GlobalSurgBox: A Portable Surgical Simulator for Surgical Trainees Worldwide

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BACKGROUND

IMPACTANCE
• Decreases operative time
• Increases accuracy
• Produces safer surgeons

BARRIERS
• Affordability
• Access
• Portability
• Ease of implementation

PURPOSE

To evaluate whether a novel affordable and portable surgical simulator would be of value to surgical trainees in multiple countries across the income spectrum

RESULTS

• 60% had access to simulation resources
• Only 9.8% of these trainees stated they use these resources routinely
• 94.1% reported barriers to using surgical simulation
• After use:
  • 86.3% stated the simulator was a good representation of the OR
  • 94.1% stated it better prepared them for the operating room

METHODS

Participants across all three countries reported multiple barriers to surgical simulation in their current surgical training. The GlobalSurgBox eliminated many of these stated barriers by providing a portable, affordable, and realistic way to practice skills needed in the operating room.

DISCLOSURES

No relevant financial disclosures or conflicts of interest