Teaching EBHC in Italy

Cartabellotta A, Annicchiarico M, Berti F, Cellini M, Potena A, Rolli M, Rossi G, on behalf of GIMBE®

1. The National context2. Other organizations3. GIMBE

Copyright © - GIMBE®

1. The National context

- 2. Other organizations
- 3. GIMBE

What role for EBP in the core curriculum of medical education

- Formally included in the undergraduate six years course.
- Mostly are "vertical" courses of statistics/epidemiology not integrated with clinical disciplines.
- It is possible to find occasional EBP courses in some postgraduate courses.
- Most EBP courses are planned for CME.

What role for Clinical Governance in health care?

- The National Health Service is financed by the taxpayer
- There are several references to EBHC in the last two National Health Plans
- In Italy there are 21 regional applications (federalism).
- Several Regional Health Plans have introduced Clinical Governance





Evidence-based Medicine



Evidence-based Health Care



Clinical Governance

Clinical Governance

1

Evidence-based Health Care

1

Evidence-based Medicine

1. The National context2. Other organizations3. GIMBE

2. Other Organizations

Cochrane Italian Centre

- Master in "EBM and research methodology" (in collaboration with University of Modena-Reggio Emilia and CeVEAS)
- Master in "Methodology of Systematic Reviews"
- Several workshops for systematic reviewers

2. Other Organizations

- EBP has become a fashionable subject in CME courses.
- Unfortunately resulting in several untargeted, uncoordinated and fragmented teaching scenarios.
- Only few courses have a high quality of teaching and standards of evaluation.
- Most of the teachers are statisticians or epidemiologists (non clinical).

- 1. The National context
- 2. Other organizations
- 3.GIMBE

3. GIMBE®

- 3.1. What? Who?
- 3.2. Teaching framework

3.1. GIMBE®: What? Who?

- A non-profit organization, established in 1996 for spreading EBM in Italy, through teaching and publications
- Three full time professionals: scientific director, organising director, computer scientist.
- A multiprofessional faculty of teachers (physicians, nurses, physiotherapists, pharmacists, midwives, etc.) following a three step accreditation process (tutor → junior teacher → senior teacher)

3.1. GIMBE®: What? Who?

- The main centre "Centro Studi GIMBE" is located in the centre of Bologna and is equipped with a multimedia teaching room.
- "Centro Studi GIMBE" hosts the "EBM International Library", a rich collection of methodological literature (books, monographies, articles, multimedia) structured in three main areas:
 - Evidence-based Practice
 - Evidence-based Health Care & Clinical Governance
 - Methodology of Clinical Research

3. GIMBE®

- 3.1. What, who
- 3.2. Teaching framework

3.2. GIMBE®: Teaching framework

A. Workshop and advanced courses

- How many: up to 24 partecipants
- Where: multimedia teaching room

B. Interactive clinical workshops

- How many: up to 100 partecipants
- Where: conference room, with televoting system

3.2. GIMBE®: Teaching framework

- A. Workshop and advanced courses
- B. Interactive clinical workshops

A. Workshops and advanced courses

- A1. Evidence-based Practice
- A2. Evidence-based Health Care & Clinical Governance
- A3. Methodology of Clinical Research

A. Workshops and advanced courses

- A1. Evidence-based Practice
- A2. Evidence-based Health Care & Clinical Governance
- A3. Methodology of Clinical Research

General aim: introduce the "EBP core curriculum"

- Awareness of information need
- Ability to formulate clinical questions
- Efficient retrieval of evidence:
 - Appraised
 - Not appraised → critical appraisal of main primary clinical studies (diagnosis, therapy) and secondary (systematic reviews)
- Application to the individual patient

BMC Medical Education



Debate

Open Access

Sicily statement on evidence-based practice

Martin Dawes^{*1}, William Summerskill², Paul Glasziou³, Antonino Cartabellotta⁴, Janet Martin⁵, Kevork Hopayian⁶, Franz Porzsolt⁷, Amanda Burls⁸ and James Osborne⁹

Target

- Specialised medical staff
- Nurses
- Midwives
- Pharmacists
- Physiotherapists
- Librarians

