



# **Evidence Synthesis and Quality Assessment in Guideline Development in the East Mediterranean Region**

## **Balancing Technical Rigor and Policy Impact**



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Eastern Mediterranean Region

Institutionalizing Evidence-Informed Policy-Making for Delivery for Impact:  
NEDtP Webinar Series 2025



"قُلْ هَاتُوا بُرْهَانَكُمْ إِن كُنْتُمْ صَادِقِينَ"

“Say, Bring your proof, if you are truthful”

Al-Baqara: 111

A close-up photograph of a person's hand holding a small, rectangular wooden block. The block is light-colored wood with a visible grain and has the words "THANK YOU" engraved in a bold, black, sans-serif font. The background is a blurred blue surface.

**THANK YOU**

# Outline

- Introduction (*EBM, SRs, CPGs – Definitions and Evolution*)
- Technical Aspects of Evidence Synthesis
- Quality Assessment in Guideline Development
- The Bigger Picture: Political, Policy, and International Aspects
  - Moving from Evidence to Implementation
- Case Studies and Best Practices in EMR
- Key Takeaways and Future Directions
- Q & A and Discussion (30 – 40 min)

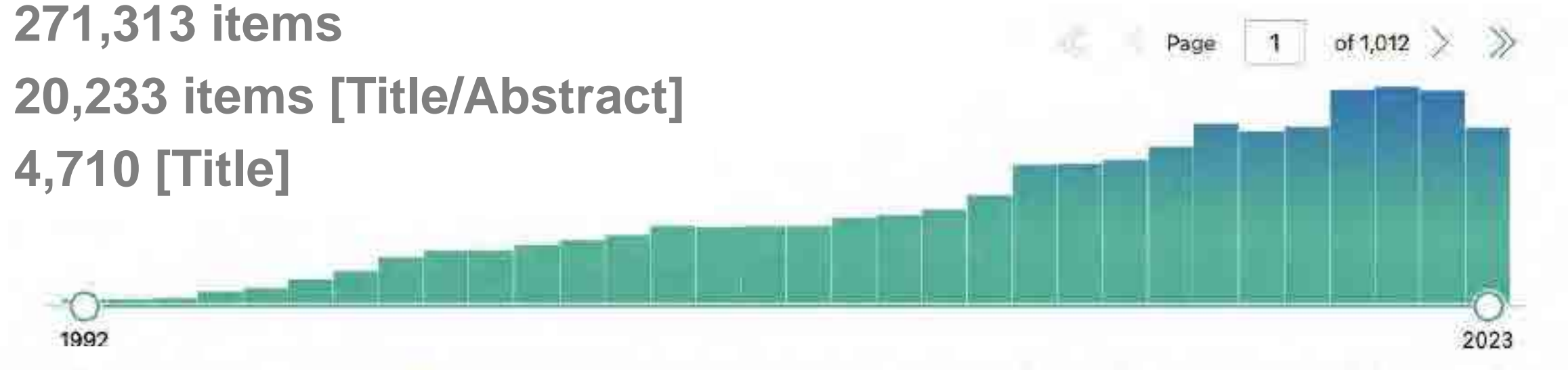
# Disclosure of No Conflict of Interest

- We have no personal or financial interests to declare.
- We have no financial support for the current presentation.



# “Evidence-Based Medicine” in PubMed (on 5/11/2023)

- 271,313 items
- 20,233 items [Title/Abstract]
- 4,710 [Title]



**Evidence-based medicine. A new approach to teaching the practice of medicine.**

**Evidence-Based Medicine Working Group.**

JAMA. 1992 Nov 4;268(17):2420-5. No abstract available.

PMID: 1404801



**Evidence-based medicine. A new approach to teaching the practice of medicine.**

**Evidence-Based Medicine Working Group.**

JAMA. 1992 Nov 4;268(17):2420-5. No abstract available.

**Gordon Guyatt**, MD, MSc; John Cairns, MD; David Churchill, MD, MSc; Deborah Cook, MD, MSc; Brian Haynes, MD, MSc, PhD; Jack Hirsh, MD; Jan Irvine, MD, MSc; Mark Levine, MD, MSc; Mitchell Levine, MD, MSc; Jim Nishikawa, MD; **David Sackett**, MD, MSc; Patrick Brill-Edwards, MD; Hertzfel Gerstein, MD, MSc; Jim Gibson, MD; Roman Jaeschke, MD, MSc; Anthony Kerigan, MD, MSc; Alan Neville, MD; Akbar Panju, MD; Allan Detsky, MD, PhD; Murray Enkin, MD; Pamela Frid, MD; Martha Gerrity, MD; Andreas Laupacis, MD, MSc; Valerie Lawrence, MD; Joel Menard, MD; Virginia Moyer, MD; Cynthia Mulrow, MD; Paul Links, MD, MSc; Andrew Oxman MD, MSc; Jack Sinclair, MD; Peter Tugwell, MD, MSc

# 3 Decades

**EVIDENCE  
BASED  
PRACTICE**



# The Use of Evidence in Healthcare ...

- Large and unjustified variation in clinical practice (*Wennberg et al, 2016*)
- Significant levels of inappropriate care (*Brook, 1994*)
- Evidence of overmedicalization and treatment-induced ill health (*Illich, 1974*)



# The EBM Approach / Movement ...

- Can be regarded as a **disruptive technology** — a new way of doing things that sought to overturn previous practices.
- Was **radical**, in that it challenged standard practice or policy and, more fundamentally, the assumed authority of the clinical professional and the centralised policy-making apparatus.
- Had the potential to **democratise** decision-making by making research evidence available for everyone.





# Estimates of Annual US HC Waste, by Category *\$ in Billions*

## Annual Cost to US Health Care System in 2011

	Low	Midpoint	High
Failures of care delivery	102	128	154
Failures of care coordination	25	35	45
Overtreatment	158	192	225
Administrative complexity	107	248	389
Pricing failures	34	131	178
Fraud and abuse	82	177	272
<b>Total</b>	<b>558</b>	<b>910</b>	<b>1263</b>
<b>% of total Spending</b>	<b>21</b>	<b>34</b>	<b>47</b>

REVIEW ARTICLE

# Evidence-based practice improves patient outcomes and healthcare system return on investment: Findings from a scoping review

Linda Connor PhD, RN, CPN, EBP-C<sup>1</sup>  | Jennifer Dean DNP, RN, APRN, EBP-C, AGACNP-BC<sup>1</sup> | Molly McNett PhD, RN, CNRN, FNCS, FAAN<sup>1</sup> | Donna M. Tydings DNP, RN, CNS-BC<sup>2</sup> | Amanda Shrout DNP, RN, CCNS, CEN<sup>3</sup> | Penelope F. Gorsuch DNP, RN, NEA-BC, FACHE<sup>4,5</sup> | Ashley Hole MSN, RN, FNP-BC, CPON<sup>6</sup> | Laura Moore DNP, RN, APRN, FNP-C<sup>7</sup> | Roy Brown MLIS, AHIP<sup>8</sup> | Bernadette Mazurek Melnyk PhD, APRN-CNP, EBP-C, FAANP, FNAP, FAAN<sup>1</sup>  | Lynn Gallagher-Ford PhD, RN, EBP-C, NE-BC, DPFNAP, FAAN<sup>1</sup>

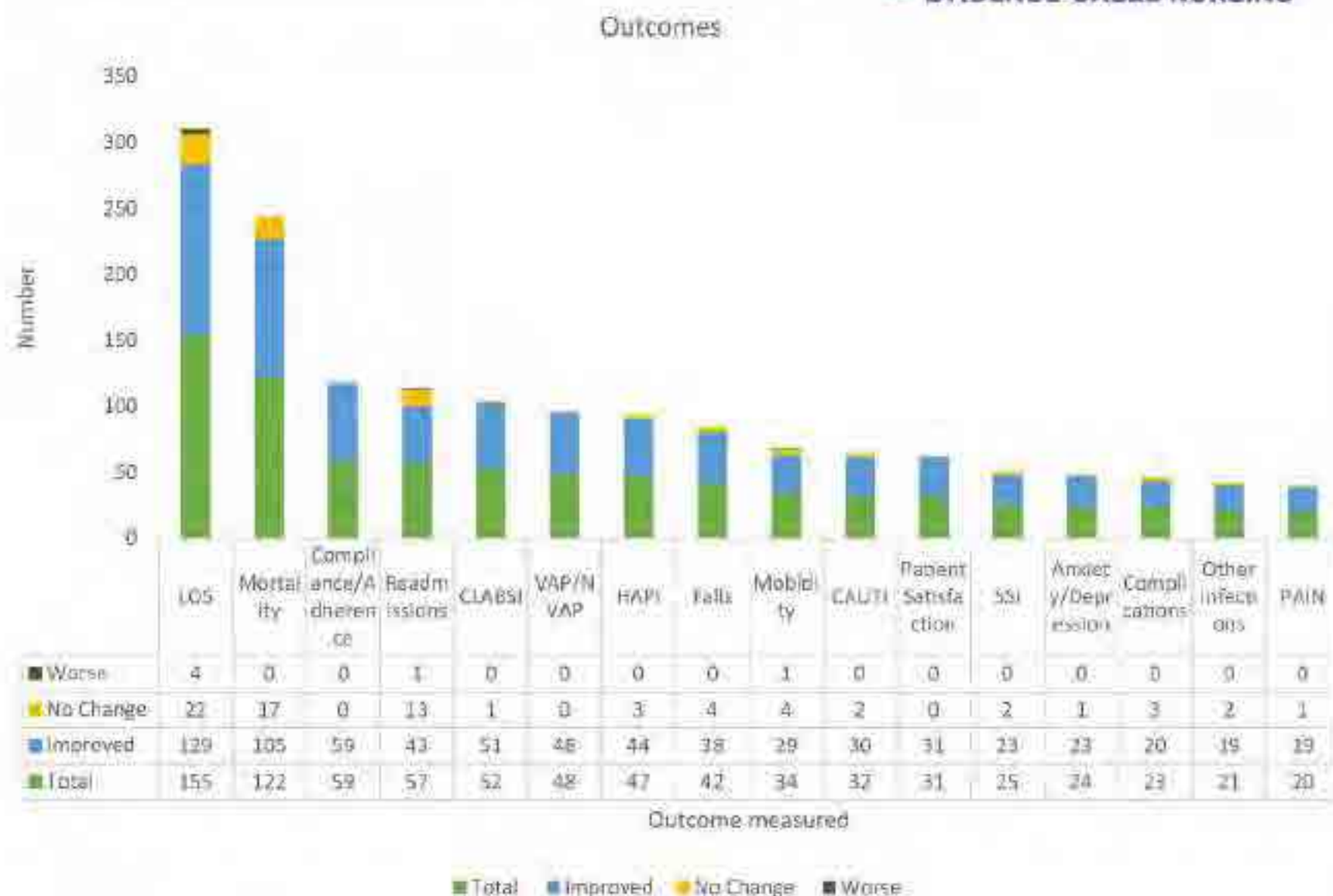


FIGURE 3 Impact of EBPs on patient outcomes



World Health  
Organization

Eastern Region

This Issue

Views **8,708** Citations **8** Altmetric **253**

Editorial

October 7, 2019

## Toward Evidence-Based Policy Making to Reduce Wasteful Health Care Spending

Karen E. Joynt Maddox, MD, MPH<sup>1,2,3</sup>; Mark B. McClellan, MD, PhD<sup>4,5</sup>

