# Le revisioni sistematiche come strumento per le decisioni di politica sanitaria

XIII Riunione Annuale
Network Cochrane Italiano
e Workshop satelliti
Napoli, 3-4 Novembre 2008

Andy Oxman

Norwegian Knowledge Centre for the Health Services

# The role of systematic reviews in health policy decisions

- 1. Who cares?
- 2. REACH What can Italy (and Norway) learn from East Africa?
- 3. WHO Recent developments and their implications for Italy

"There is nothing a politician likes so little as to be well informed, it makes decision making so complex and difficult."

John Maynard Keynes

# Who would prefer uninformed decisions about health care?

- You can't make an informed choice without information.
- If a decision is going to be well informed rather than misinformed, you need good information!

# What is the role of evidence in policy and practice?

- The role of evidence is to inform policy and practice.
- Evidence is essential, but not sufficient.
- Judgements are needed, including judgements about confidence (the quality of the evidence), what to expect in a specific setting, equity and trade-offs.



#### Desirable effects

- ·health benefits
- ·less burden
- ·savings

#### Undesirable effects

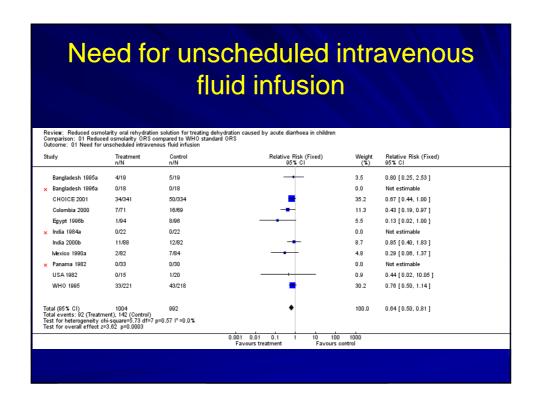
- ·harms
- ·more burden
- ·costs

Professional good intentions and plausible theories are insufficient for selecting policies and practices for protecting, promoting and restoring health.

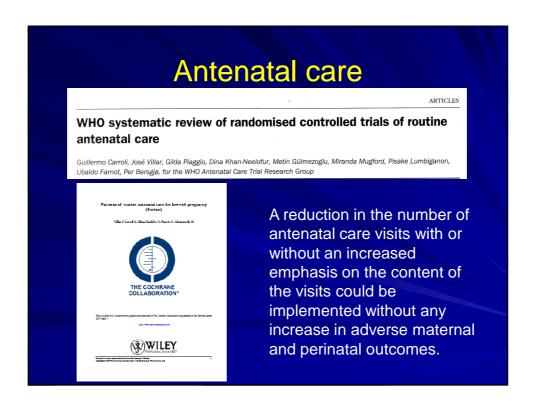
**lain Chalmers** 

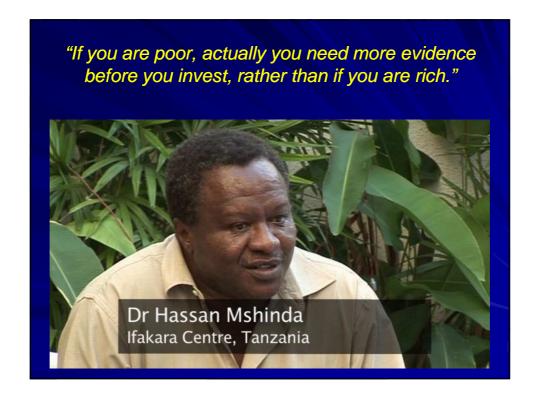
Some examples of why informed judgements are important from maternal and child health in low and middle income countries









