Leading, Teaching Evidence-Based Practice

March 12 – 15, 2013
Program on Teaching Evidence-Based Practice

Co-Directors

Jamie Fox
Sheri Keitz
Tom Owens
Connie Schardt
Larry Young
EBM Teaching at Duke and UM

- Over a decade: ~1,000 learners
  - Residents: IM, Peds, Psych, Surgery
  - Fellows
  - Medical Students

- 2003: First National EBM Workshop
  - Connie Schardt, Tom Owens, Grace Thrall, Sheri Keitz
  - >500 educators, program directors, chief residents nationwide
Two Fundamental Principles of EBM

- **Not all evidence is created equal**
  A Hierarchy of evidence helps us differentiate information more likely to be valid or true

- **Evidence alone is never enough**
  Decisions are informed and guided by patient values and preferences.
Course Objectives

Practice the evidence cycle

Assess patient’s dilemma

Ask well framed question

Acquire information

Appraise for validity

Apply based on values/ preferences
Evidence-based medicine cycle

Ask

Acquire

Appraise

Apply

Patient dilemma

Hierarchy of Evidence

Values & Preferences
Course Objectives

Core Curricular areas

Therapy (RCT)

Harm (Case-Control)

Prognosis (Cohort)

Diagnosis (prospective comparison to reference standard)

Overview / Meta-analysis
Course Objectives

- Tools for teachers
- Interactive teaching
- Self-directed learning
- Networking and interaction with educator colleagues
- Skills practice
Schedules
The only reason for time is so that everything doesn’t happen at once.

Albert Einstein
Schedules

- Large Group Sessions
- Small Group Sessions
- Self-Directed Study Period
- Social Events
- Tutors and Tutor Trainees
Large Group Goals: See Some

- Introduce Specific Core Curriculum
- Demonstrate Interactive Teaching Strategies
- Articulate Choices and Strategies that went into planning large group sessions
The great end of life is not knowledge, but action.

T.H. Huxley
Small Groups: the workshop core

- Tutorial Team facilitate

- Small Group Members take responsibility for the majority of the group teaching / learning

- Encourage planning of the week to cover ‘core curriculum’

  Therapy, Harm, Diagnosis, Prognosis, Systematic Review / Meta-analysis
Day #1: Theme– Therapy Day!

- Large Group Session: Focused on therapy
- Small Group Tutorial #1: 10:45 to 12:30
  - Tutor-trainee “See one in Therapy”
- Small Group Tutorial #2: 3:30 to 5:30
  - Participants “Do one (or more) in Therapy”
  - 1:30 to 3:30 pm concurrent session time with tutorial teams to plan for the afternoon
Connie:
Self-Directed Study Time 1:30 to 3:30

- Computer Lab
- Concurrent Sessions
- Consultations
- Tutor & Tutor-trainee individual meetings
Computer lab
Room 29 & 30

Librarians
Concurrent sessions

- Short classes (resources)
  - JAMAEvidence
  - PubMed
  - My NCBI
  - Mobile Apps
- Forums: discuss non-inferiority and network meta-analysis
- Consultations with faculty
Duke EBM Workshop

Duke University Division of General Internal Medicine

Teaching and Leading EBM:

A Workshop for Educators and Champions of Evidence-Based Medicine

March 12 - 15, 2013

Materials

2013 Workshop Materials

Logistics / Expectations / Schedules

- Participant planning guide
- Examples of presentations for small groups
- Logistical Information Paqua
- Workshop schedule
- Tips for Tutor Trainees

The EBM Framework

- Evidence Cycle

The Clinical Question

- Answering the Clinical Question
- The Clinical Question Table

The Search for Evidence

- Clinical Tools
  - Formulating the Search Strategy
<table>
<thead>
<tr>
<th>Question</th>
<th>Author</th>
<th>Title</th>
<th>Study Des...</th>
<th>Difficulty</th>
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<tbody>
<tr>
<td>Diagnosis</td>
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<td>Value of the ventilation/perfusion scan in acute pulmonary embolism</td>
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<td>Woolworth</td>
<td>An analysis of reports of depression and suicide in patients taking...</td>
<td>Case-cont..</td>
<td>Beginner /</td>
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</tbody>
</table>
Course Resources and Materials

- On the Website with workshop materials and DropBox
  - Tables of Papers to consider for Learning / Teaching
  - Example Teaching Cases intended as examples to show a spectrum of exercises
  - Materials: will be posted at the end of the week
Logistics...

- Copying
  - Use pdf and print!
  - Articles for small group: hand in to Jason before large group or during concurrent session
Logistics...

- Be Respectful of our learning environment
  - Pagers off
  - Cell phones
  - PLEASE.............

- Stuff: The team rooms are ours and teams will keep same room all week. However, we have been advised to take all items out at night...

- Rest Rooms

- Parking
Lots of people to help...

- Faculty Tutors & Tutor Trainees
- Librarians: Connie Schardt
- Support including technology
- Program administrator: Jason
Last but not least...
The devil has put a penalty on all things we enjoy in life. Either we suffer in health or we suffer in soul or we get fat

Albert Einstein
Food and Trails

- Continental breakfast / Lunch/ Break snacks
- Tuesday: Beer, Wine and light snacks at the Thomas Center
- Wednesday: Dinner at Tyler’s Taproom (Durham)
  - Buses will depart Thomas Center at 6:30 pm and Tyler’s at 8:30 pm
- Thursday: Dinner on your own