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A Comparative Analysis Using Endoscopic Simulation to Assess Surgical Skill of OB/GYN Residents

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A Comparative Analysis Using Endoscopic Simulation to Assess Surgical Skill of OB/GYN Residents

Joseph Patruno, MD, Timothy Pellini, MD, Martin Martino, MD, Jhonathan Duarte, MD, Taylor Corsi, Shannon Bonner



Lehigh Valley Health Network, Allentown, Pennsylvania

orrelation oefficents	Box –Trainer Time	Symbionix Time	Symbionix Path Length	Mimic Time	Mimic Economy o Motion
PGY	-0.387	-0.446	-0.630	-0.667	-0.466
			STORE STORES		

DISCUSSION

It can be inferred that implementation of the endoscopic simulation exercises utilized in this study would provide an additional method of objectively evaluating efficiency, dexterity, and technical ability of OB/GYN residents at LVHN. This conclusion can be made in light of the relationship between post-graduate year and endoscopic simulation performance. Additionally, the relationship between performance and number of procedures performed supports the conclusion as well. Interestingly, subjective evaluation methods of surgical skill, such as the Endoscopy Milestone and New Innovation assessments, may not be an adequate way to evaluate efficiency, dexterity, and technical ability, as there was no relationship between objective and subjective

FURTHER INVESTIGATION

- Utilize endoscopic simulation to trend annual
- performance throughout residency
- Compare endoscopic simulation performance to academic performance
- Compare endoscopic simulation performance to gender Compare endoscopic simulation performance to hours
- Compare resident and attending endoscopic simulation

Compare simulated surgical skills to actual clinical skills, possibly using crowd sourcing as a more objective assessment of actual clinical surgical skills



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