» Author Affiliations

JAMA. 2019;322(15):1460-1462. doi:10.1001/jama.2019.13978

This Issue

Views **145,153** Citations **448** Altmetric **2959**

Special Communication

October 7, 2019

## Waste in the US Health Care System Estimated Costs and Potential for Savings

William H. Shrank, MD, MSH<sup>1</sup>; Teresa L. Rogstad, MPH<sup>1</sup>; Natasha Parekh, MD, MS<sup>2</sup>

» Author Affiliations

JAMA. 2019;322(15):1501-1509. doi:10.1001/jama.2019.13978

- The authors estimate **total annual waste to be \$760 billion to \$935 billion**—smaller as a share of total spending than previous estimates. Yet this clearly shows a gulf between the current efficiency of the US healthcare system and what may be possible.
- However, the authors go further than previous studies to assess evidence on how much of this theoretical gulf could potentially be closed, and they conclude that **approximately a quarter of that total (\$190 billion to \$286 billion)** could be eliminated **if evidence-based strategies** to reduce waste were scaled nationally.

# EBM: Is It Something New?

- ✓ The term
- ✓ Formalization of the process
- ✓ The systems and technology

**x THE ACTIVITIES**



## Some milestones in the history of EBM



**James Lind**  
publishes review &  
clinical trial in  
*Treatise on Scurvy*



**Bradford-Hill**  
publishes *Principles of Medical  
Statistics* &  
MRC trial of streptomycin



900 AD

1780

1840

1937/48

1967

1970's



**Al-Rhazi**

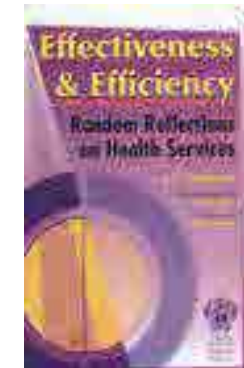
For I once saved one group  
by it, while I intentionally  
neglected another group.  
By doing that, I wished to  
reach a conclusion .



**Pierre Louis**  
Develops his "numerical  
method" and changes  
blood letting practice in  
France



**Alvan Feinstein**  
publishes his book  
*Clinical Judgement*



# Systematic Reviews

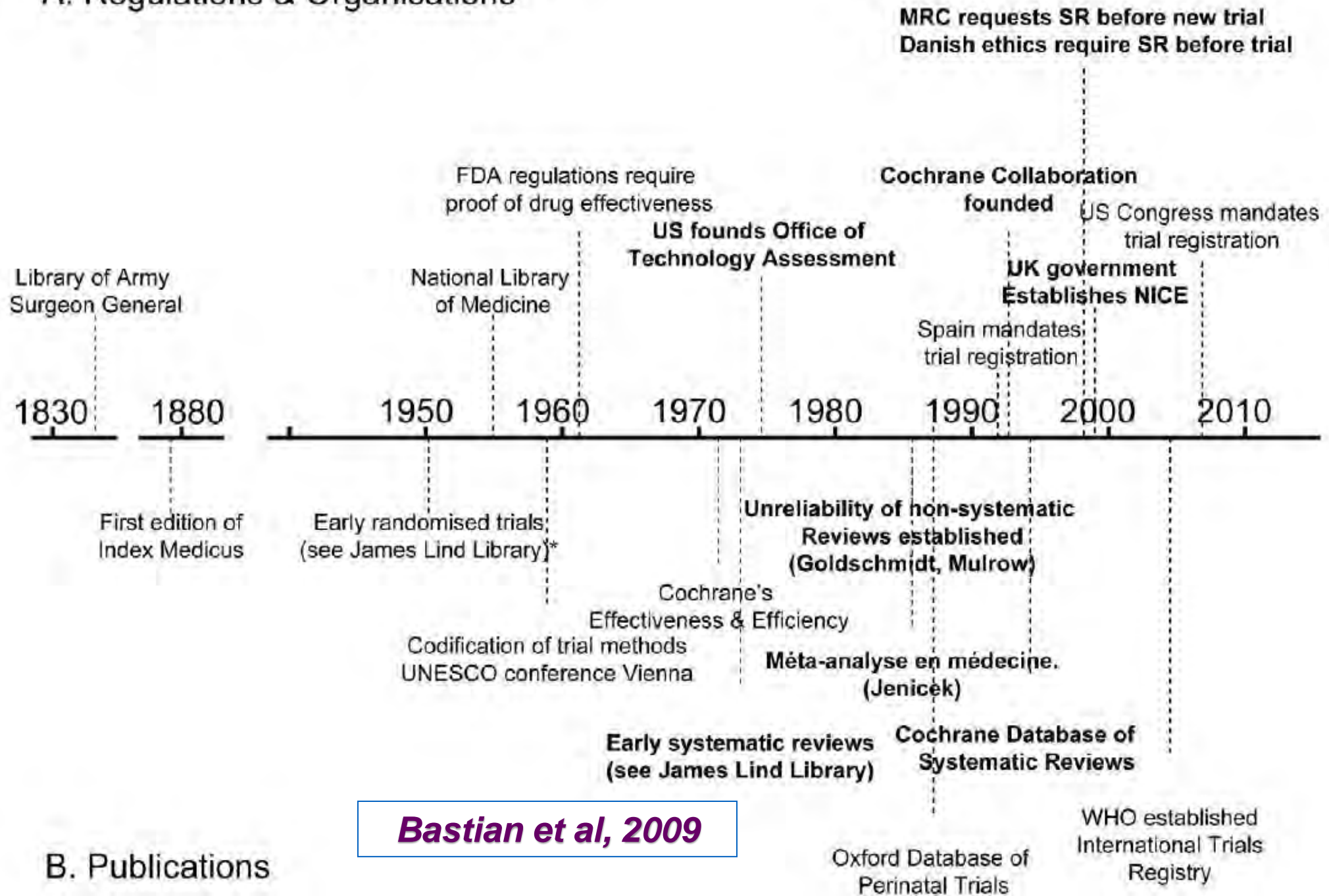


### Box 1. Early Systematic Reviews of the Effects of Health Care Interventions

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***Bastian et al, 2009***

## A. Regulations & Organisations



***Bastian et al, 2009***

## B. Publications

**Article**

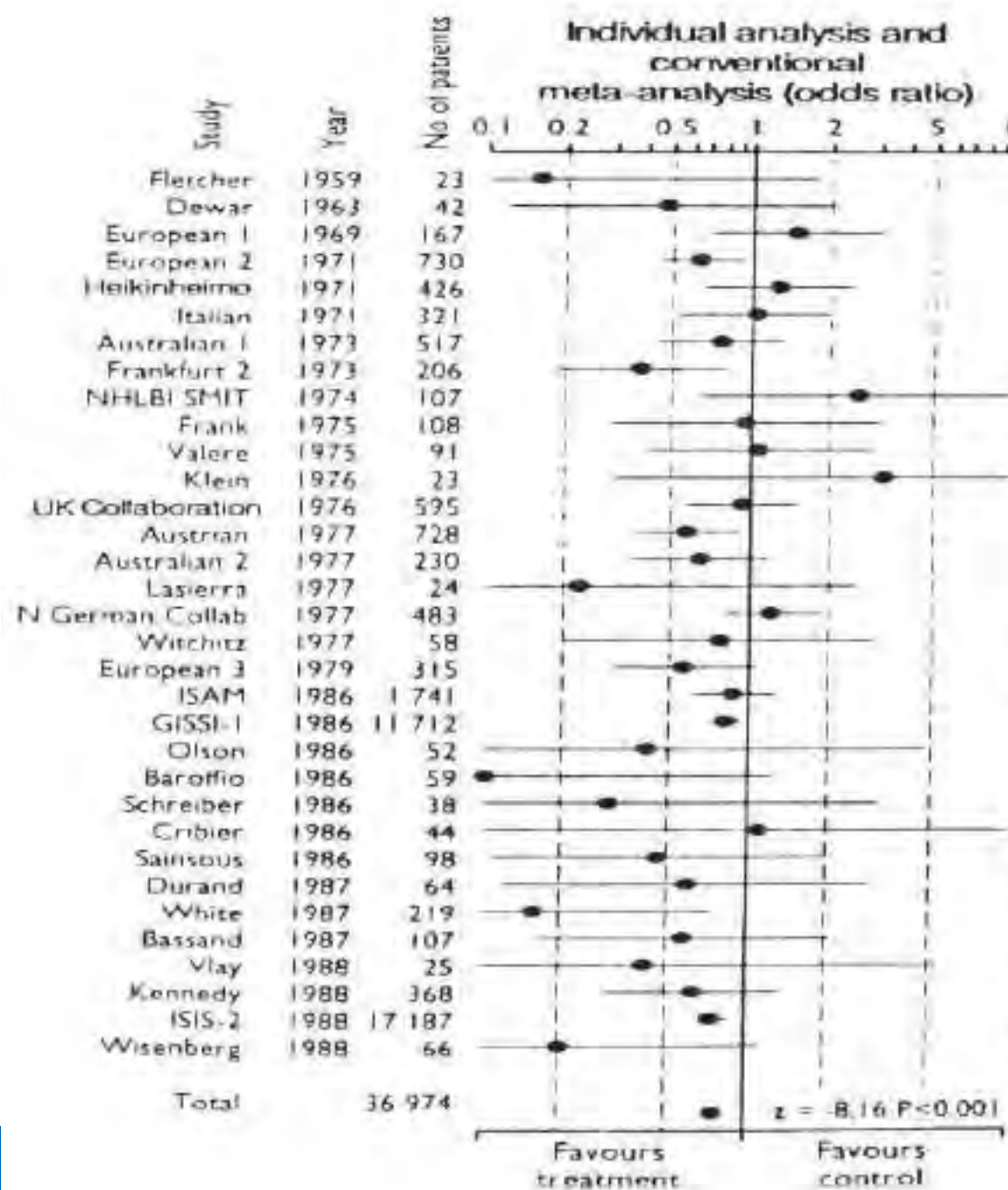
July 8, 1992

# **A Comparison of Results of Meta-analyses of Randomized Control Trials and Recommendations of Clinical Experts**

## **Treatments for Myocardial Infarction**

Elliott M. Antman, MD; Joseph Lau, MD; Bruce Kupelnick; [et al](#)[» Author Affiliations](#)