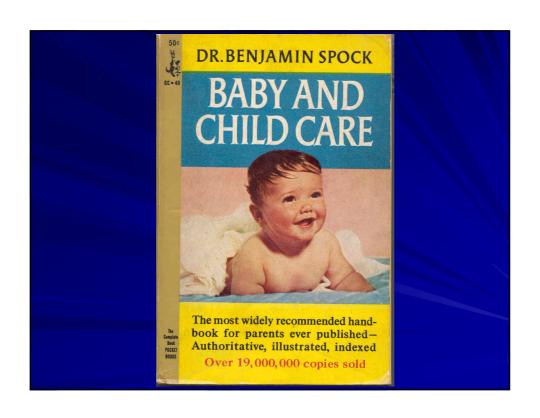


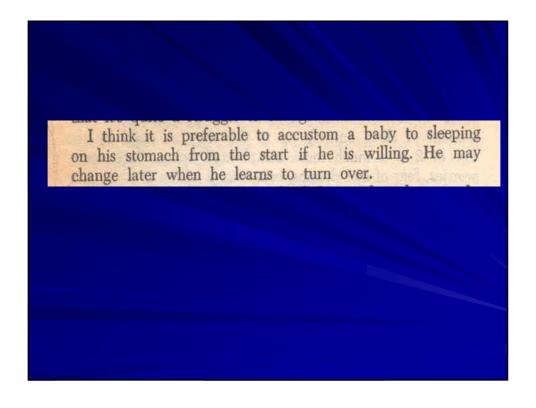
## REACH Policy Initiative East Africa

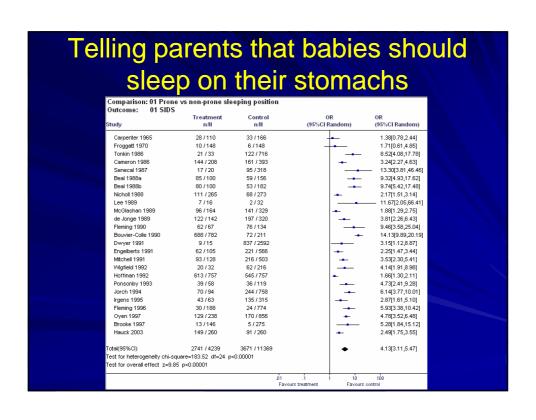
An initiative to create a multi-national unit that will act as a bridge between research and policy in the East African Community (comprising Kenya, Tanzania, and Uganda)



