Creation of a Gynecology Surgical Simulation Curriculum for LVHN Ob/Gyn Residents

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BACKGROUND

- Appropriate surgical skill is important in preventing intraoperative complications, reducing operative time, and assuring safe surgical outcomes (Birkmeyer et al., 2013).
- Traditional surgical residency program trainees continue to follow a “see one, do one, teach one” training apprenticeship model, during which residents operate on primarily live patients (Van Hove et al., 2010).
- Teaching surgical technique, skills, and procedures in a simulated environment has become critical in graduate medical education. It offers an environment where residents can safely learn and practice, ultimately optimizing future patient outcomes (De Montbrun and MacRae, 2012).

RESULTS

- We identified surgical procedures that LVHN Ob/Gyn residents should achieve competency in performing prior to graduation; for which the following training modules were developed:
  1. Ovarian Cystectomy and Oophorectomy
  2. Tubal Sterilization
  3. Pelvic Pain (Endometriosis and Adhesions)
  4. Cystoscopy and Urogenital Surgery
  5. Hereditary Breast and Ovarian Cancer (HBOC)
  6. Ectopic Pregnancy
  7. Basic Hysteroscopy
  8. Cervical Dysplasia (Cone Biopsy and LEEP)
- Each module follows a basic structure with an emphasis on case-based learning and application for the resident, as well as multifaceted evaluation tools.

METHODS

- Identify common and critical procedures for general Ob/Gyn residents
- Develop learning modules of eight common surgeries on Blackboard CourseSites, an online curriculum builder
- Design a reusable and sustainable lab simulation model for residents to practice surgical procedures, receive feedback on their technical skill improvement, and test knowledge

CONCLUSIONS

- This simulated surgical curriculum will be introduced in the structured training program for all Ob/Gyn residents.
- Modules are expected to improve residents’ technical skills and comfort level with critical gynecology procedures that both optimize true operative performance and protect patients.
- The curriculum also provides attending surgeons a standardized and sustainable means to better evaluate surgical performance and competency while providing remediation for needy trainees.
- Future work includes creation of additional modules.

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Fig. 1: Overview and Objectives
Fig. 2: Reading Material
Fig. 3: Case with Questions
Fig. 4: Post Test
Fig. 5, 6, 7: Development of Simulation Model
Fig. 8: Endometriosis
Fig. 9: Adhesions