JAMA. 1992;268(2):240-248. doi:10.1001/jama.1992.03490020088036



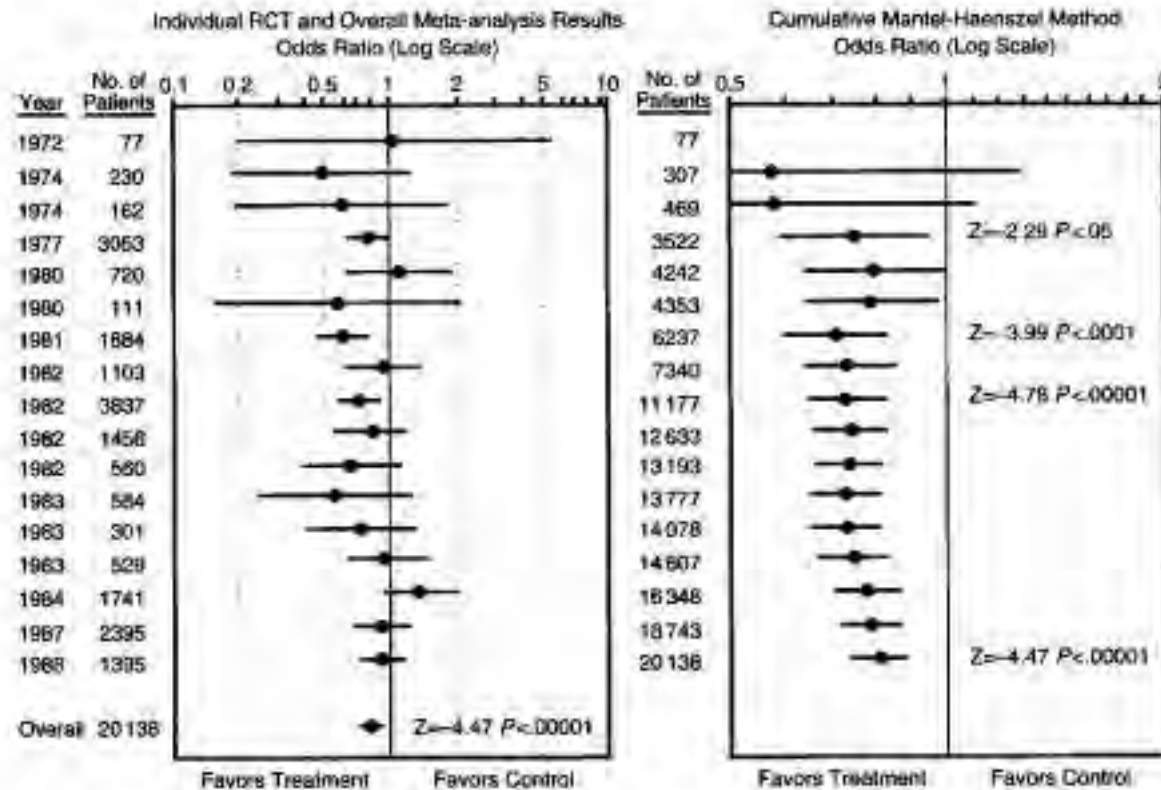


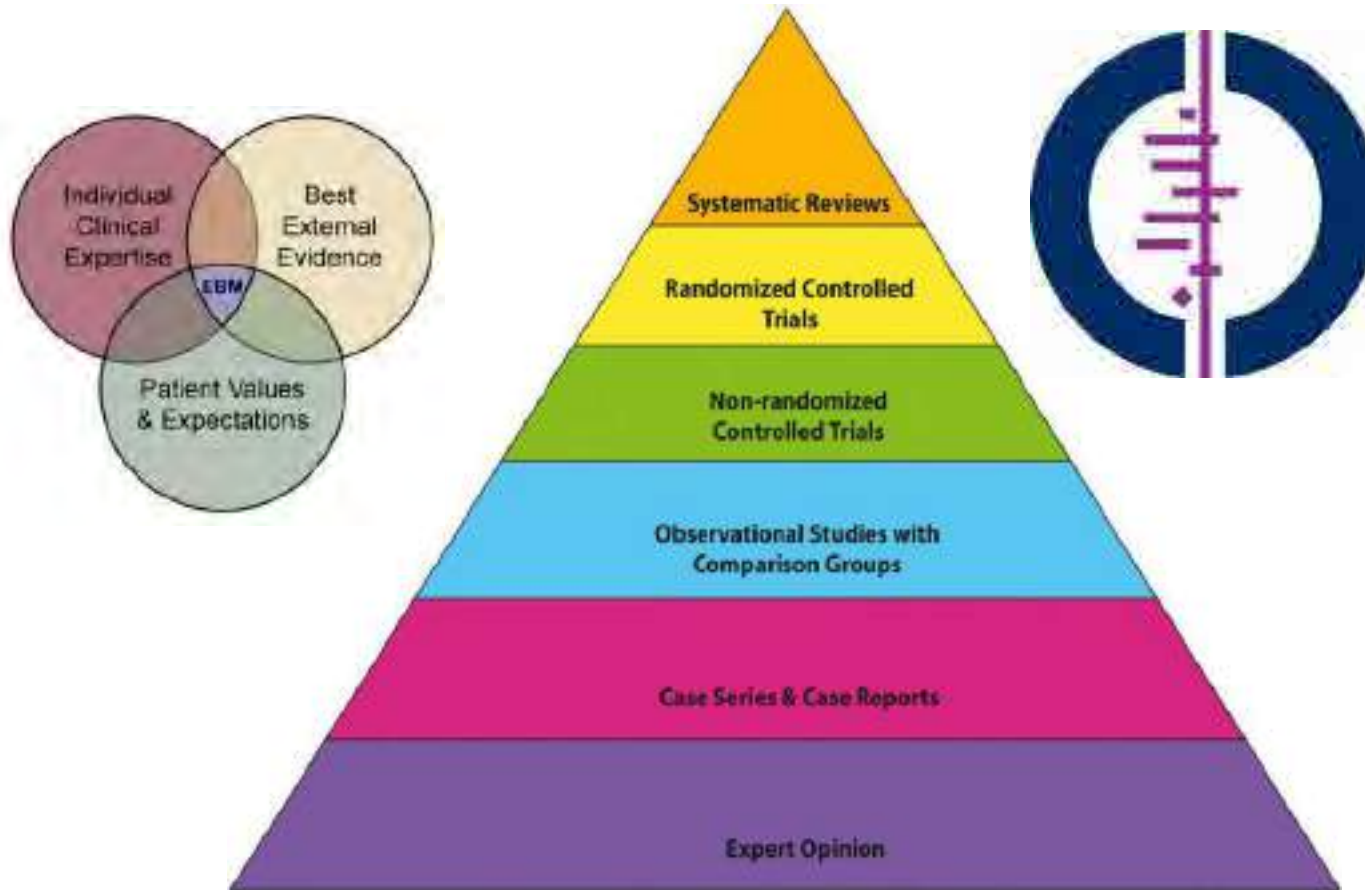
Fig 1.—Results of 17 randomized control trials (RCTs) of the effects of oral  $\beta$ -blockers for secondary prevention of mortality in patients surviving a myocardial infarction presented as two types of meta-analyses. On the left is the traditional one, revealing many trials with nonsignificant results but a highly significant estimate of the pooled results on the bottom of the panel. On the right, the same data are presented as cumulative meta-analyses, illustrating that the updated pooled estimate became statistically significant in 1977 and has remained so up to the present. Note that the scale is changed on the right graph to improve clarity of the confidence intervals.

Antman et al (1992): A  
Comparison of Results of  
Meta-analyses of RCTs and  
Recommendations of  
Clinical Experts. Treatments  
for Myocardial Infarction