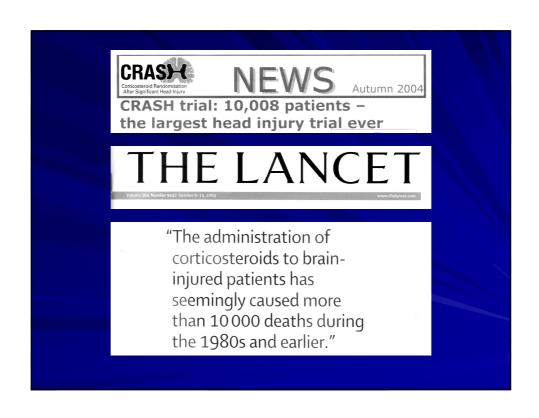




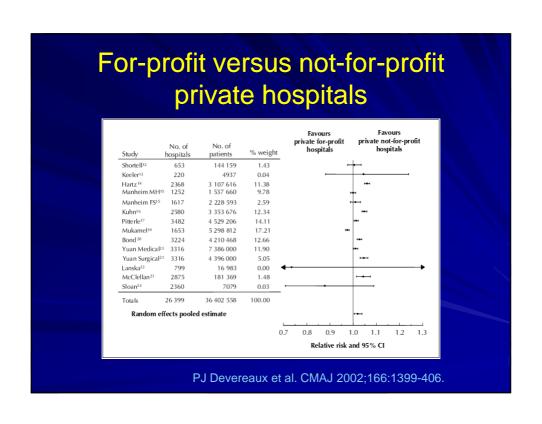


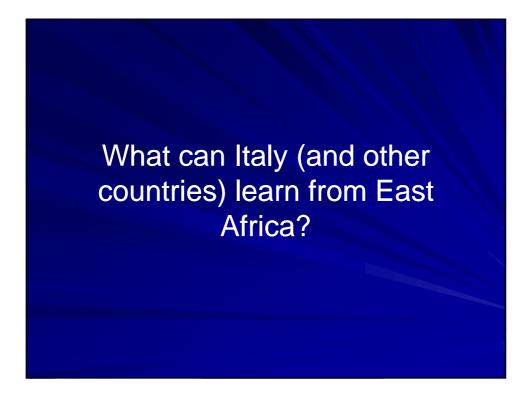


Oestrogen + progestin for prevention after WHI and HERS				
	1992		2002	
CHD	Suspected benefit	⊕000	Confirmed harm	$\oplus \oplus \oplus \oplus$
Hip fracture	Suspected benefit	⊕000	Confirmed benefit	$\oplus\oplus\oplus\oplus$
Colorectal cancer	Suspected benefit	⊕000	Confirmed benefit	$\oplus\oplus\oplus\oplus$
Breast cancer	Suspected harm	⊕000	Confirmed harm	$\oplus \oplus \oplus \oplus$
Stroke	Suspected harm	⊕000	Confirmed harm	$\oplus \oplus \oplus \oplus$
Thrombosis	Suspected harm	⊕000	Confirmed harm	$\oplus \oplus \oplus \oplus$
Gall bladder disease	Suspected harm	⊕000	Confirmed harm	$\oplus \oplus \oplus \oplus$











# What's good about what Italy is doing now and what can be improved to ensure better health care through well-informed decision making?

#### Including:

- Structures to support evidence-informed decision making
- International collaboration
- Building capacity among researchers to support evidence-informed decision making
- Undertaking research that addresses important uncertainties
- Building capacity among decision makers to access and use evidence
- "Quick and clean enough" approaches
- Management of tensions between researchers and policymakers
- Management of conflicts of interest
- Involving consumers and other stakeholders and building a constituency among the media and the public

58th World Health Assembly resolution



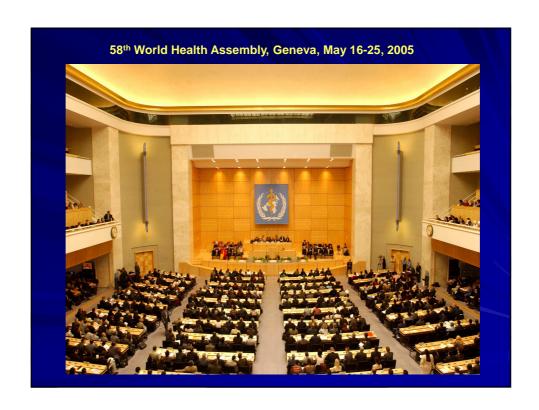
#### THE MEXICO STATEMENT ON HEALTH RESEARCH

Knowledge for better health: strengthening health systems

FROM THE MINISTERIAL SUMMIT ON HEALTH RESEARCH MEXICO CITY, NOVEMBER 16-20, 2004

We the Ministers of Health\* and other participants from 58 countries

http://www.who.int/rpc/summit/agenda/en/mexico\_statement\_on\_health\_research.pdf



# The 58<sup>TH</sup> meeting of the World Health Assembly passed the following resolution:

ACKNOWLEDGES the Mexico Statement on Health Research resulting from the Ministerial Summit on Health Research (Mexico City, 16-20 November 2004)

#### **REQUESTS** the Director-General:

to assist in the development of more effective mechanisms to bridge the divide between ways in which knowledge is generated and ways in which it is used, including the transformation of health-research findings into policy and practice

A58/22 http://www.who.int/gb/ebwha/pdf\_files/WHA58/A58\_22-en.pdf

Based on a review of WHO's current practices, what other organisations around the world are doing, the relevant methodological literature, and wide consultations, the ACHR recommends to the Director-General that:

- WHO should aim to exemplify best practice in the use of research evidence to inform decisions about health . . .
- It is recommended that a committee should be established with the mandate and resources to develop and follow through on the implementation plan, including the establishment of standards and processes for ensuring adherence to those standards.

