ISEHC 2013 研習會心得分享

高雄長庚刁茂盟醫師

名稱及地點

- International Joint Conference
- 2nd Conference of International Society for Evidence-based Health Care (ISEHC)
- ♦6th International Conference for EBHC Teachers and Developers

(Challenges for Education and Research)

Place: Taormina (Italy)

Time: 30th October - 2nd November 2013



We hope that you will have an enjoyable time and make the most of this wonderful "the Mediterranean Sea"



Nino Cartabellotta GIMBE Foundation (Italy) Conference Chair



Paul Glasziou Bond University (Australia) Chair of the Scientific Committee

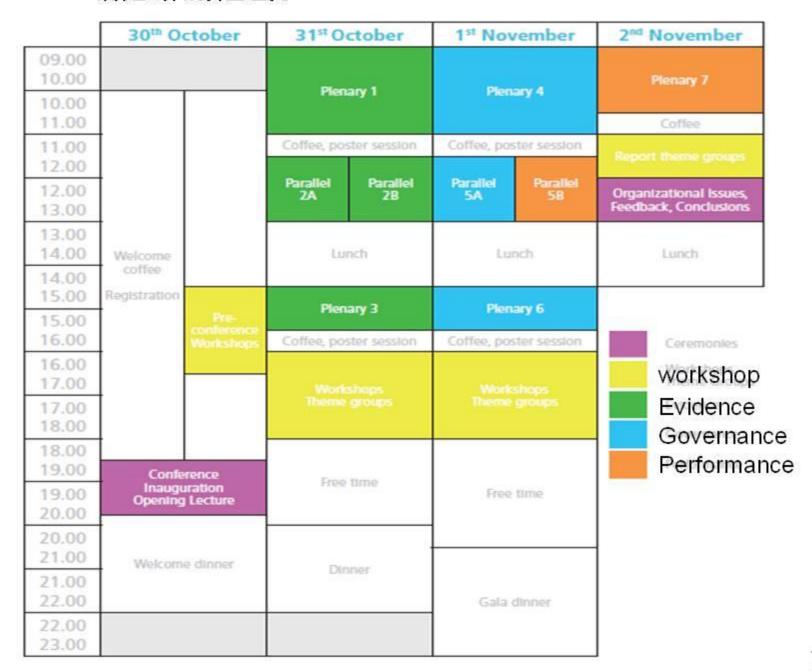
主要分三大主題

Evidence, Governance, Performance

證據,治理,績效

- 1. Evidence based approach to healthcare
- 2. Education
- research

Schedule 清楚的用顏色區分



30% OCTOBER

30TH OCTOBER

14.30 | Pre-conference Workshop (in parallel)

Rating Confidence in Effect Estimates and Grading Strength of Recommendations using GRADE

Gordon Guyatt. McMaster University (Canada)

Making sense of results: statistics for the terrified

Amanda Burls. City University of London (United Kingdom)

18.30 | Conference Inauguration

Welcome to Sicily

Nino Cartabellotta, GIMBE Foundation (Italy)

OPENING LECTURE. Evidence-based Health Care: a look into the future

Gordon Guyatt. McMaster University (Canada)



31ST OCTOBER

9.00 | Plenary Session 1 - Evidence

KEYNOTE. Evidence, Governance, Performance: challenges for education and research Nino Cartabellotta. GIMBE Foundation (Italy)

PLOT-IT: Public-Led Online Trials-Infrastructure and Technology for crowdsourcing health data Amy Price. University of Oxford (United Kingdom)

Recent medical graduate's opinion on EBHC in Stellenbosch University's medical curriculum

Anke Rohwer, Stellenbosch University (South Africa)

Merging health and science education: a qualitative study of Norwegian science teachers Lena Nordheim. Bergen University College (Norway)

Interventions to enhance the uptake of systematic reviews and meta-analyses
John Wallace, University of Oxford (United Kingdom)