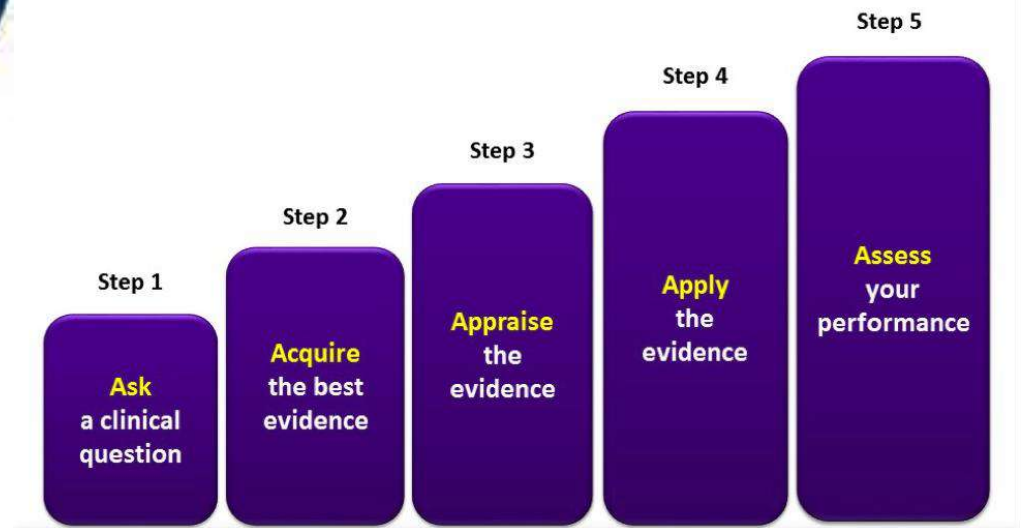
*JAMA 268 (2):240-8*

<https://jamanetwork.com/journals/jama/fullarticle/398415>

# The EBM Approach ... 1<sup>st</sup> Decade...



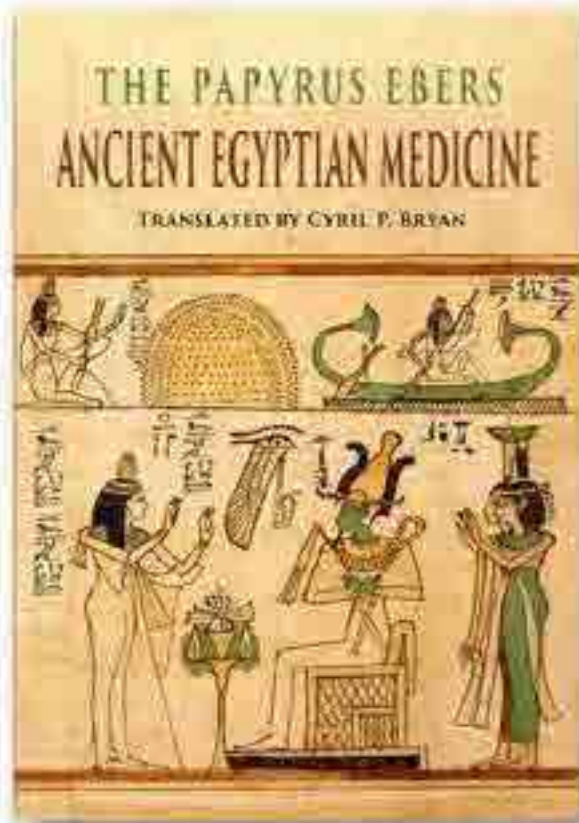
## The 5 Steps of Evidence-Based Medicine



# How Old Are Clinical Practice Guidelines?



# How Old Are Clinical Practice Guidelines?









ATLS = Level of Evidence **GOBSAT**  
Good Old Boys Sitting Around a Table

@srrezaie

# The EBM Approach ... 1<sup>st</sup> Decade...



1991



1995

**NICE** National Institute for  
Health and Care Excellence

1999



1993



1996



## Guidelines and Measures

### About NGC and NQMC

### Guideline and Measure Summaries

### Updates

# About NGC and NQMC

This resource, Guidelines and Measures, was set up by AHRQ to provide users a place to find information about its legacy guidelines and measures clearinghouses, National Guideline Clearinghouse (NGC) and National Quality Measures Clearinghouse (NQMC). This information was previously available on [guideline.gov](#) and [qualitymeasures.ahrq.gov](#), respectively. Both sites were taken down on July 16, 2018 because federal funding though AHRQ was no longer available to support them.

## National Guideline Clearinghouse (NGC)

NGC was an initiative of AHRQ, U.S. Department of Health and Human Services. NGC was originally created in 1997 by AHRQ in partnership with the American Medical Association and the American Association of Health Plans (now America's Health Insurance Plans [AHIP]). In January 1999, the database-driven Web site was made available to the public and it was maintained and improved by AHRQ for nearly twenty years.

1998 - 2018

## Promoting effective guideline use in Ontario

Walter W. Rosser, Dave Davis, Erin Gilbert, on behalf of the Guideline Advisory Committee

The Ministry of Health and Long-Term Care and the Ontario Medical Association (OMA) negotiate 3-year agreements for funding medical services in Ontario. The quality of care provided to the population of Ontario and accountability regarding the utilization of services paid for by the system is of interest to both parties. During the 1997 negotiations, it was agreed that a committee with 3 representatives from the ministry, 3 from the OMA and 1 ex-officio member of the Institute for Clinical Evaluative Sciences should be formed to promote the adoption of evidence-based clinical practice guidelines in the province and to consult widely with the profession in the process. The Guideline Advisory Committee (GAC) was thus established; it reports to the Physician Services Committee, another joint initiative resulting from the negotiations.

In this article we describe the methods that have been developed over the last 4 years to identify well-developed guidelines and some of the strategies being proposed for

seldom have guidelines had any noticeable impact on clinical practice.<sup>1</sup> The large volume of guidelines creates confusion for practitioners, who often follow none of them because of the time required to assess the quality of each.<sup>2</sup> The GAC thus determined that its first priority was to identify the highest quality guidelines available on selected topics and then to promote their dissemination across the province.

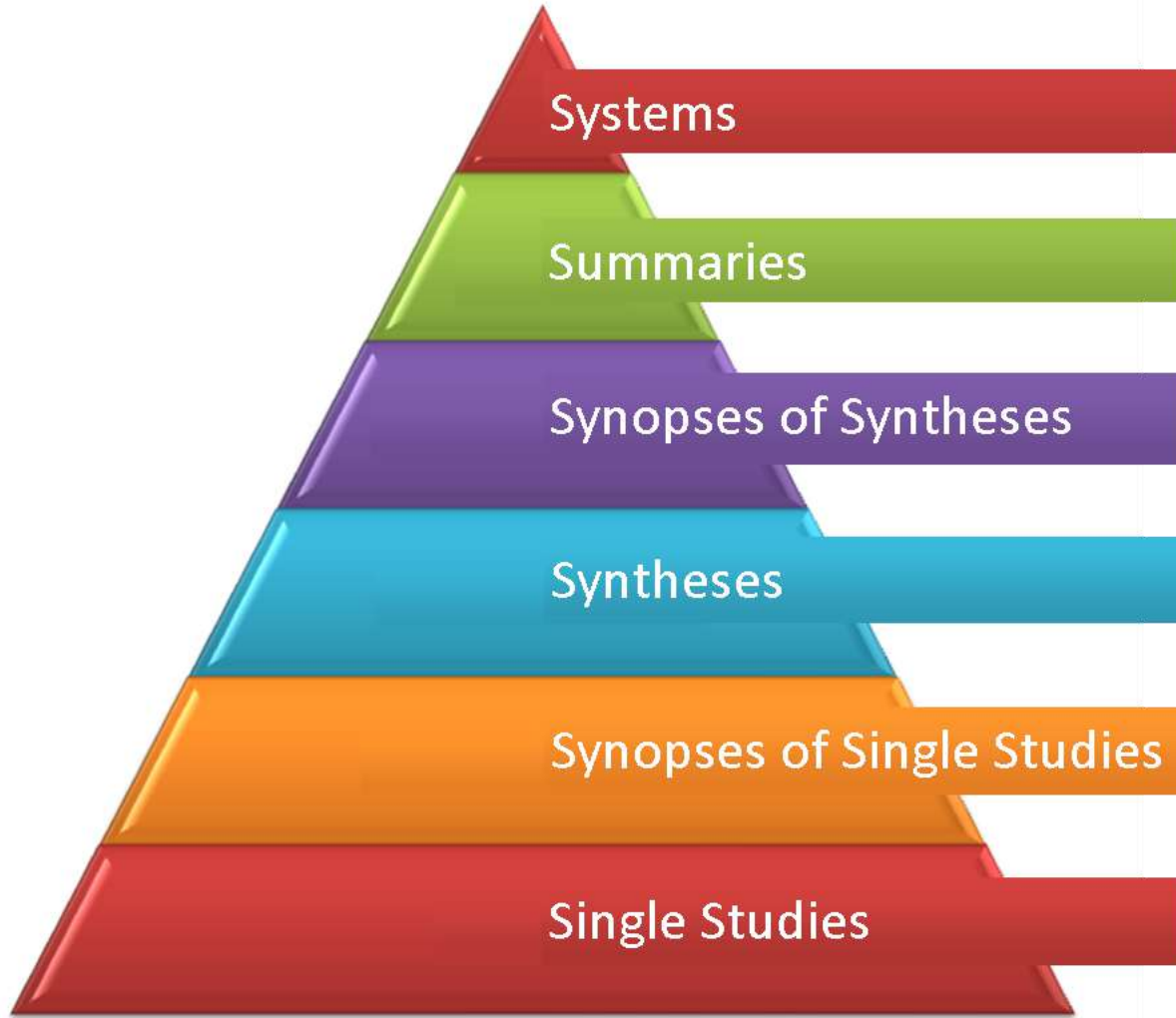
In producing a list of priority topics for guideline assessment, the committee took the following factors into account: feedback from the OMA sections indicated that there was considerable confusion for practitioners over conflicting advice for appropriate practice; utilization data from the ministry demonstrated that the use of numerous procedures had increased rapidly over previous years; and feedback from practising physicians identified areas in which they felt that there was a need for guidelines to aid practice.

Literature searches were then conducted by librarians at the University of Toronto to find all English-language

# EBM: 2<sup>nd</sup> Decade



# The EBM Approach ... 2<sup>nd</sup> Decade...



2000



2000



2000

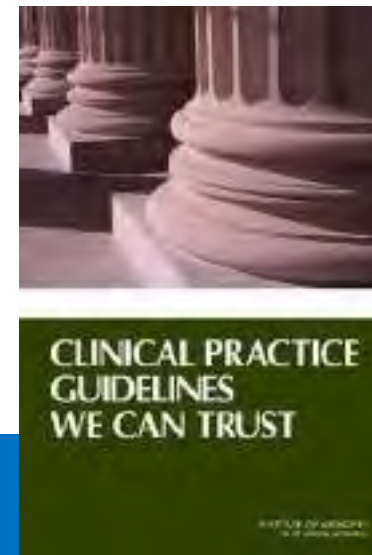
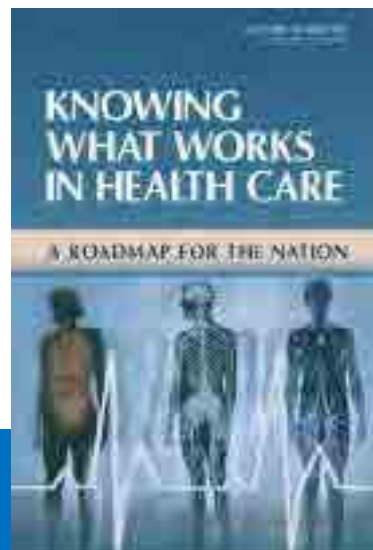


# EB- Clinical Practice Guidelines (CPGs)?\*

CPGs are statements that include recommendations intended to optimize patient care that are informed by:

- a systematic review of evidence
- an assessment of the benefits and harms of alternative care options.

