**SOCRU Training Course on Evidence Based Medicine (2017)**

**Dear Physicians, Nurses, and Students,**

The Shantou-Oxford Clinical Research Unit (SOCRU) is hosting the 2nd training course on **Evidence Based Medicine**. This course is exceptionally designed to introduce evidence-based practice of medicine in Chinese context, with an aim to promote a network of morally and professionally competent evidence-based practitioners in Shantou. As this course will be conducted entirely in English, it is required that participants have a good command of scientific and medical English. Those who are interested should submit their application (using the form attached) by email to 方未艾 [audreyfang@stu.edu.cn](mailto:audreyfang@stu.edu.cn) (and CC to [wbathein@stu.edu.cn](mailto:wbathein@stu.edu.cn) ). All the applicants are required to take an English language screening test (see below). Successful candidates will be notified by email with the detail course materials.

**Brief Introduction about the Course**

**AIM**

To cultivate morally and professionally competent evidence-based practitioners

**OBJECTIVES**

At the completion of the course, the participants will be able to -

* appreciate the importance of EBM in their practices
* practice evidence-based medicine with selected patients in their workplace
* self-train to further their evidence-based practicing skills

# ELIGIBILITY

Physicians, nurses, and medical students (year 5 and above) with

* good English, proven by IELTS (≥6.0), TOEFL (≥80), or by pre-course screening of English
* good medical and scientific English (self-assessment), and
* good experience in reading research articles in English (self-assessment).

**PREREQUISITE:** All applicants are required to take a screening test for English (writing 30-45 min, one-page short essay on a given topic).

**COURSE SYLLABUS & FORMAT**

* Syllabus: See below
* Format: Lectures, small group activities (EBM case studies), reading assignments

**OBLIGATIONS**

All participants are required to take two questionnaire surveys (pre-course and end-of-course) and to complete the course, activities, and assignments.

After taking the course, the participants are obliged to

* become members in the SOCRU-EBM network,
* be trained further to become future EBM instructors, and
* promote EBM in the SUMC-affiliated hospitals.

**NUMBER OF PARTICIPANTS: 30**

**COURSE INSTRUCTOR**

William Ba-Thein, Professor/Director, Shantou-Oxford Clinical Research Unit (SOCRU), SUMC

**TRAINING DATE/TIME/VENUE: Mar 21-Apr 18,** Tuesdays and Fridays/ 7:00-9:00 pm x 4.5 weeks/ SUMC

**APPLICATION DEADLINE:** **Mar 10, 2017**

## COURSE SYLLABUS

1. Introduction
   1. Evidence Based Medicine (EBM)
   2. Health Research in EBM
2. Evidence Based Practice (EBP)
   1. Asking for the right clinical question
      1. Background Q
      2. Foreground Q (PICO)
   2. Seeking the best current evidence
      1. Resources
         1. Resources for the Background Qs
         2. Resources for the Foreground Qs: 6S
         3. Resources for patient education
      2. Search strategies (for the Foreground Qs)
         1. Search engines/databases
         2. Search terms/filters
      3. Using Point-of-care (POC) search tools
   3. Critically appraising the evidence
      1. Understanding evidence in clinical studies
         1. Diagnostic studies
            1. Clinical prediction rules (CPRs)
            2. Pretest/Posttest Probability
            3. Characteristics of Dx tests: Sn, Sp, LR+/LR-, PPV/NPV, AUC-ROC, YI, DOR
            4. Selection criteria for Dx testing
         2. Therapeutic studies
            1. Evaluating RCTs (validity, clinical significance, clinical relevance): ITT, RD,NNT/NNH, HR
         3. Prognostic studies
            1. Prognosis reported in summary statistics: Case-fatality, 5-yr survival, median survival, HR
            2. Prognosis reported in graphics: Kaplan-Meier Curve, Waterfall plot, Skyline plot
      2. Understanding evidence in population studies (Prevention/Promotion): Estimating risks: AR, RR, OR, PAR
      3. Understanding secondary evidence in Systematic reviews/Meta-analyses (SR/MA): Forest plot, Funnel plot
      4. Evaluating the evidence: Quality of evidence, Levels of evidence, Grades of recommendations
   4. Delivering the evidence into practice
      1. Emerging EBM Concepts: Health Literacy, Risk Communication, Patient Values, Patient Education
      2. Clinical decision making: Informed/Shared/Evidence-informed decision making
      3. Medical professionalism: Professional Responsibilities, Professional Integrity, Medical Ethics
      4. Point-of-care decision making tools: Clinical decision support systems (CDSS)
   5. Evaluating evidence-based practice
      1. Clinical Practice Guidelines (CPGs)
      2. Audit (Feedback from mentors, peers, patients)
3. EBM case studies (diagnosis, treatment/prognosis, prevention/health promotion) \*Practice in small groups
4. Case presentation (by participants in groups)

**EBM Course Application Form**

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| * 1. Name (in pinyin): | * 1. Nick name (English) : |
| * 1. Age (yr): | * 1. Gender (M/F): |
| * 1. Job Title: | * 1. Position: |
| * 1. Affiliation(s): | * 1. Subspecialty: |
| * 1. Work experience (current) mo/yr: | * 1. Experience as clinician (mo/yr): |
| * 1. Academic degree(s): Bachelor Masters PhD | |
| * 1. Training in EBM/Statistics/Clinical Research (Course title/location/country): | |
| * 1. English - TEOFL/IELTS/TOEIC (Score/date): | |
| * 1. Medical English (good/fair/poor): | |
| * 1. Understanding clinical and epidemiology & health research terms (good/fair/poor): | |
| * 1. Reading experience of scientific articles in English (approximate no. of papers per year): | |
| * 1. Reading experience of clinical research articles (approximate no. of papers per year): | |
| * 1. After participating the EBM course, do you agree to – * become a member in the SUMC-EBM network? Y/N: * be trained further to become future EBM instructors? Y/N: * promote EBM in the SUMC-affiliated hospitals? Y/N: | |
| * 1. Your email Address: | |