Analysis of Endoscopic Simulators for Assessment of Surgical Skills of OBGYN Residents.

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Analysis of Endoscopic Simulators for Assessment of Surgical Skills of OBGYN Residents
Joseph Patruno, MD; Martin Martino, MD; Jhonathan Duarte, MD; Victoria Lawn, DO; Taylor Wejkszner; and Adriana Pero

Lehigh Valley Health Network, Allentown, Pennsylvania

BACKGROUND

• Accurately evaluating residents on their surgical skills is important to ensuring resident development and improving the quality of patient care
• Many residency programs utilize simulation training to refine and assess the residents' surgical skills
• Investigation of simulator training at LVHN could show a valid method to develop and evaluate the surgical skills of OBGYN residents

METHODS

• Study was conducted among OBGYN residents in five different class years in summer 2016 and summer 2017
• Residents were tested on surgical training simulators that imitated laparoscopy, hysteroscopy, and robotic surgeries

RESULTS

• Data shows differences in resident class year, most profoundly in the middle of residency (second to third year), but not necessarily improvement among same residents from 2016 to 2017
• A correlation was found between results and number of surgeries
• Time and efficiency, which are important skills for surgeons, improve as residents progress

CONCLUSION

• Possible investigation of patient outcomes with relation to simulation performance in attending physicians
• Creating baseline performance requirements or improvement expectations for residents
• Investigating other variables that may affect performance (sleep, rotation, mood, etc.)
• Linking simulation performance with Tips or B-Line evaluations

FUTURE RESEARCH

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