\*IOM, 2008



## Guidelines International Network: Toward International Standards for Clinical Practice Guidelines

Amir Qaseem, MD, PhD, MHA; Frode Forland, MD, DPH; Fergus Macbeth, MD; Günter Ollenschläger, MD, PharmD, PhD; Sue Phillips, PhD; and Philip van der Wees, PhD, PT, for the Board of Trustees of the Guidelines International Network\*

Guideline development processes vary substantially, and many guidelines do not meet basic quality criteria. Standards for guideline development can help organizations ensure that recommendations are evidence-based and can help users identify high-quality guidelines. Such organizations as the U.S. Institute of Medicine and the United Kingdom's National Institute for Health and Clinical Excellence have developed recommendations to define trustworthy guidelines within their locales. Many groups charged with guideline development find the lengthy list of standards developed by such organizations to be aspirational but infeasible to follow in entirety.

Founded in 2002, the Guidelines International Network (G-I-N) is a network of guideline developers that includes 93 organizations and 89 individual members representing 46 countries. The G-I-N board of trustees recognized the importance of guideline development processes that are both rigorous and feasible even for modestly funded groups to implement and initiated an effort toward consensus about minimum standards for high-quality guidelines. In

contrast to other existing standards for guideline development at national or local levels, the key components proposed by G-I-N will represent the consensus of an international, multidisciplinary group of active guideline developers.

This article presents G-I-N's proposed set of key components for guideline development. These key components address panel composition, decision-making process, conflicts of interest, guideline objective, development methods, evidence review, basis of recommendations, ratings of evidence and recommendations, guideline review, updating processes, and funding. It is hoped that this article promotes discussion and eventual agreement on a set of international standards for guideline development.

*Ann Intern Med.* 2012;156:525-531.

[www.annals.org](http://www.annals.org)

For author affiliations, see end of text.

\* For a list of members of the board of trustees of the Guidelines International Network, see the Appendix (available at [www.annals.org](http://www.annals.org)).

# IOM and GIN Standards for Clinical Practice Guidelines We Can Trust (2011)

- <https://www.ncbi.nlm.nih.gov/books/NBK209539/>

Component	Description
Composition of guideline development panel	Panel should be diverse and include relevant stakeholders.
Decision-making process	Process used to reach consensus among panel members should be described; need to establish prior to initiating guideline development.
Conflicts of interest	Include disclosure of financial and non-financial conflict.
Scope of guideline	Specify objectives and scope.
Methods	Clearly describe methods used.
Evidence reviews	Use systematic evidence review methods to identify and evaluate evidence.

# IOM and GIN Standards for Clinical Practice Guidelines We Can Trust (2011)

Component	Description
Guideline recommendations	Clearly state recommendations and the scientific evidence of benefits, harms and costs, if possible, on which they are based.
Rating evidence and recommendations	Use a rating system to communicate the quality and reliability of the evidence and the strengths of recommendations.
Peer review and stakeholder consultations	Include external review by stakeholders prior to publication.
Guideline expiration and updating	Include an expiration date and/or describe process for updating recommendations.
Financial support and sponsor	Disclose financial support.

# World Health Organisation

A photograph of the World Health Organisation building in Geneva. The building is a large, modern structure with a glass facade and a prominent circular emblem on the right side. The emblem features a caduceus (a staff with two snakes entwined and wings at the top) surrounded by a laurel wreath. The building is set against a clear blue sky. In the foreground, there is a road with a red and white striped curb and a red circular traffic sign with the number '40t'.

Although established as a normative organization, its products were not necessarily EB

## Use of evidence in WHO recommendations



Andrew D Oxman, John N Lavis, Aile Frithson

### 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 and in the field. We reviewed a sample of the recommendation-containing reports (including background documentation). Two individuals independently reviewed 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.

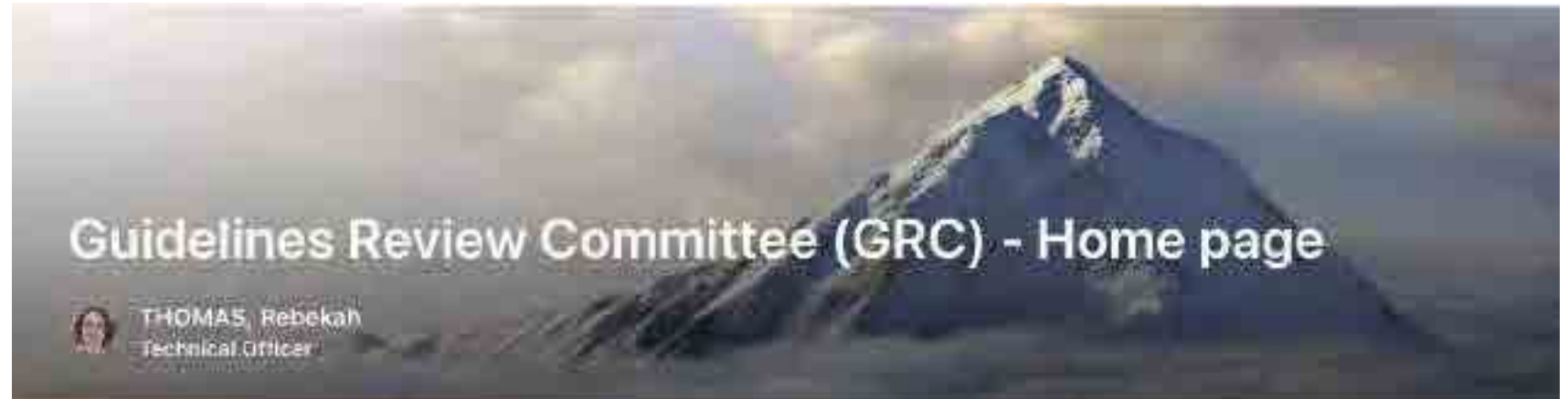
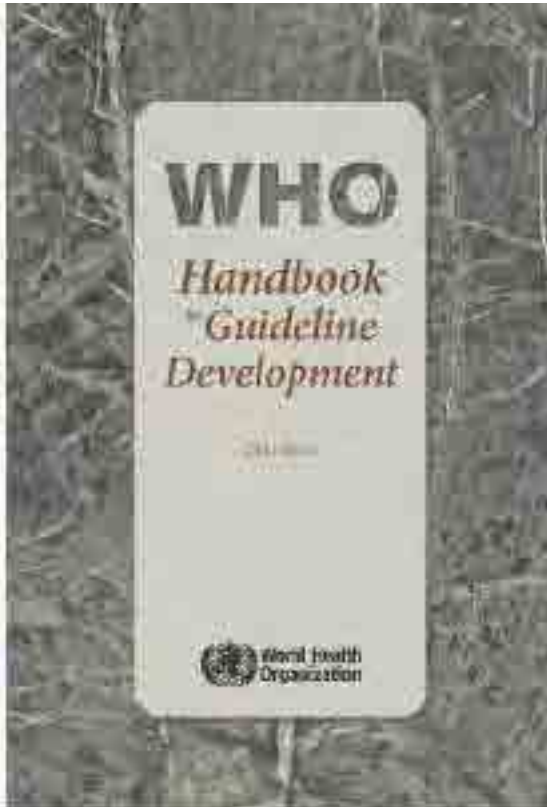
Systematic reviews and concise summaries of findings are rarely used for developing recommendations. Instead, processes usually rely heavily on experts in a particular specialty, rather than representatives of those who will have to live with the recommendations or on experts in particular methodological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

Dr Andrew D Oxman, Director of the Centre for Health Economics and Policy Analysis, McMaster University, Hamilton, Canada. (J.N. Lavis MD)

Correspondence to: Dr Andy Oxman, [oxman@online.no](mailto:oxman@online.no)



# WHO Handbook and GRC



# Establishing Evidence-Informed Policy Network (EVIPNet), 2005

[Health Topics ▾](#)[Countries ▾](#)[Newsroom ▾](#)[Emergencies ▾](#)[Data ▾](#)[About WHO ▾](#)

[Home](#) / [Publications](#) / [Overview](#) / EVIPNet in action: 10 years, 10 stories

## EVIPNet in action: 10 years, 10 stories

31 January 2016 | Publication



### Overview

This report marks 10 years of painstaking and determined effort by EVIPNet in Africa, the Americas, Asia, the Eastern Mediterranean and now in eastern Europe , and describes 10 examples of the significant impact EVIPNet has had on local or national health policy. The wealth of achievement and learning generated by EVIPNet's activities to date is being drawn on by policy-makers, researchers and civil society groups worldwide.

[EVIPNet in action - Executive Summary](#)

### WHO TEAM

Chief Scientist and Science Division (SCD),  
Evidence to policy & Impact (ERP), EVIPNet

### EDITORS

World Health Organization

### NUMBER OF PAGES

56

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WHO REFERENCE NUMBER:

WHO/HIS/IER/REK/16.02

MONITORING  
AND ANALYSISEvidence  
Informed Policy  
Network  
(EVIPNet)PAHO Virtual  
coursesWHO and PAHO  
guidelines  
synthesisGuidelines and  
health policy  
development  
standards

Evidence Maps

--> Strategies to  
Reduce Health  
Inequalities--> Antibiotic  
Prophylaxis for  
Surgical  
Procedures

## Evidence Informed Policy Network (EVIPNet)

### 1. Evidence Informed Policy Network (EVIPNet)

The Evidence Informed Policy Network (EVIPNet) is a network established by the WHO to promote the systematic use of evidence in the development of health policies in order to strengthen appropriate programs, services and interventions to those who need them.

It is present in all WHO regions and is coordinated at the regional and global level. EVIPNet consists of teams at the country level, which include policy makers, researchers, and representatives of civil society, who work together to develop and implement policies by using the best global and local evidence available.