Mapping from SORT to GRADE

Brian Alper, EBSCO (United States)

11.30 | Parallel Session 2A - Evidence

Provision of methodological knowledge for the quality assessment of primary studies Barbara Buchberger. University of Duisburg-Essen (Germany)

Evidence-based Medicine interactive eBook learning effect

Mao-meng Tiao. Chang Gung Memorial Hospital (Taiwan)

Using the technology acceptance model to explore intention and barriers toward using the Cochrane Library among health professionals in regional hospitals in Taiwan

Chen Chiehfeng, Taipei Medical University (Taiwan)

PINET - Personalized Integrated EBM Teaching for trainees in general practice: a randomized controlled trial

Marlous Kortekaas. University Medical Center Utrecht (Netherlands)

Advancing evidence-based residency training

Kurt Hegmann, University of Utah (United States)

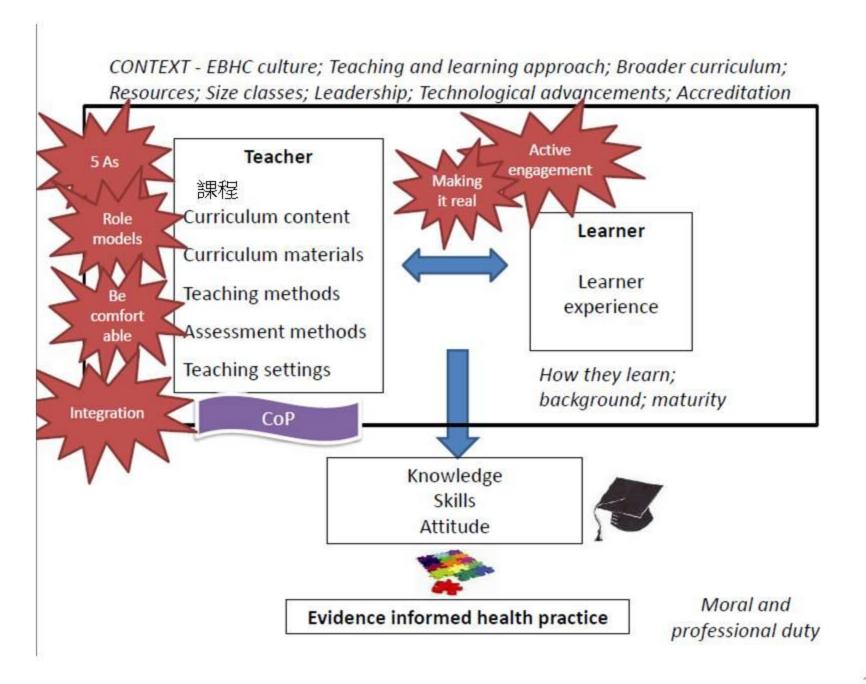
Contents

- 1. Learning EBHC at undergraduate level
- 2. Integration of EBM into undergraduate Medical Curriculum workshop
- 3. Real patient cases for teaching evidence based paediatrics
- 4. Advancing evidence based residency training
- 5. EBM e-learning (my report)

Theme group feedback

Learning EBHC at undergraduate level: what are the lessons learnt?

Multidisciplinary group involved in teaching EBP



Integration Of EBM Into Undergraduate Medical Curriculum Workshop

Nov 1 2013

Dr. Mazen Ferwana, MD, ABFM, JBFM, PhD

Consultant & trainer Family Medicine
Associate Prof. King Saud Bin Abdul Aziz University-HS
Co-Director, NGCEBHP
Chairman, COM EBM Committee

FOUR QUESTIONS

WHY?
WHAT?
HOW?
IMPACT?