### WHO Advisory Committee on Health Research (ACHR) Subcommittee on the Use of Research Evidence (SURE)

Andy Haines, Ana Langer, Andy Oxman,
Judith Whitworth, Tikki Pang, Ulysses Panisset,
Atle Fretheim, Holger Schünemann

#### Use of evidence in WHO recommendations



Andrew D Oxman, John N Lavis, Atle Fretheim

#### Summary

Background WHO regulations, dating back to 1951, emphasise the role of expert opinion in the development of recommendations. However, the organisation's guidelines, approved in 2003, emphasise the use of systematic reviews for evidence of effects, processes that allow for the explicit incorporation of other types of information (including values), and evidence-informed dissemination and implementation strategies. We examined the use of evidence, particularly evidence of effects, in recommendations developed by WHO departments.

Methods We interviewed department directors (or their delegates) at WHO headquarters in Geneva, Switzerland, and reviewed a sample of the recommendation-containing reports that were discussed in the interviews (as well as related background documentation). Two individuals independently analysed the interviews and reviewed key features of the reports and background documentation.

Findings Systematic reviews and concise summaries of findings are rarely used for developing recommendations. Instead, processes usually rely heavily on experts in a particular specialty, rather than representatives of those who will have to live with the recommendations or on experts in particular methodological areas.

Interpretation Progress in the development, adaptation, dissemination, and implementation of recommendations for member states will need leadership, the resources necessary for WHO to undertake these processes in a transparent and defensible way, and close attention to the current and emerging research literature related to these processes.

Published Online May 9, 2007 DOI:10.1016/S0140-6736(07)60675-8

See Comment page 1842

Nonwegian Knowledge Centre for the Health Services, PO Box 7004, \$5 Class plass, N-0330 Oslo, Norway (A D Oxman MD, A Fretheim MD): and Department of Clinical Epidemiology and Biostatistic and Department of Political Science, and Member of the Centre for Health Economics and Policy Analysis, McMasteu (I) NLavis MD)

Correspondence to: Dr Andy Oxman oxman@online.no

#### WHO signals strong commitment to evidence



WHO's constitution states that "the extension to all peoples of the benefits of medical, psychological and related knowledge is essential to the fullest attainment of health". Well-implemented high-quality guidelines for member states can realise this aim through the equitable sharing of best practice in a locally-appropriate form. However, despite a decision by WHO in 2000 to make guidelines evidence-based, and the publication of internal guidance in 2003 to standardise procedures, the quality of the 200 recommendations produced by WHO each year has been inconsistent. On May 9, The Lancet published Andy Oxman and colleagues' investigation into how WHO recommendations are formulated, which identified shortcomings in both process and products. Thus, WHO's response, to create a Guidelines Review

recommendations see DOI:10.1016/S0140-6736(07)60675-8 and DOI:10.1016/S0140-6736(07)60676-X

For use of evidence in WHO

6736(07)60676-X For World Report on Margaret Chan see Lancet 2006; 368: The Guidelines Review Committee will be a crucial mechanism to advise staff on guideline development. It will seek to strengthen the capacity of all WHO staff to produce good guidelines. In other words, the Committee

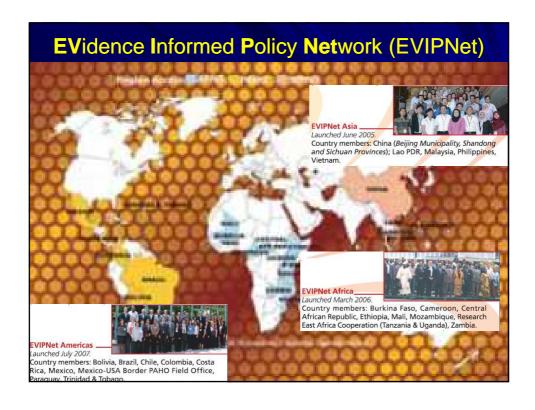
Committee, is swift, unequivocal, and welcome.