EVIPNet builds capacity in countries to develop policy synopsis and mechanisms to

#### EVIPNet in action

EVIPNet in action: 10 years, 10 stories

Evidence  
Informed Policy  
Network  
(EVIPNet)

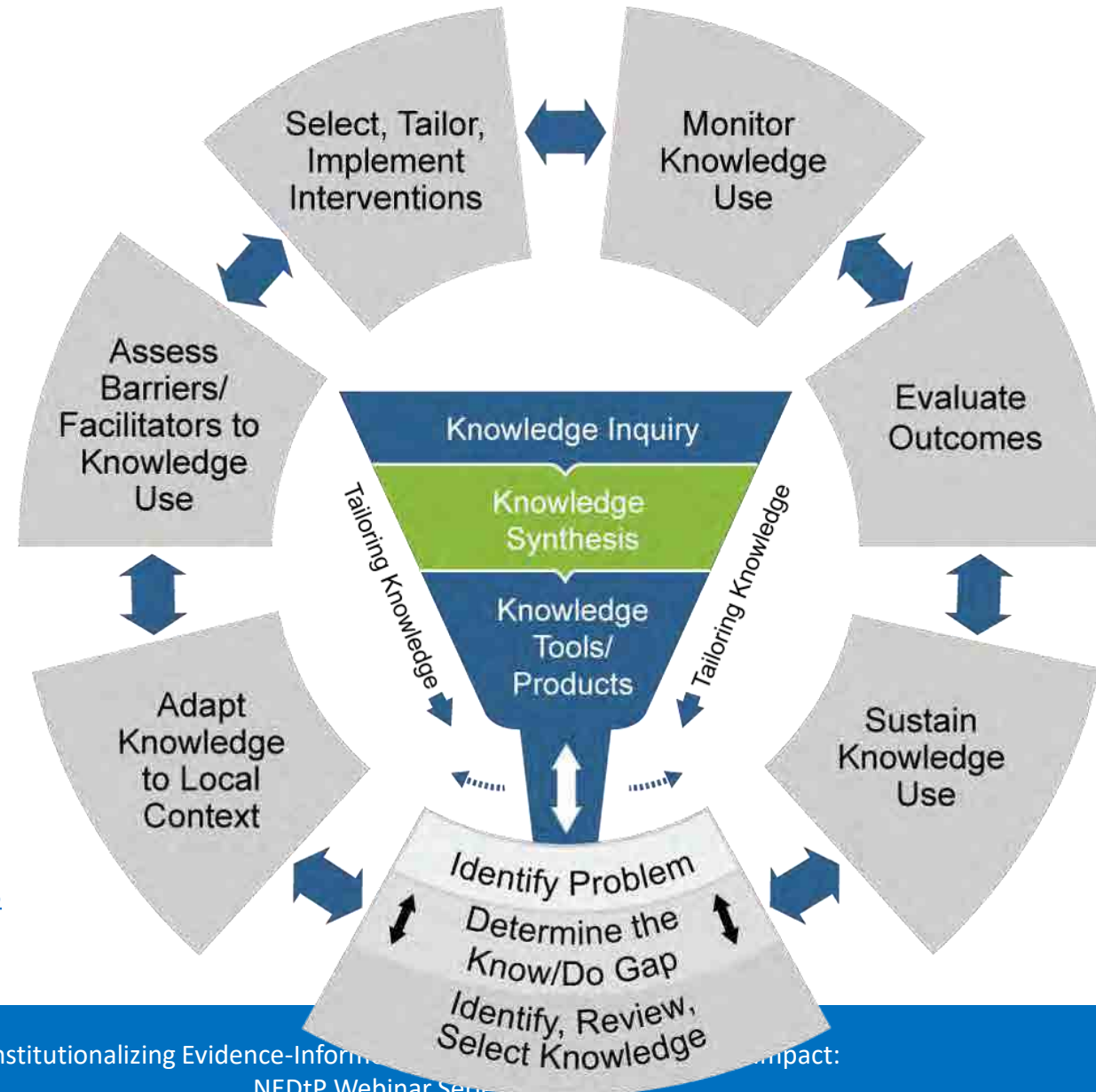
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**KNOW**

**DO**

# Knowledge-To-Action Framework



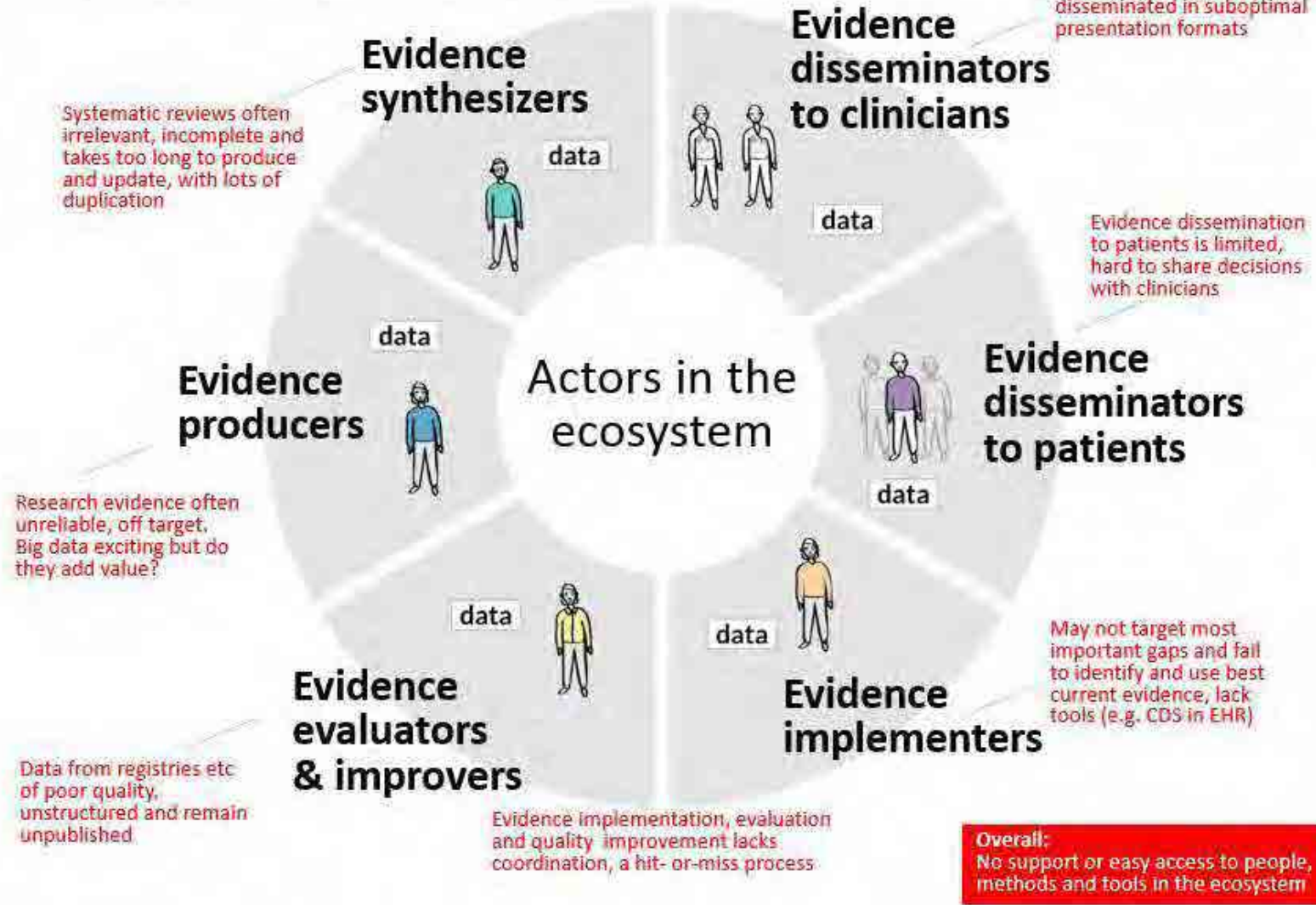
Source: Graham et al. (2006) —  
<https://www.ncbi.nlm.nih.gov/pubmed/16557505>