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Why



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Managing Medical Information Explosion

At the individual level:

- Which resources
- Proper searching skills 2.
- 3. Appraisal, Interpretation and use
- 4. Point of care
- 5. Mobile medicine
- 6. Push & Pull



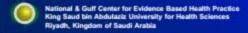
What

2. Clinical EBM Practice

Unless taught in clinical settings, it doesn't work

Real Time EBM

- √ Post-call round
- ✓ Morning rounds
- ✓ Out-patient clinic



How

Teaching Patterns

Green's literature review of approaches to teaching EBM revealed few important modalities to teachers of EBM:

- 1. Small-group, learner-centered format
- Immediate clinical relevance (Real time EBM)
- Role modeling of EBM

Green 1997



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Spiral Model

A spiral model is not simply the repetition of a topic taught.

It requires also the deepening of it, with each successive encounter building on the previous one





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Impact

Coomarasamy A, Knan K, 2004



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Classroom-based Vs. Clinical-based

- Both improved knowledge
- Clinically integrated improved attitude, behavior and skills

Coomarasamy A, Khan K, 2004

0

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Sicily Statement

This statement was conceived by the delegates of the second international conference of EBHC Teachers and Developers held in Sicily in Sep 2003 "Signposting the future of EBHC"

5 EBM steps

This five-step model forms the basis for both clinical practice and teaching EBP

"An immediate attraction of evidence-based medicine is that it integrates medical education with clinical practice"

REAL PATIENT CASES FOR TEACHING EVIDENCE-BASED PAEDIATRICS: LONG-TERM COURSE SUSTAINABILITY

V. Mihál¹, J. Potomková², D. Šubová², J. Zapletalová¹ ¹Department of Paediatrics, ²Medical Library



Palacky University, Olomouc Czech Republic

6th International Conference for EBHC Teachers and Developers Taormina (Italy), 30th October - 2nd November 2013

AIM

- Assess 5-year experience on using real patient cases to teach evidence based paediatrics
- Propose innovative parameters for sustainability of undergraduate case-based paediatric courses
 - Training of trainers
 - Development of undergraduate elective courses
 - Improvement of evidence-based practice curricula

Acad Med 2010;85(2):370-377, Acad Med 2013;88(7):1022-1028.

METHODS (1) SWOT Analysis (2009-2012)

Strength Points

- Acceptance of new paradigm (90% students)
- Increased motivation (70%)
- High perceived value of web materials (82%)
- Offer for mentoring (64%)
- Improved faculty-student communication
- Pro-active faculty-librarian cooperation
- More efficient use of information resources

Weak Points

- Epidemiological thinking gaps
- Problems asking clinical questions
- Insufficient search sklls
- Critical reading medical articles
- Time-consuming

METHODS (2) SWOT Analysis (2009-2012)

Opportunities

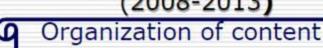
- New projects 2012-2014
 - Integration of interactive paediatric simulator in medical curriculum (SimJunior®)
 - Maintenance of education e-portal MEFANET
 - Virtual paediatric hospital development
 - Evidence-based information resources collection

Threats

- Lack of integration between basic science and clinical case-based courses
- Deficient strategy for staff development in fields of teaching EBM skills

RESULTS (1a) Web List of Cases - in preparation

Paediatric cases completed by 5th-year medical students (2008-2013)



- Diagnosis
- Year of patient admission
- Patient/Age
- Clinical question
- PICO format
- PubMed links to relevant journal articles for critical appraisal

RESULTS (1b): Examples Specialties, Diagnoses & Clinical Questions

Specialties

Gastroenterology - (21)

Endocrinology - (17)

Haemato-oncology - (29)

Surgery - (23)

Infectious diseases - (17)

Cardiology - (8)

Neurology - (15)

Neonatology - (3)

ENT - (6)

Respiratory diseases - (26)

Social paediatrics - (8)

Urology, nephrology - (29)

Diagnoses, clinical questions Inflammatory bowel diseases (IBD)

I

In children with IBD, does 5-aminosalicylic acid have a chemoprotective effect on colorectal carcinoma risk?

