

# Without Face-to-Face Limits

Using Online Modules to Expand Specialty Focused Residency EBM Instruction for the ACGME Milestone Project Kathleen A. McGraw, MLS<sup>1</sup>, Sarah Towner Wright, MLS<sup>1</sup>, Karen Crowell, MLIS<sup>1</sup>, Susan M. Martinelli, MD<sup>2</sup>

### **ACGME BACKGROUND**

Accreditation Council for Graduate Medical Education (ACGME) Milestone Project

#### **ACGME Milestones:**

- Are competency-based developmental outcomes that can be demonstrated progressively by residents and fellows.
- Provide a rich descriptive framework for defining clinical competency.
- Guide curriculum development.
- Support better self-directed assessment and learning.
- Each specialty develops a detailed Milestone framework based on ACGME's 6 core competencies.
- Evidence Based Medicine (EBM) Milestones are included in the Practice-based Learning and Improvement competency.

# **UNC-CH MODULES DEVELOPED**

# EBM Review and Practice: Asking Questions and Acquiring Evidence

- --for Anesthesiology Residents
- --for Surgical Residents
- --for Pediatrics Residents
- --for Obstetrics & Gynecology Residents
- --for General Medical Residents

guides.lib.unc.edu/medicalresidents

#### **Author Affiliations**

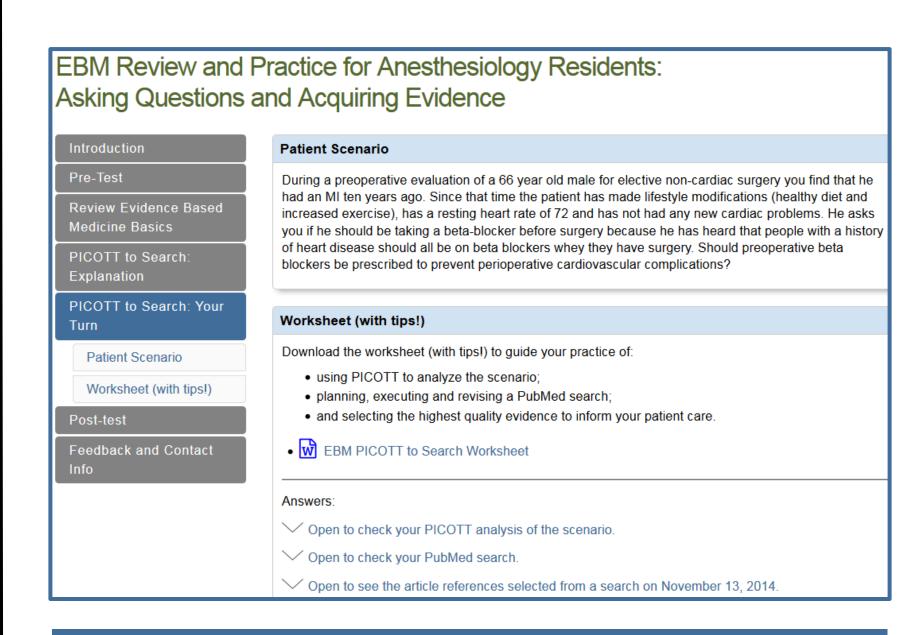
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This project is funded by a North Carolina 2014-2015 EZ Innovation Grant and a UNC Libraries Innovation Grant.

#### **OBJECTIVES**

- Extend current staff capacity for Milestone focused EBM instruction by creating online module templates that can be adapted to meet the specific needs of more residency programs.
- Test effectiveness, quality and usability of sample modules.