Critical issues 1

- Basic individual skills (EBP pre-core-curriculum):
 - clinical epidemiology, English, computer science
- Lack of infrastructure:
 - information technology, full text medical journals
- Differing perceived usefulness of EBP, due to available evidence:
 - health professions (cardiologist vs endocrinologist)
 - medical speciality (phisycian vs nurse)
 - information needs (therapy vs diagnosis)

Critical issues 2

- Growing complexity of critical appraisal (*Users' guides* necessary, but not sufficient)
- Pre-digested sources (*Clinical Evidence*, *Cochrane Library*) are partial, incomplete and research-oriented (only therapy questions).
- Difficulty in identifying misleading claims and conflict of interests: *Evidence-B(i)ased Medicine*
- Low applicability of evidence, expecially in general practice

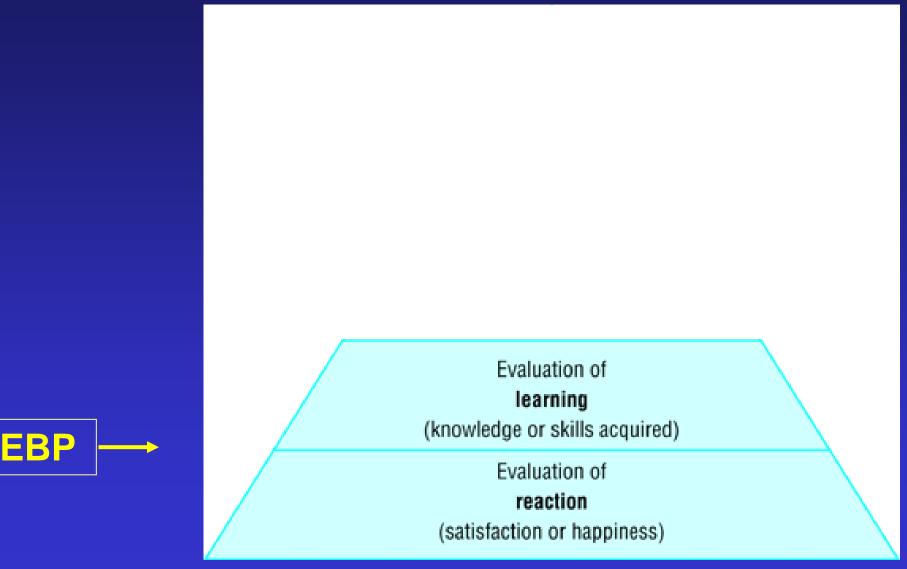
Users' guide to detecting misleading claims in clinical research reports

Victor M Montori, Roman Jaeschke, Holger J Schünemann, Mohit Bhandari, Jan L Brozek, P J Devereaux, Gordon H Guyatt

Plenty of advice is available to help readers identify studies with weak methods, but would you be able to identify misleading claims in a report of a well conducted study?

