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USING ORDINARY MATERIALS TO MAKE LOW FIDELITY SIMULATION
MODELS

Low Fidelity Simulation to Teach Procedural Skills

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Disclosure of Potential for Conflict of Interest

- *I have nothing to disclose*

Objectives:

- By the end of the workshop attendees will be able to:
- 1. identify ordinary objects which can be used to teach procedural skills to medical learners
- 2. create one or more low fidelity teaching tools for utilization in teaching in your home clinic
- 3. demonstrate the use of the created tool to your fellow workshop participants
- 4. develop low fidelity simulation tools for use at your teaching site

Procedures Amenable to Low-Fidelity Simulation

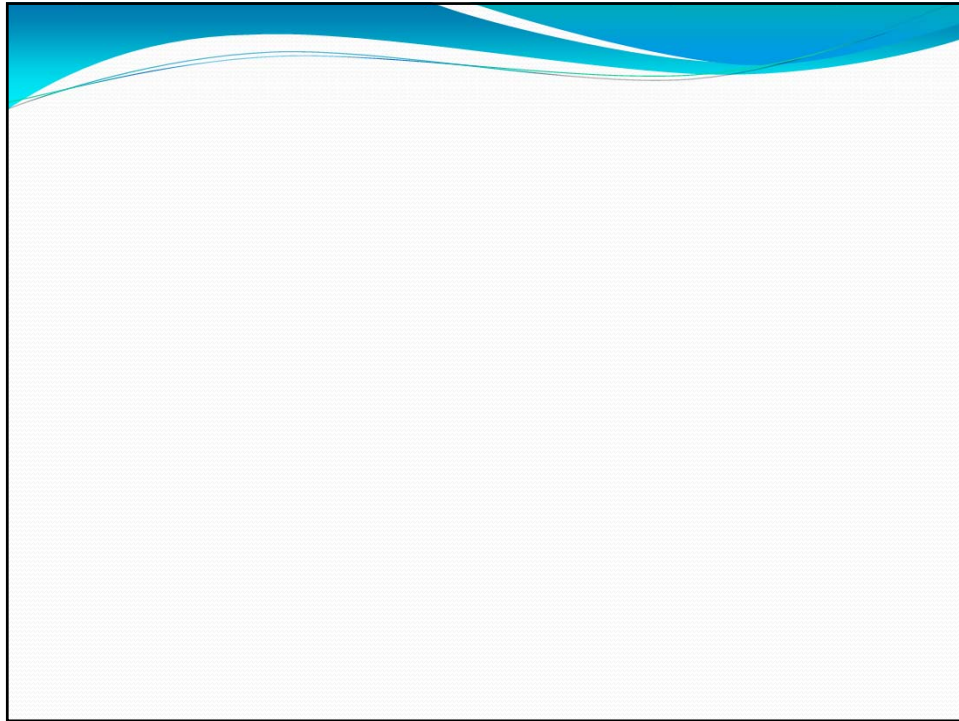
- Manual skills
- Repetition helpful to develop competence
- Helpful for practice prior to performing on patient
- Reduces patient discomfort with accepting learner involvement
- Feasible to develop a low fidelity model

Examples of Models I Use:

- Cervical assessment: dilatation and effacement
- Artificial rupture of membranes
- Determining position of the fetal head
- Scalp clip application
- Management of tight nuchal cord

Which Procedures Would You Like to Teach Using Simulation?

- <https://www.youtube.com/watch?v=yVnlP4WaTYE>
- https://msu.edu/~ziemkows/Clinical_Cookbook/Cyst/Cyst.html
- <https://www.youtube.com/watch?v=Jix6-EFitco>



Barriers and Challenges

What are some barriers and challenges to integration in your teaching practice?

What are some possible strategies to alleviating those barriers?

References/Resources

- Perineal Repair Simulation - Materials and Preparation. Vincent LaPorte, MD: <https://www.youtube.com/watch?v=yVnlP4WaTYE>
- Pfenninger and Fowler's Procedures for Primary Care E-Book: Expert Consult. John L. Pfenninger, Grant C. Fowler
- Minimal Excision Technique for the Removal of a Epidermoid (Sebaceous) cyst. Peter Ziemkowski, MD: https://msu.edu/~ziemkows/Clinical_Cookbook/Cyst/Cyst.html
- Using Simple Simulation to Teach Basic Obstetrical Skills - from Kitchen Cupboard to Sock Drawer. Heather Baxter. Teaching Competency In Family Medicine Maternity Care: A National Forum June 7, 2017. Toronto
- Vaginal Examination Simulation Using Citrus Fruit to Simulate Cervical Dilatation and Effacement. Kathleen L. Shea , Edward J. Rovera. DOI: 10.7759/cureus.314

References/Resources

- Low- versus high-fidelity simulations in teaching and assessing clinical skills. Fadi Munshi, Hani Lababidi and Sawsan Alyousef. Journal of Taibah University Medical Sciences (2015) 10(1), 12-15
- Teaching and Assessing Procedural Skills Using Simulation: Metrics and Methodology. Richard L. Lammers et al. Academic Emergency Medicine 2008; 15:1079-1087 ^a 2008
- A critical review of simulation-based medical education research: 2003-2009. William C McGaghie, S Barry Issenberg, Emil R Petrusa & Ross J Scalese. Medical Education 2010; 44: 50-63.
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