Cloud-Based Resources for Medical Student Thoracic Surgical Clerkship Preparation

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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 homebase will have information reviewing anatomy, operation steps, technical/ clinical focuses and vignettes, and video-recordings of the operation.

Video-Assisted Thoracoscopic Right Lower Lobectomy

ECU Thoracic Surgery Department

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

Pre-Surgery Survey
Content Specific and Confidence Level

Implementation of Cloud-Based Video Platform

Post-Surgery Survey
Content Specific, Confidence, Experience, Feedback

Post-Rotation Survey
Confidence, Overall Experience, Intervention Evaluation, Shelf Scores

Faculty Survey and Qualitative Feedback

References