Evaluation of efficacy

Kirkpatrick's hierarchy of levels of evaluation



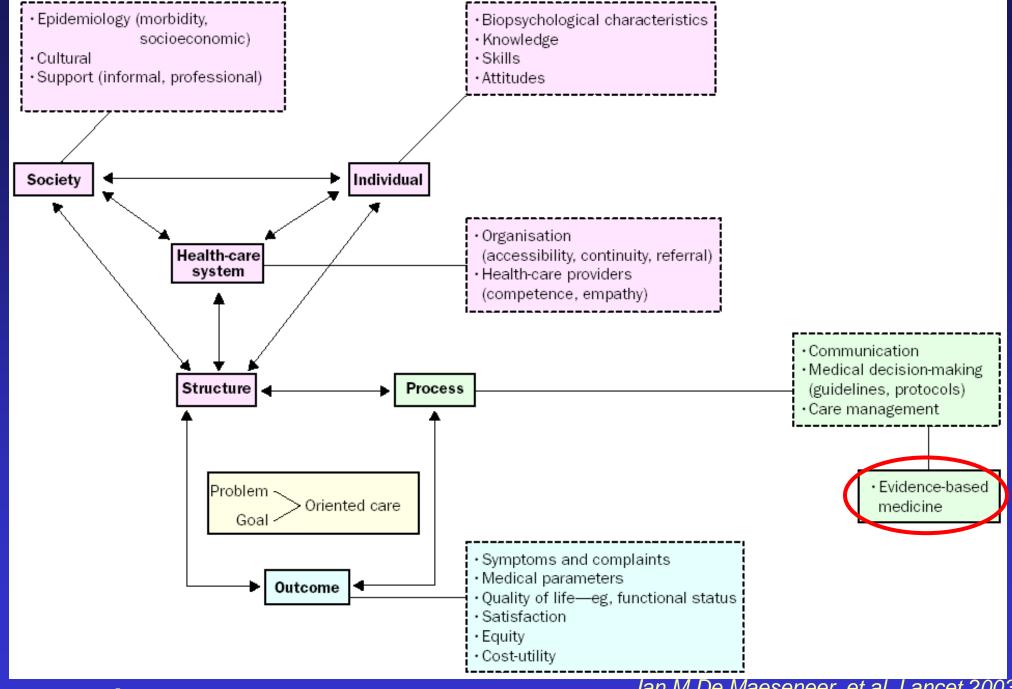
Evaluation of efficacy

- Measurable only with:
 - feedback questionnaires
 - evaluation of knowledge and learning acquired
 - Berlin Questionnaire (BMJ 2002;325:1338-41)
 - Fresno test (BMJ 2003;326:319-21)
 - Other unpublished tests

Hatala R, Guyatt G.

Evaluating the teaching of evidence-based medicine

JAMA 2002;288:1110-2



A2. Evidence-based Health Care & Clinical Governance

Target

- Professionals involved in the planning, organisation and evaluation of health services:
 - healthcare management
 - responsible for quality control, accreditation, professional training, CME
 - directors of departments, districts, wards
 - nursing managers

Evidence-based Health Care

Clinical Governance tools & skills

- Evidence-based Practice
- Information & Data management
- Practice Guidelines & Care Pathways
- Technology Assessment
- Clinical Audit
- Clinical Risk Management
- CME, professional training and accreditation.
- Staff management
- Consumer involvment

Cartabellotta A, et al. Sole 24 Ore Sanità & Management Novembre 2002

Grol R, Grimshaw J

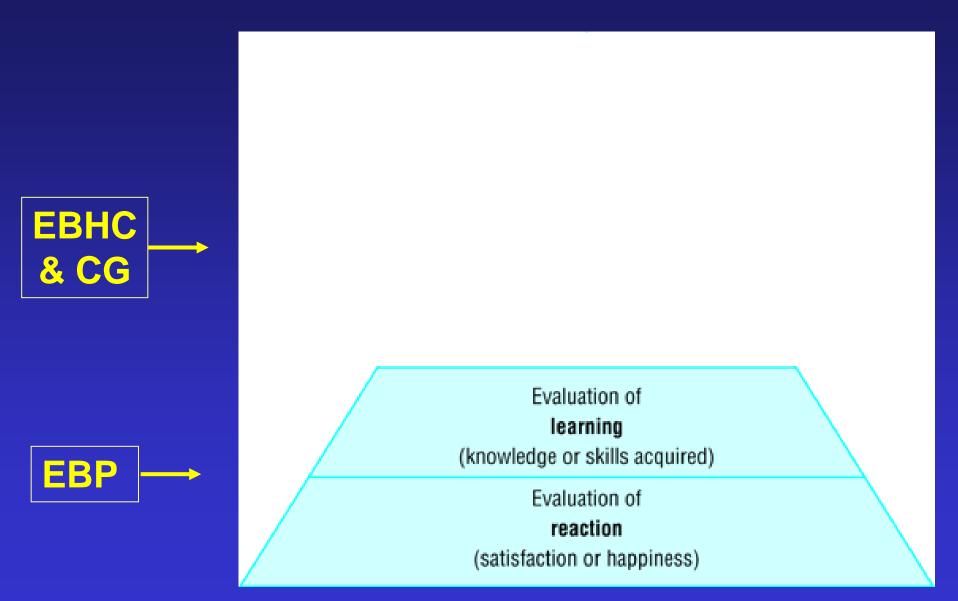
From best evidence to best practice: effective implementation of change in patients' care