Can breastfeeding influence manifestation of IBD in children?

In children, could IBD be manifested with ocular extraintestinal disorders?

Is there a role for psychotherapy in adolescent IBD management?

Subtotal: 202 cases

RESULTS (2) Innovative Solutions

PICO Workshop

- Framing of clinical question
 - Balancing teacher control and student autonomy

New Undergraduate Elective EBM Course

- 4-days of F2F training
- E-learning

Training of Trainers

- Evidence based journal club
 - AAP Grand Rounds (preappraised evidence)



RESULTS (3) Information Resources & Search Skills

Background questions

- (E)-textbooks
 - Elsevier e-library
 - Thieme e-book library
 - MIHAL V, et al. 2012 . Selected Chapters in Paediatrics [in Czech]. Palacky Univ Press. On-line: http://mefanet.upol.cz
- UpToDate

Foreground questions

- MEDLINE/PubMed
- Nursing@Ovid
- Fulltext Journal Collections
 - Annual Reviews, Blackwell, BMJ, Karger, LWW, Proquest, Springer, Thieme
 - Czech publishers
- Interactive training sessions, e-learning

LIMITS

Stability and personal committment of training staff

Gaps in critical appraisal skills

Inter-professional collaboration

- Clinical teachers
- Information specialists
- Paediatric nurses

Student motivation and involvement

Adequate portfolio of information resources

CONCLUSIONS

Much of current research in teaching adults indicates that active participation is an important factor in increasing effectiveness of learning.

Case-based teaching of evidence based healthcare skills may contribute to better interactions

- Teacher-student,
- Teacher-teacher,
- Teacher-student-librarian.

Advancing Evidence-Based Residency Training

Kurt T. Hegmann, MD, MPH Professor and Center Director Dr. Paul S. Richards Endowed Chair in Occupational Safety and Health University of Utah



ACGME slides courtesy of Tom Nasca, MD ACGME

Background

- Outstanding training programs
- Weaknesses in development of Evidence-based Medicine skills
 - Traditional n-of-1 article approach
 - Lack of systematic incorporation in training
 - Systematic article critiquing skills
 - Methods for incorporating new innovations
 - Journal Club methods
- Highest quality study <u>NOT</u> sought
- Ergo: Residents didn't learn much EBM

http://www.acgme-

nas.org/assets/pdf/Nasca%20NAS%20June%202012%20Presentation%205lide%20Show.pdf

<u>AIMS</u>

New Residency Accreditation System: using "Milestones"

Apply to Learning EBM

Allan H. Goroll, MD; Carl Sirio, MD; F.
Daniel Duffy, MD; Richard F. LeBlond, MD;
Patrick Alguire, MD; Thomas A. Blackwell,
MD; William E. Rodak, PhD; and
Thomas Nasca, MD, for the Residency
Review Committee for Internal Medicine
Ann Intern Med. 2004;140:902-909.

ACADEMIA AND CLINIC

A New Model for Accreditation of Residency Programs in Internal Medicine

Allan H. Goroll, MD: Carl Sixo, MD: P. Daniel Duffy, MD: Richard P. Letlond, MD: Patrick Alguire, MD: Thomas A. Bladwell, MD: William E. Rodak, PhD: and Thomas Nuice, MD, for the Residency Review Committee for Internal Medicine

A renewed emphasis on clinical competence and its assessment has green out of public concerns about the safety, efficacy, and accountability of seath care in the United States. Medical schools and residency training progrems are paying increased attention to teaching and evaluating base clinical skills, streakated in part by these concerns and the responding enhables of according, certifying, and licensing bodies. This paper, from the Residency Review Committee for Infarmal Madicine of the Accordation Council for Graduate Medical Education, proposes a new outcome-based

accrediation strategy for residency training programs in internal medicine. It shifts residency program accrediation from external audit of educational process to continuous assessment and improvement of training competence.

