Background

Resident perception of what they should be studying prior to performing a surgery often differs from what the faculty mentor believes they should be studying. A 2007 study by Pugh et al. showed that surgical faculty and surgical residents have significantly different perceptions of residents’ learning needs. They showed that the disparity between faculty and resident perception of resident learning needs in the operating room can be attributed to “unperceived needs” – that is discrepancies not perceived by learners as learning needs (i.e., “I do not know what I don’t know”). Historically, there is wide range of options from which a surgical resident can choose from for his/her preoperative preparation ranging from surgical atlases, to textbooks to recommendations from their senior peers. According to a University of Iowa study, YouTube has become the most frequently used educational video source for surgical preparation. However, many surgical residents believe their current preoperative preparation is inadequate. Jabour et al. queried otorhinolaryngology residents about their preparation for surgical cases and found out that they do not consistently rate their case preparation as effective or efficient. Thus, surgical residents are often preparing for their cases with resources that their own faculty do not feel are important and doing it in an inefficient and ineffective manner. This capstone project will hopefully help otorhinolaryngology residents become more effective and efficient in their surgical preparation by reviewing videos that their faculty feel beneficial to the resident’s overall wellness and improve patient care.

Methods

1. Current MCW Otolaryngology residents were surveyed about their current preparation for surgical cases on their pediatric otolaryngology rotation.
2. MCW Pediatric Otolaryngology faculty determined which surgeries should require a learning video.
3. Faculty then screened existing teaching videos on the internet to determine if they were adequate or developed their own videos with the help of Kern institute members.
4. Once completed, the videos will be placed on D2L for resident self-directed learning.
5. Will assess surgical performance of resident after watching the videos.
6. A resident post survey of surgical preparation will be sent after implementation of the video library.

Conclusions

1. The project is incomplete at this time. We need to finish creating all the videos and housing them on D2L for the residents.
2. Will administer the post survey to the residents at the end of the next academic year.
3. Faculty will also be surveyed to assess surgical performance of the residents after watching the videos.
4. Hopefully, this video library will allow optimal use of resident study time to best prepare them for their surgeries and will benefit both the resident’s overall wellness and improve patient care.

My Entrepreneurial Mindset

CURIOSITY

I was most curious about if we could optimize resident surgical case preparation by providing a faculty derived resource that was both efficient and effective in its preparation.

Connections

Project Stakeholders:
Otolaryngology residents and their families
Pediatric Otolaryngology Faculty
Surgical patients at Children’s Hospital of Wisconsin and their families
Potential Future Stakeholders:
Medical Students
Otolaryngology residents at other residency programs

Creating Value

I hope this project provides a concise library of pediatric otolaryngology surgical videos that can be viewed in a timely fashion that will benefit both resident education and overall wellness and ultimately improve patient care.