is not only about quality assurance, it is about triggering an institution-wide change in culture and behaviour. The changes will, in time, extend to WHO's most vulnerable outposts—its regional offices. And they will feed into the creation of a WHO-wide research strategy to be presented to the World Health Assembly in 2009.

The creation of a Guidelines Review Committee is good news for WHO, and provides an example of transparency to the UN, and of accountability to its stakeholders. The World Health Assembly, convening in Geneva this week can take pride in these actions, but must recognise that the synthesis, implementation, and evaluation of science-based guidelines will require considerable resources if the commitment is to be sustained as a core activity. Establishing the Guidelines Review Committee confirms new Director-General Margaret Chan's commitment to "decisions based on evidence" and he own vision to make WHO "absolutely authoritative ir our guidance...to use health as a lever for making this world a better place for all humanity". ■ The Lancet

## **EVidence Informed Policy Network** (EVIPNet) Working with countries to:

- Enhance links between producers & users of evidence
- Acquire, access, adapt evidence relevant to needs of decision makers
- Provide decision makers with a "rapid response" and "one stop shopping" for high quality evidence
- Build capacity to access & apply evidence
- Commission systematic reviews and new research in gap areas
- Develop partnerships with relevant organizations



### **Implications**

- Change takes time
- WHO member state
- GOBSAT versus EBHC
- Capacity
- International collaboration

Well-informed decisions and actions versus uninformed or misinformed ones

### An historical perspective

- 1948 Streptomycin treatment of pulmonary tuberculosis: a Medical Research Council investigation. BMJ 1948; ii:769-82.
  - WHO established
- 1972 Cochrane AL. Effectiveness and Efficiency. Random Reflections on Health Services
- 1992 The term EBM was coined
- 1993 Cochrane Collaboration launched
- 2005 WHA resolution on evidence-based healthrelated policies
- 2008 This meeting

Professional good intentions and plausible theories are insufficient for selecting policies and practices for protecting, promoting and restoring health.

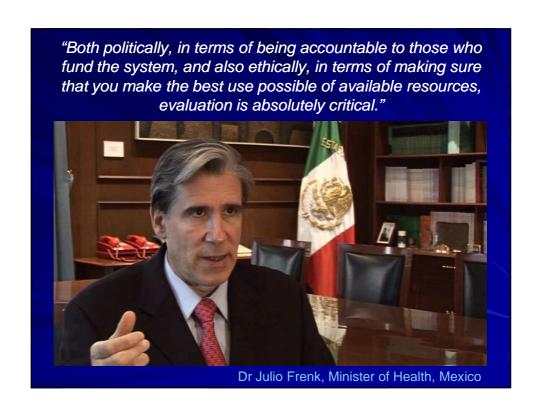
**lain Chalmers** 

Humility and uncertainty are preconditions for unbiased assessments of the effects of the prescriptions and proscriptions of policy makers and practitioners for other people.

**lain Chalmers** 

We will serve the public more responsibly and ethically when research designed to reduce the likelihood that we will be misled by bias and the play of chance has become an expected element of professional and policy making practice, not an optional add-on.

**lain Chalmers** 





### Final message

- Both policymakers and researchers must continue struggling to help ensure that judgments about health policies are well informed by research evidence
- The alternative is to acquiesce to poorly informed health policies

**Informing Judgment:** 

Case Studies of Health Policy and Research in Six Countries. Milbank Memorial Fund, September 2001 http://www.milbank.org/2001cochrane/010903cochrane.html