Lancet 2003, 11 October

Changing professional behaviours

- Local consensus processes beetween multidisciplinary groups of professionals, for sharing the clinical standards (guidelines, clinical pathways).
- Retrospective audits to identify the gap between professional behaviours and defined standards
- Use of reminders
- Clinical interactive workshops
- Prospective audits to verify changes in professional behaviours

Kirkpatrick's hierarchy of levels of evaluation

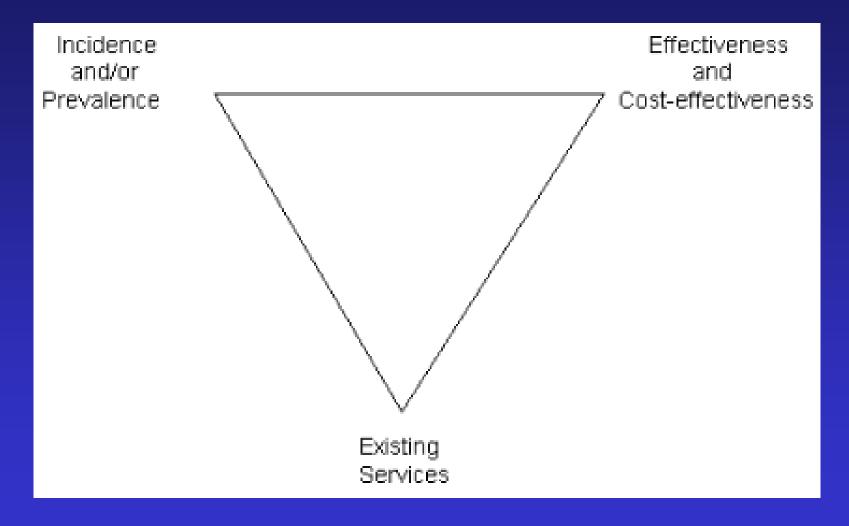


A2. Evidence-based Health Care & Clinical Governance

Critical issues

- Limited role of evidence in managerial and policy decisions (expecially if they increase the appropriateness reducing volume of interventions).
- Coordination and support infrastructureare lacking
- Difficulty to integrate, in health organisations the learning programs together with quality improvement projects
- The "epidemiological approach to health care needs assessment" which is lacking

The triangulation of health care needs assessment



General aim

 Acquiring the knowledge and skills to plan, conduct and publish good research evidence.

Target

 Professionals involved in planning, conducting, publications and evaluation of clinical research (ethical committees, clinical researchers, others)

1. Anatomy and Physiology of Clinical Research

- Defining the aims: etiology, prognosis, diagnostic accuracy, efficacy of health interventions
- Choosing the best research design:
 - Observational studies: descriptive and analytic studies
 - Experimental studies: clinical trials

2. Pathology of Clinical Research

- Low quality: grey zones, redundance, disaggregation
- Commissioning bias (neglected diseases)
- Publication bias
- Conflicts of interest
- Scientific frauds

3. Prevention and Treatment of Clinical Research

- Metodology, ethics of research and ethics of publications
- The role of systematic reviews
- Ethical commitees
- Registration of RCTs
- Peer-review
- Reporting statement: CONSORT II, STARD, QUOROM, MOOSE, ASSERT
- Pre-print publications systems
- Institutions for prevention of frauds
- Disclosure on conflict of interest

Evaluation of efficacy

To design a research project (including issues related to conduction, analysis and reporting) to answer to question of:

- Etiology
- Prognosis
- Diagnostic
- Therapeutics

3.2. GIMBE®: Teaching framework

A. Workshop and advanced courses

B. Interactive clinical workshops

B. Interactive Clinical Workshop

Objective

• Encourage the EBP through discussion of relevant clinical problems, for which there are variable levels of evidence to support the clinical decisions.

B. Interactive Clinical Workshop

- The physician presents the scenario with relevant clinical questions.
- The learners answer through a televoting system: the results are showed and analysed.
- The EBP expert present the validity of best available evidence: RCTs, systematic reviews, guidelines.
- The discussants (GPs, specialists, decison makers), judge the clinical relevance of such evidence focusing on grey zones.
- The learner are involved in general discussion.

Many thanks