Am Inter-Med 2006 140:902-903 wrumblus for author affiliation, we end of led. See milited article on pp 874-801 and obtorial convenent on pp 927-928.

Modical education is experiencing a back-to-busine movement, with increased emphasis on manery of core clinical competencies (1–3). Debates over curricular time, dinical strations, and conformed are being replaced by diseasining about clinical competence and its autonoment (4–8). The change is driven largely by evolving societal mandates for studies, safety, and accountability in health

CURRENT APPROACH TO ACCREDITATION IN INTERNAL MEDICINE AND ITS SHORTCOMINGS

The current approach relia on documentation of compliance with an estimate last of requirements in such as a facilitie, faculty, teaching program, and methods of evaluation. There are nearly 900 specific requirements listed (15), and educational processor account for the wast

The "Envelope of Expectations" Professionalism:

Accepts responsibility and follows through on tasks

PGY 2 Medical PGY 1 PGY 3 School

Expert

Proficient

Competent

Advanced Beginner

Resident completes many assigned tasks on time but needs extensive guidance on local practice and/or policy for patient care.

Graduate Medical Education (ACGME)

Resident effectively manages

multiple competing tasks, and

effortlessly manages complex

guidance and support in difficult

or unfamiliar circumstances.

circumstances. Is clearly identified by peers and subordinates as source of

0	O _{Milestor}	e Framework for Laparo	scopic Surgery	0 0			
Level 1 (Entry)		Level 3	Level 4 (Expectation for a graduating resident)	Level 5 (Post-residency or More Advanced than Expected of a Graduating Resident)			
Steps are omitted, partially completed, or done out of sequence and/or done with too much or too little force, speed, depth, distance.	A step is repeated or do of sequence. A step is o with too much or too li force, speed, depth, dist	done sequence and done with appropriate force, speed,	Steps are completed in sequence and done with appropriate force, speed, depth, and distance for routine and complicated cases.	Technical performance for complicated cases, including improvised movements, is fluid and error free.			
Comments:							

RCT Scoring Metrics

- 1. Randomization (0, 0.5, 1.0 pts.)
- 2. Allocation concealed (0, 0.5, 1.0)
- 3. Baseline comparability of groups
- 4. Blinding of patients
- Blinding of provider
- Blinding of assessor
- Avoid co-interventions
- 8. Compliance Rate
- 9. Dropout Rate
- 10. Timing of Assessments
- 11. Intention to Treat Analysis

Low Quality:	0 - 3.5 points
Moderate Quality:	4.0-7.5 points
High Quality:	8.0 + points

EBM Methods

- Teach systematic review techniques
- Teach quality/scoring criteria

for RCTs

- Hierarchy of evidence
- Leads to evaluative tool for residents in Journal Club and classes.

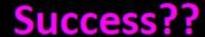


Study Summary Evidence Tables: Discography

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EBM evaluations in "Milestones"

- Level 1. Obtain 1 article relevant to patient.
- Level 2. Obtain more important articles
 - Preliminary abilities to score articles, critique
- Level 3. Obtain all relevant articles.
 - Moderate abilities to score articles, critique.
- Level 4. All articles. Score articles. Effectively critique them. Sort high/low quality. Synthesize the topic.
- Level 5. Develop high-quality guidelines.



RESULTS

- Residents able to develop EBM skills
 - Rapidly develop skill to rate RCTs
 - Group rating for Journal Club facilitates scoring skills/convergence
 - Can rate within ±1.5/11 pts.
 - Improves ability to critique articles
 - Improved weaknesses identification
 - Sequential, methodological approach
 - Quantification of weaknesses
 (e.g., <20% dropout rate)</p>

Study Summary Evidence Tables: Discography

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LIMITS

- Testing needed to determine systematic review skills (not yet developed)
- Need further work to develop EBM synthesis skills
- Need more time to ascertain resident ability to develop guidelines
- Time to achieve

