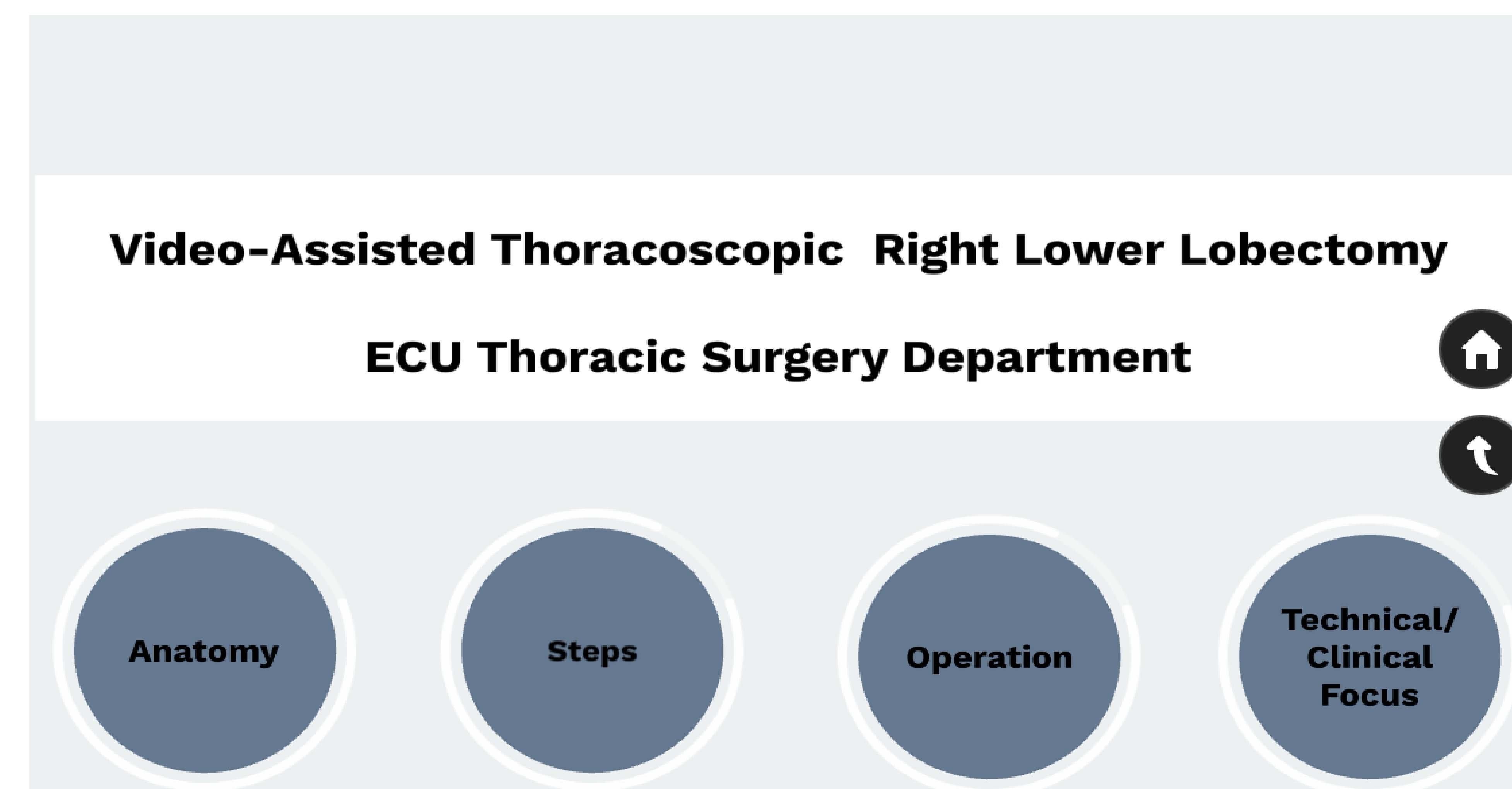
To enhance learners' clinical and operative experience, through department-specific, surgeon-produced content and anatomical review

To increase learners overall preparation for the material deemed important by NBME Clerkship Shelf and surgical leadership.

To create video-based educational content that can be accessed in a cloud-based platform, which emphasize the criticality of technical and clinical education

Specifications

Utilizing Prezi as the project nucleus, this homepage will have information reviewing anatomy, operation steps, technical/ clinical focuses and vignettes, and video-recordings of the operation.



Anatomy review: This review of anatomical knowledge will increase student comprehension of the clinical scenario and operation.

Operative Steps: Medical students will gain a general overview of the operation sequence, which will span from positioning to fascia closing.

Operation Videos: Video recordings will provide students visual insight into the specific-Attending operations and techniques.

