



SCHOOL OF MEDICINE
UNIVERSITY OF SOUTH CAROLINA

Transforming an Online Learning Module from UME* to CME

*Undergraduate Medical Education

Victor V. Rao, MBBS, DMRD, RDMS¹, Shaun Riffle¹, Mary Beth Poston, MD¹,
Duncan Howe, PhD¹, Lauren Thomas, MPH², Richard Hoppmann, MD¹

1 University of South Carolina School of Medicine Ultrasound Institute, Columbia,
SC USA; 2 USC School of Medicine-Palmetto Health Richland CME
Organization, Columbia, SC USA

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AAMC: CME4Docs

- New venture of the Association of American Medical Colleges (AAMC)
- Targeted to practicing physicians who want to:
 - Attain AMA PRA Category 1 Credit™
 - Maintain certification
 - Improve patient care
- USC School of Medicine invited to participate as a pilot site November 2010

Potential Problems with “Internet” CME

- Despite benefits,
 - Easy access to CME
 - Free
 - Self paced
- Internet CME is often designed
 - To increase knowledge – Not higher levels of learning
 - To provide information transfer, not an interactive experience

Where We Were

- 21 ultrasound learning modules are in place
- Designed primarily for undergraduate medical students (UME)
 - Also accessible on Society of Ultrasound in Medical Education (SUSME) website (SUSME.org)

The CME4Docs Opportunity

- Develop CME accredited ultrasound learning modules for physicians that were internet accessible
- Create modules that are interactive, competence and performance-based
- An existing UME learning module on screening for Abdominal Aorta Aneurysm (AAA) was selected for transformation to CME

Interdisciplinary Workgroup Established

- **Ultrasound and clinical expertise**
 - Ensure content appropriate for practicing physician
- **CME Professionals**
 - Ensure accreditation standards are met and assist with instructional design
- **Media technology staff**
 - Integrate and assemble text, illustrations, voice over, and interactive questions into multimedia software

Challenges

- Create common language within work group
- Determine evaluation process
 - Pass / Fail vs. Competency
- Determine educational / technical modifications to ensure CME standards were met

Transforming UME to CME

- Content of the transformed AAA ultrasound screening module peer reviewed
- Questions to assess competency and promote self-reflection developed
- Interactive quiz created
- Accreditation information communicated (disclosures, how to claim credit, etc)

Assessing Learner's Competency

- Twelve (12) interactive test questions:
 - Two - screening indications
 - Four - imaging technique
 - Six - understanding surrounding anatomy
- Proficiency defined as correctly answering 10 of 12 questions

Assessing the learner's competency

- If less than 10 questions are answered correctly
 - Module restarts and the learner can retake the quiz

- If 10 or more of the 12 questions are answered correctly
 - Learner awarded 0.5 *AMA PRA Category 1* credit

CME4Docs Learning Module URL

- http://media.med.sc.edu/ultrasound_institute/cme4docs/7C_ver2/player.html

What we accomplished

- Developed framework for a series of CME accredited learning modules

- **Next steps:**
 - Utilize the framework of this AAA ultrasound screening module to design additional internet CME learning modules
 - Learning modules that are interactive and promote development of higher levels of learning not just acquisition of knowledge