

Effectiveness of EBP teaching in undergraduate, postgraduate and continuing education

Professor Khalid Khan

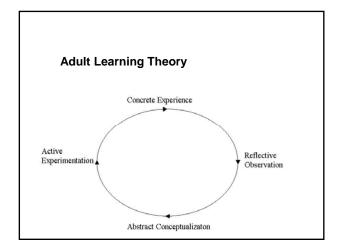
University of Birmingham



EBM Teaching for Undergradate Postgraduate & Continuing Medical Education

- Formal teaching
- Integration into other teaching
- Incorporation into practice

Effectiveness of EBHC Teaching Norman and Shannon. CMAJ 1998;158:177. Postgraduate vs undergraduate EBM teaching Systematic review of 10 studies (1966 - 1995) 4 studies relating to postgraduates 6 studies relating to undergraduates Mean Knowledge Gain Postgraduates Undergraduates



What are we doing?

- Research in EBM teaching
- Journal Club
- Evidence based ward round
- Teaching the teachers to teach EBM
- Masterclass
- E-learning in EBM
- EU Learning and Skills Council project
- One-day EBM Workshops (Deanery)
- EU EBM Unity Leonardo da Vinci

Postgraduate obstetrics and gynaecology trainees' views and understanding of evidence-based medicine

A systematic review of postgraduate teaching in evidence-based medicine and critical appraisal

Development and validation of a questionnaire to evaluate the effectiveness of evidence-based practice teaching

Critical appraisal workshops to promote evidence-based healthcare

A new approach to teaching and learning in journal club

Incorporating the views of obstetric clinicians in implementing evidence-supported labour and delivery suite ward rounds: a case study

Critical appraisal in clinical practice: sometimes irrelevant, occasionally invalid

Assessments in evidence-based medicine workshops: loose connection between perception of knowledge and its objective assessment

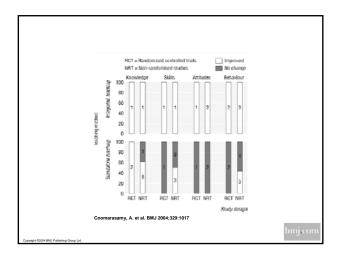
What is the cridence that postgraduate teaching in evidence based medicine changes anything? A systematic reviews

Antiferance North 1980a

What is the evidence that postgraduate teaching in evidence based medicine changes anything? A systematic review

Anti-Coomarasmy, Rialid 5 Klam

Abstract



Formal teaching: does knowledge really improve?

Correctness of Knowledge	Correct		Incorrect	
Level of Confidence	Sure	Unsure		Sure
Usability of Knowledge	Useable	Unusable		Useable
Level of Decision Making	Well informed	Uninformed (ignorance)		Misinformed

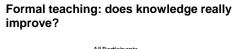
Formal teaching: does knowledge really improve?

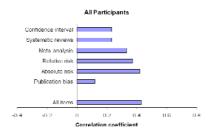
Subjective and objective assessment of knowledge

Subjective assessment: Participants were asked to circle the number that most closely fitting their understanding of an term on a 1-5 rating scale, where 1 referred to "Unaware of the term" and 5 referred to "Understand it and could define it"

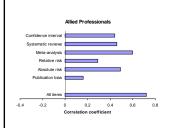
Objective assessment: For the terms subjectively assessed, participants were asked to circle "True", "False", or "Don't Know" about statements such as "Any difference in treatment outcomes between patients receiving the new and the old treatments can be attributed to the new treatment"

Taylor et al. Med Educ 2001;35(6):544-547.

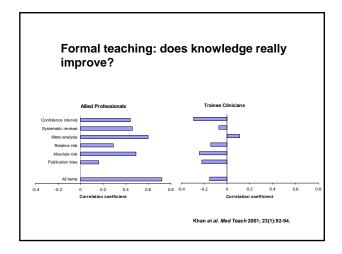




Formal teaching: does knowledge really improve?



Khan et al. Med Teach 2001; 23(1):92-94.

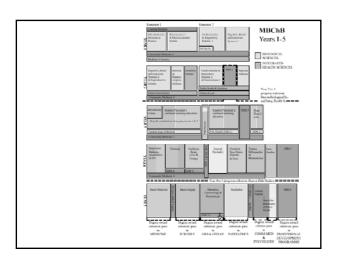


EBM Teaching for Undergraduate, Postgraduate & Continuing Medical Education

- Formal EBM teaching
 - ☐ Workshops, lectures, courses, journal club
- Integration into other teaching
 - $\hfill \Box$ CPD/CME/PGME, Specialty-based modules, journal club
- Incorporation into practice
 - □ Evidence-based ward round

EBM Teaching for Undergraduate, Postgraduate & Continuing Medical Education

- Formal EBM teaching
 - ☐ Improve knowledge & skills
- Integration of EBM into other teaching
 - ☐ Improve comprehension & adaptation / Change attitude
- Incorporation of EBM into practice
 - $\hfill\Box$ Improve application / Change behaviour (improve patient care)



EBM Teaching for Undergraduates How we do it in Birmingham

- Learning Outcomes
- Curriculum
 - $\,\Box\, Formal\ teaching$
 - □ Integration into other teaching
 - □ Incorporation into practice
- Electronic Curriculum

EBM Teaching for Undergraduates How we do it in Birmingham

- Learning Outcomes
- Curriculum
 - □ Formal teaching
 - $\hfill\square$ Integration into other teaching
 - □ Incorporation into practice
- Electronic Curriculum