BOTTOM LINE

- Benchmarking EBM skills works for resident training
- Specificity (training & eval.) is important

Evidence-based-medicine Interactive eBook learning effect

Mao-meng Tiao
Chang Gung Memorial Hospital
(Taiwan)

Background

- Students learn the "evidence-based medicine" (EBM) often feel boring
- not catching an important connotation of the study
- as a starting point to design clinical practical problems

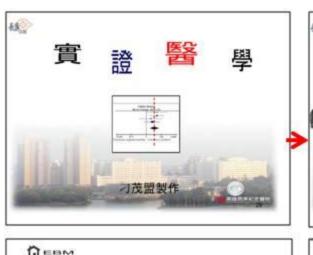
Aims

- Students feel interesting in learning the EBM
- catching the important connotation of the case apprach

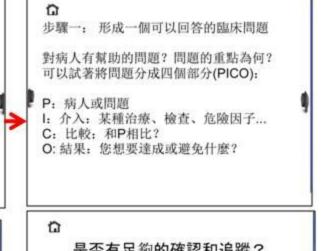
Methods

- In the outpatient period
- introduced in "e-book" interactive with the skills of EBM to the students
- to solve the question from the real patient
- practice five steps of EBM
 - to search and analysis of focus
 - determine the level of evidence they found the article
- e-book was designed via adobe flash professional CS6

- included an introduction to the
 - basic concepts of EBM
 - EBM databases
 - database literature search skills
 - critical appraisal methods
 - clinical application
 - effectiveness evaluation.
- assessed by questionnaires, a five-point Likert item, both before and after the class.
- searched answers for the questions were discussed based on the video-recorded.













Q: 探討statin是否可以減少蜘蛛膜下腔出血後的預後使用statin 100人中發生7人慢發性缺血傷害,對照組 100人中發生17人慢發性缺血傷害,對照組 100人中發生17人慢發性缺血傷害;慢發性缺血傷害的發生率(incidence of delayed ischemic deficits)

相對風險(RR)=

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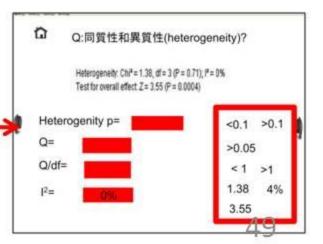
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© Q: 探討statin是否可以減少蜘蛛膜下腔出血後的預後使用statin 100人中發生7人慢發性缺血傷害,對照組 100人中發生17人慢發性缺血傷害,對照組 100人中發生17人慢發性缺血傷害;慢發性缺血傷害的發生率(incidence of delayed ischemic deficits)

相對風險(RR)=

0.07 0.1 0.4 0.17 9

絕對風險降低率(ARR)=



Results

- total of 30 students completed the questionnaire with the video recording.
- average satisfaction score of the students was 92.1 points
 - felt e-books interactive mode is interesting and could improve the learning effect
- database literature search skills scored from 3.0 to 4.3
- critical appraisal from 3.1 to 4.2.

Limits

- Time limit
- Sometimes can not have a good answerable question immediately
 - Patient has no further question
 - No definite diagnosis at that time
 - Background question (ex. constipation has more allergy rhinitis?)
- No good evidence level journal found

Bottom line

- e-books interactive mode integrated into the clinical case
- improve the skills of the students' interest in learning
- it is clinical useful

Language Barrier



3rd International Society for Evidence-Based Health Care Conference 2014

Knowledge Translation and Decision Making for Better Health: Challenge of Glocalization



WELCOME TO TAIWAN

Taipei, Taiwan November 6-9, 2014

Important dates

Abstract submission from 15 Feb, 2014 Very early registration by 31 March, 2014 early registration by 30 June, 2014

www.isehc2014.tw

Host: Taipei Medical University
Taiwan Evidence-Based Medicine Association (TEBMA)