# Evidence Wheel: JBI Model of EBHC

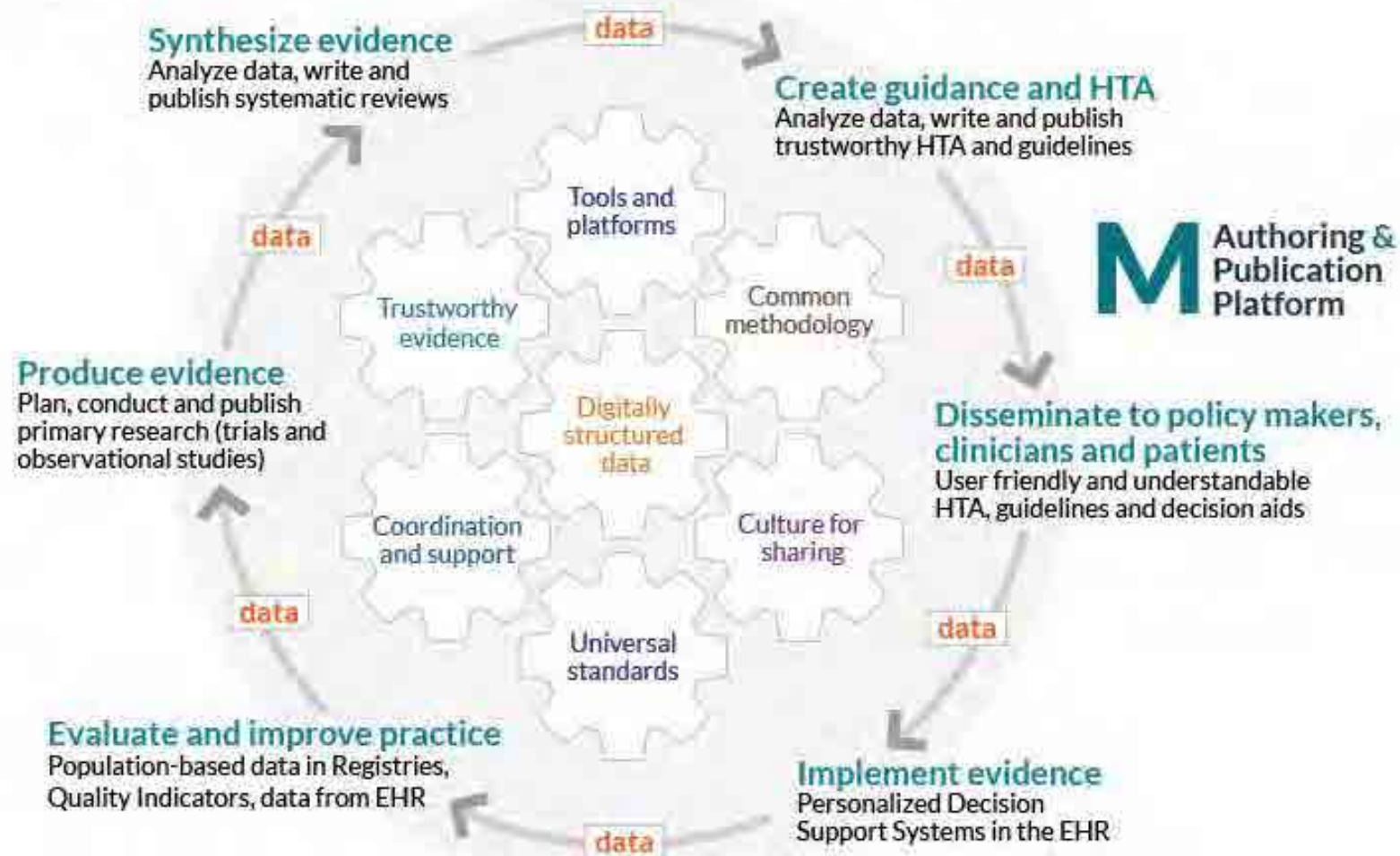


<https://www.linkedin.com/pulse/evidence-ecosystem-wheel-zachary-munn/>

**Currently poor functioning evidence ecosystem with challenges at every step**



## The Digital and Trustworthy Evidence Ecosystem



# Partnerships

- Evidence
- Synthesis
- International

About Training & Capacity Advocacy Infrastructure Synthesis Methods News & Events Contact



## About ESI

Articulated in our [Position Statement](#), ESI is a partnership of evidence synthesis organisations around the world that

## About Evidence Synthesis

Evidence synthesis uses formal, explicit, and rigorous methods to bring together the findings of studies already

Search ...



## News & Events

Is your organisation engaged in producing, supporting, or using evidence syntheses related to the



**3º PAINEL  
INTERNACIONAL**

de Prática Baseada em Evidências

Desenvolvimento e implementação de  
Guidelines Baseados em Evidências

Unimed  
Brasil

Unimed  
Feop

# Better evidence for a better world

Improving societal outcomes through the production and use of timely, trustworthy and affordable evidence.

[Join our commitment](#)



# Our collaborative model produces better evidence on a topic because of four core attributes

## 1 Living production → Up-to-date

Living synthesis produces evidence that is always available and always up-to-date, enabling evidence users to share evidence irrespective of their timing needs. This is important because mismatched timing needs have been a major barrier to effective collaboration.

## 2 User collaboration → Affordable

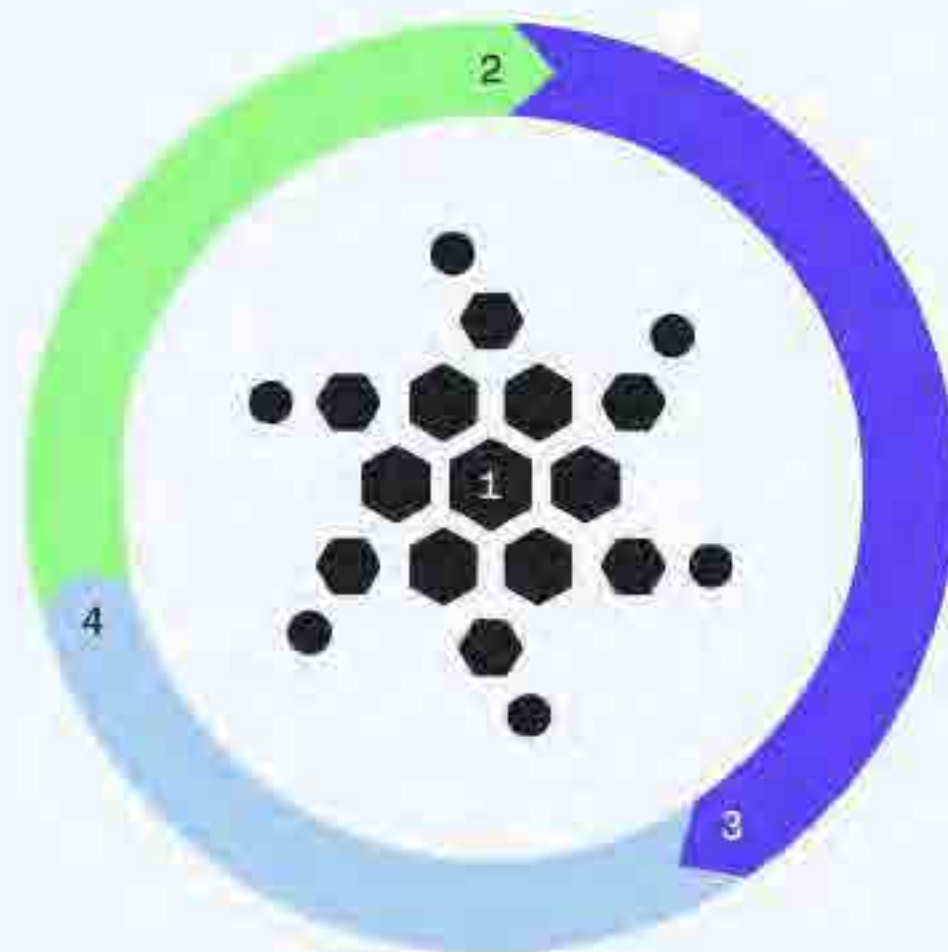
Evidence users with common evidence needs source evidence as a consortium to reduce their individual costs of evidence and enable more widespread use of evidence in decision-making.

## 3 Supply coordination → Trustworthy

Shared procurement coordinates evidence production so evidence is "produced once, used many times" and consolidates funding so producers can afford the resources to comprehensively synthesise large quantities of research.

## 4 Better evidence → More impact

Attracts more evidence users, which further improves the affordability and trustworthiness of the evidence and amplifies its impact.



Get in touch to learn more about our model and how it works.

10 – 13 September 2024

# Global Evidence Summit 2024

📍 PRAGUE, CZECH REPUBLIC

## BMJ Evidence-Based Medicine

► Evid Based Med. 2016 Jun 23;21(4):125–127. doi: [10.1136/ebmed-2016-110401](https://doi.org/10.1136/ebmed-2016-110401) [2]

### New evidence pyramid

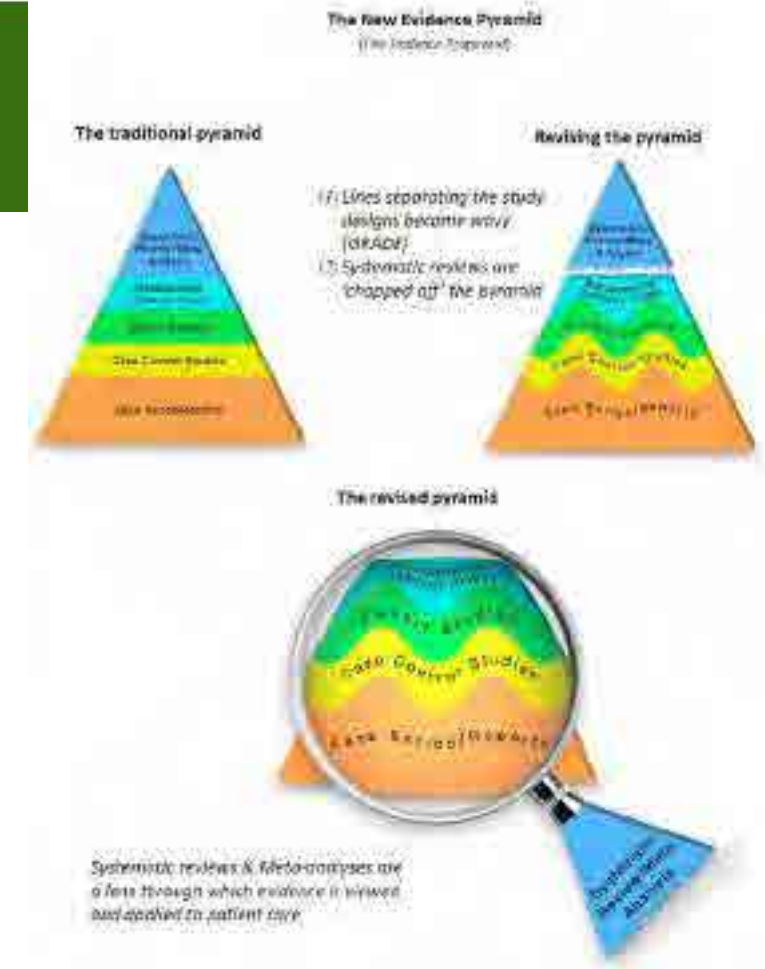
M Hassan Murad<sup>1</sup>, Noor Asi<sup>1</sup>, Mouaz Alsawas<sup>1</sup>, Fares Alahdab<sup>1</sup>

