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- In Brazil, there is widely disparate access to health-care services, including surgical care, across various regions of the country. Inguinal hernia is a significant problem in underserved communities and most patients receive surgical repairs using a variety of open techniques with persistent utilization of tissue based repairs despite the public availability of mesh. In this study, a training program was successfully instituted to expand access to Lichtenstein hernioplasty. Each training session progressively improves patient access to high quality operations in underserved communities in Brazil.

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313 Prevalence and Predictors of Depression Among General Surgery Residents

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336 Acquisition, Retention and Transfer of Simulated Laparoscopic Tasks Using fNIR and a Contextual Interference Paradigm

Patricia A. Shewokis, Faiz U. Shariff, Yichuan Liu, Hasan Ayaz, Andres Castellanos, and D. Scott Lind

We applied a contextual interference paradigm to assess performance and cognitive effort during the acquisition, retention and transfer of simulated laparoscopic tasks. Optical brain imaging complemented standard performance measures used to assess novice skill acquisition in a laparoscopic virtual reality simulator.

346 A Needs Assessment of Education Research Topics Among Surgical Educators in the United States

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353 Implementation Results of a Novel Comprehensive Mental Skills Curriculum During Simulator Training

Dimitrios Stefanidis, Nicholas E. Anton, Graham McRary, Lisa D. Howley, Manuel Pimentel, Cameron Davis, Ashley M. Yurco, Nick Sevdalis, and Charles Brown

A novel mental skills curriculum was developed and implemented with surgical novices during simulator training in a pilot study of its effectiveness to reduce stress and enhance performance. Compared with their baseline performance, participants significantly improved their laparoscopic and mental skills after completing training, and the majority of participants were observed using mental skills during a transfer test of their surgical skills. A mental skills curriculum may enable surgical trainees to manage stress and optimize their performance. Ongoing studies will help further validate the effectiveness of this curriculum and support its application in surgical education.

362 All for Knots: Evaluating the Effectiveness of a proficiency-Driven, Simulation-Based Knot Tying and Suturing Curriculum for Medical Students During Their Third-Year Surgery Clerkship

Cianna Pender, Vladimir Kiselov, Qingzhao Yu, Jennifer Mooney, Patrick Greiffenstein, and John T. Paige

The institution of a proficiency-based suture and knot-tying curriculum within a 3rd-year medical student surgery clerkship resulted in improvement in students' attitudes toward these skills, objective acquisition of these skills via end of rotation testing, and suggestion

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