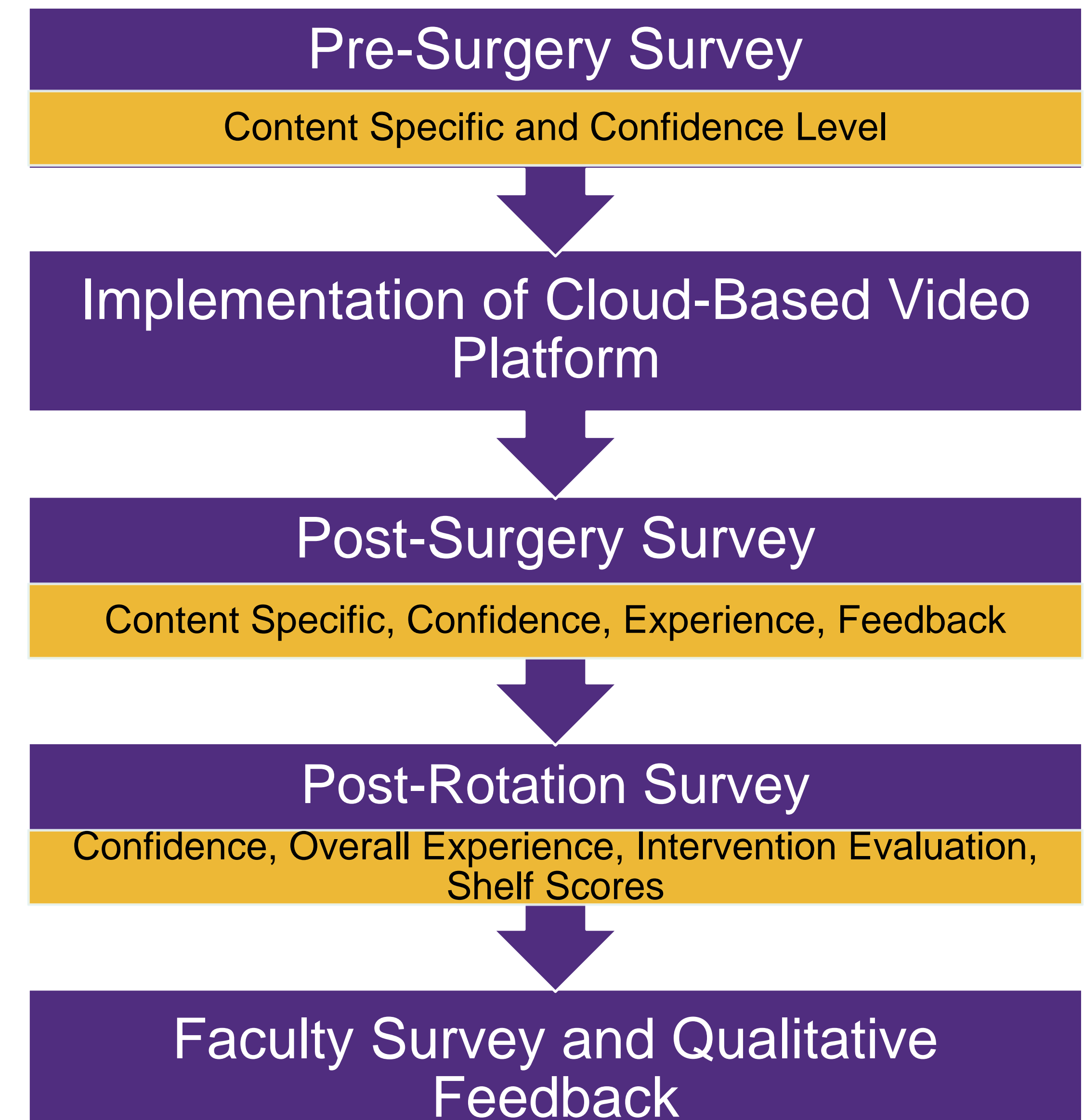
Technical/ Clinical Focus: Each operation will host a clinical vignette and/or "tips and tricks" regarding technical aspects of the operation.

Evaluation Plan

Qualitative and Quantitative outcomes will be utilized:

- Increased Student Confidence and Student Participation in the Operating Room
- Improved Faculty Evaluations and Real Time Feedback
- Improvement of student mid-clerkship shelf and clerkship shelf scores

Methods



References

1. Brody School of Medicine. (2022). *Student curriculum | Office of Medical Education | ECU*. Curriculum. Retrieved July 23, 2022
2. McKinley, S. K., Kochis, M., Cooper, C. M., Saillant, N., Haynes, A. B., Petrusa, E., & Phitayakorn, R. (2019). Medical students' perceptions and motivations prior to their surgery clerkship. *The American Journal of Surgery*, 218(2), 424-429.
3. Nnamani Silva, O. N., Hernandez, S., Kim, A. S., Campbell, A. R., Kim, E. H., Alseidi, A., Wick, E. C., Sosa, J. A., Gosnell, J., Lin, M. Y. C., & Roman, S. A. (2021). Where do we go from here? assessing medical students' surgery clerkship preparedness during covid-19. *Journal of Surgical Education*, 78(5), 1574-1582