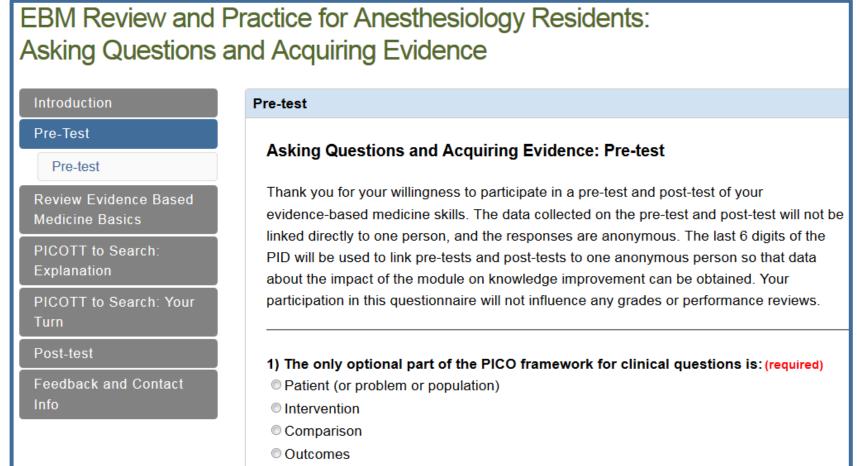
### **METHODS**

Online templates were developed in LibGuides v.2. Content was modeled on the 2014 face-to-face EBM instruction session for the Clinical Base Year anesthesiology residents.

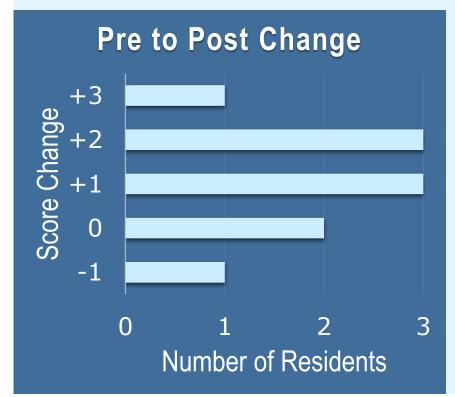
LibSurveys was used to integrate a pre-test and post-test with 5 knowledge and 2 self-perception questions.

The pre-test and post-test were completed by 10 residents in the anesthesiology session to provide baseline data to compare with future online-only learners.

These residents were asked to review the online version of the instruction and answer a brief survey about ease of use and preferred learning mode.



#### **BASELINE PRE to POST RESULTS**



7 of 10 clinical base year anesthesiology residents had improved scores on five questions designed to test knowledge change after face-to-face EBM instruction.

# SURVEY QUESTION: What is your comfort level in completing an EBM search in PubMed?

#	Pre-Test	Post-Test
2	Not very comfortable	Somewhat comfortable
5	Somewhat comfortable	Somewhat comfortable
2	Somewhat comfortable	Very comfortable
1	Very comfortable	Very comfortable

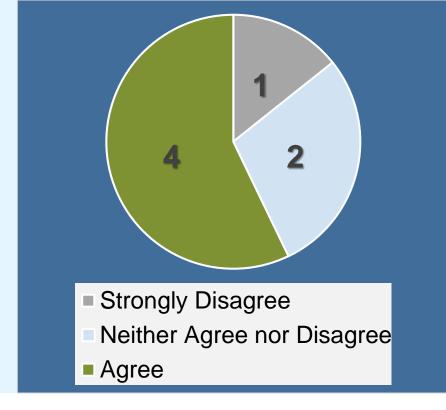
#### PRELIMINARY FEEDBACK

7 clinical base year anesthesiology residents completed the feedback survey.

All found the module easy to understand and clearly organized.

Chart shows the distribution of answers to the statement:

"I would prefer to learn and practice these skills in a group session with an instructor."



## **DISCUSSION & NEXT STEPS**

- The number of participants providing baseline information is small and resulting information must be used cautiously.
- Pre/post test data suggest that knowledge about searching and self-perceived comfort can be improved through these tailored instructions.
- Survey responses suggest that learning style preferences are varied.
- Face-to face instruction is still preferred by some. Welldesigned online materials provide an option for learners who prefer that format and for those unable to attend a class.
- Positive feedback on ease of use confirms that the template is adequate.
- Library school students will conduct a more structured evaluation of the modules.
- Promotion of the modules will be needed.