► Author information ► Article notes ► Copyright and License information

<sup>1</sup> Rochester, Minnesota, USA

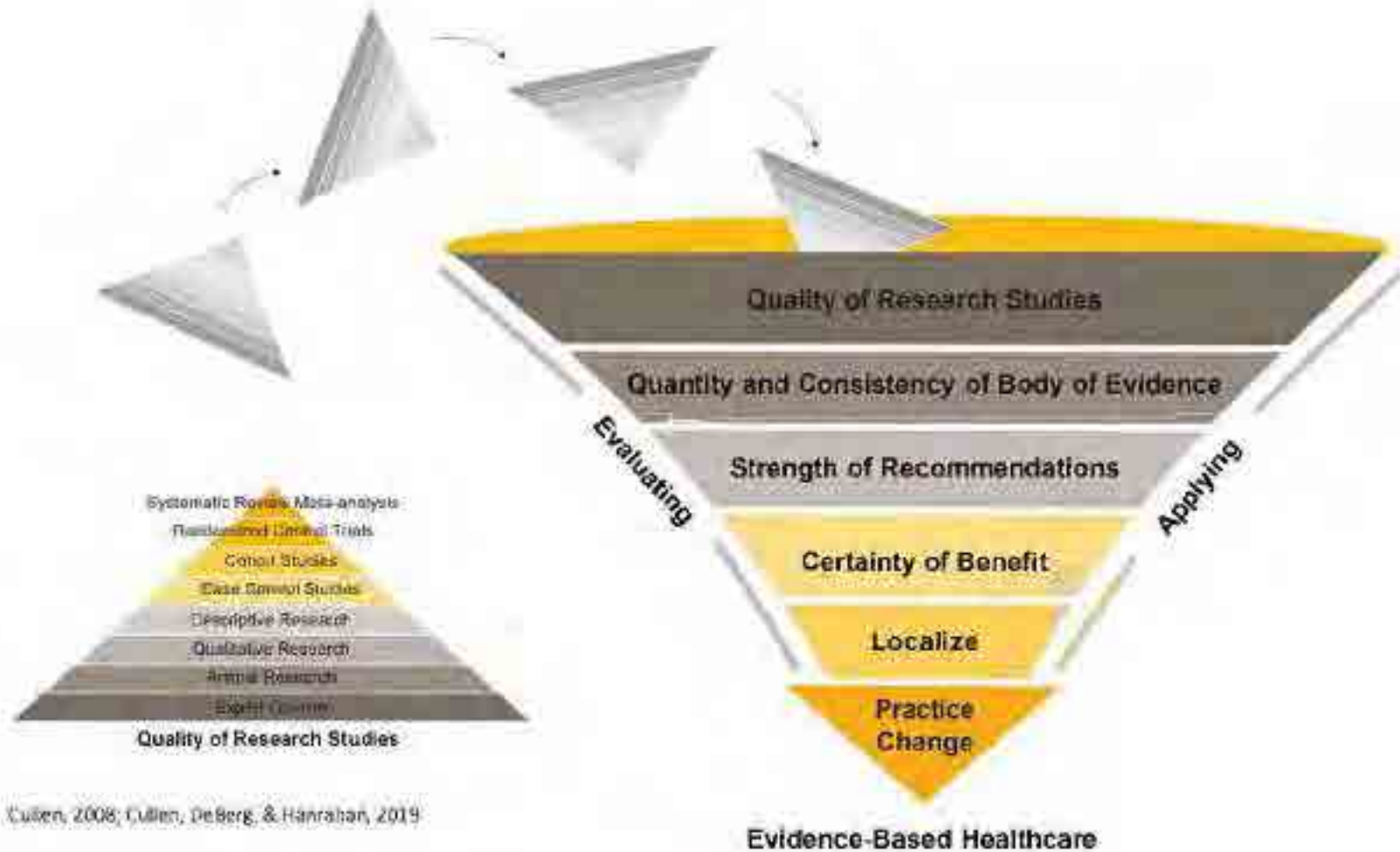
<sup>✉</sup> Correspondence to: Dr M Hassan Murad, Evidence-based Practice Center, Mayo Clinic, Rochester, MN 55905, USA; [murad.mohammad@mayo.edu](mailto:murad.mohammad@mayo.edu)

PMCID: PMC4975798 PMID: [27339128](https://pubmed.ncbi.nlm.nih.gov/27339128/)



# Hierarchy of evidence in decision-making: The Evidence Pyramid Problem





Cullen, 2008; Cullen, DeBerg, & Hanrahan, 2019

**FIGURE 5.3 Evidence Funnel Approach**

Cullen, L., Hanrahan, K., Farrington, M., Tucker, S., & Edmunds, S. (2023). Evidence-based practice in action: Comprehensive strategies, tools, and data from University of Iowa Hospitals & Clinics (2nd ed.). Sigma Theta Tau International.

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# Technical Aspects of Evidence Synthesis



# What is the Role of Evidence Synthesis in Guideline Development?

- Systematic collection and evaluation of research to inform recommendations.
- Importance of minimizing bias and ensuring transparency and reproducibility.

# Importance of Evidence-based Guidelines in Healthcare

- Standardize care, reducing variability in treatment approaches.
- Improve patient outcomes by relying on high-quality research.
- Empower healthcare providers to make informed decisions.
- Optimize resource allocation and enhance efficiency.
- Foster a culture of continual improvement and patient safety.

# CPG Production

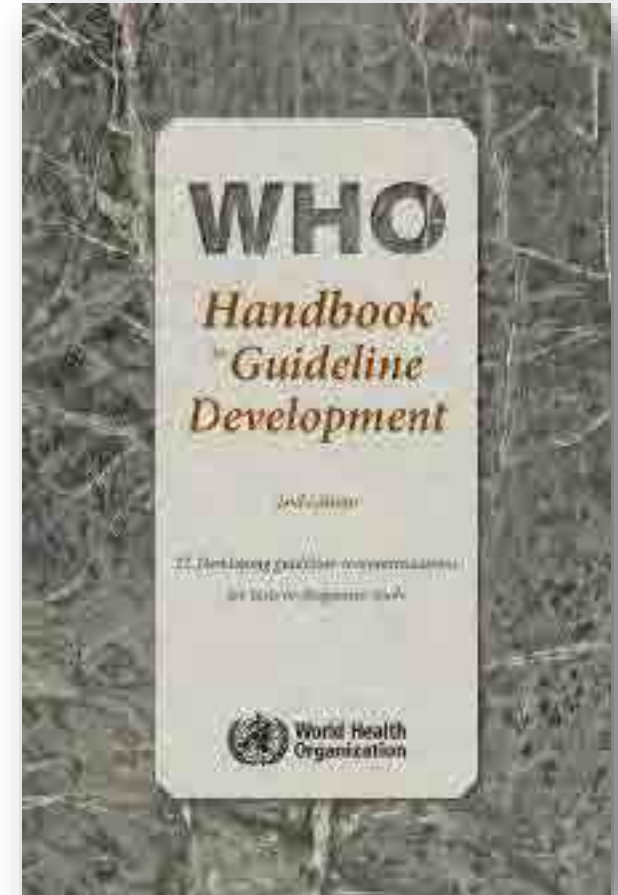
1. Adoption
2. Adaptation/ Contextualization
3. De-novo development
4. Adolopment



**Evidence Synthesis**

# WHO handbook for guideline development, 2nd Edition (2014)

1. Introduction
2. Planning guidelines
3. Contributors and their role in guideline development
4. Preparing the planning proposal
5. Incorporating equity, human rights, gender and social determinants into guidelines
6. Declaration and management of interests
7. Formulating questions and selecting outcomes
8. Evidence retrieval and synthesis
9. Evidence assessment
10. Developing recommendations



# WHO handbook for guideline development, 2nd Edition (2014) (cont'd)

- 11. Rapid advice guidelines in the setting of a public health emergency**
- 12. Producing and publishing the guideline**
- 13. Adaptation, implementation, and evaluation**
- 14. Strong recommendation when the evidence is low-quality**
- 15. Using evidence from qualitative research to develop WHO guidelines**
- 16. Decision-making for guideline development at WHO**
- 17. Developing guideline recommendations for tests or diagnostic tools**
- 18. Incorporating a complexity perspective into WHO guidelines**

**Supplement:** Criteria for use of evidence to inform recommendations

**Translations:** Arabic, Chinese, Spanish

# What is Evidence Synthesis?

- **The process of systematically gathering, analyzing, and summarizing findings from multiple studies on a specific topic.**
- This approach helps to provide a comprehensive understanding of the evidence, often used to inform decision-making in healthcare, policy, and research.
- It includes methods like systematic reviews, meta-analyses, and scoping reviews

# Key Steps in Evidence Synthesis

- Formulating a PICO (**P**opulation, **I**ntervention, **C**omparator, and **O**utcome) health question.
  - *Other models: PICOTS, PIPOH, PICAR.*
- Literature search strategies.
- Data extraction and synthesis.

## *Key Steps* – **Systematic Search Strategies**

- Defining inclusion/exclusion criteria.
- Selecting databases (PubMed, Cochrane, Embase, etc.).
- Using Medical Subject Headings (MeSH) and Boolean operators.
- Grey literature and unpublished data.
- *Role of Healthcare and Medical Librarians*

# Role & Benefits of a Medical & Healthcare Librarian in Evidence Synthesis

- ✓ Expert Searching – Develops precise, comprehensive search strategies.
- ✓ Database Navigation – Identifies key sources (PubMed, Cochrane, etc.).
- ✓ Grey Literature Retrieval – Finds unpublished studies to reduce bias.
- ✓ Reference Management – Organizes citations efficiently.
- ✓ Quality Assurance – Ensures rigor, transparency, and reproducibility.
- ✓ Collaboration – Saves time, enhances research quality, and supports teams.

# **Key Steps – Critical Appraisal of Systematic Reviews**

- **Tools for assessing systematic reviews:**
  - AMSTAR-2
  - ROBIS (Risk of Bias in Systematic Reviews)
- Identifying high-quality systematic reviews for guidelines.

# Types of reviews

Type of Review	
<b>Narrative reviews</b>	A broad synthesis of literature without a structured methodology, often summarizing existing knowledge on a topic.
<b>Systematic Review</b>	A rigorous, structured review that follows a predefined protocol to identify, appraise, and synthesize all relevant studies on a specific question to generate a robust conclusion.
<b>Meta-Analysis</b>	A statistical approach that combines data from multiple studies in a systematic review to produce a pooled effect estimate.
<b>Scoping Review</b>	A preliminary assessment of the breadth and depth of research on a topic, mapping available evidence without detailed critical appraisal.
<b>Rapid Review</b>	An accelerated form of systematic review using streamlined methods to provide timely evidence synthesis for decision-making.
<b>Umbrella</b>	A review of systematic reviews or meta-analyses on a broad

# Types of reviews (cont'd)

Type of Review	
<b>Umbrella Review</b>	A review of systematic reviews or meta-analyses on a broad question, summarizing high-level evidence.
<b>Integrative Review</b>	A method that includes diverse study designs (qualitative and quantitative) for a holistic synthesis of evidence.
<b>Realist Review</b>	Focuses on understanding how and why interventions work in different contexts by synthesizing qualitative and quantitative evidence.
<b>Living Review</b>	A continuously updated systematic review incorporating new evidence as it becomes available.

# Reporting Guidelines

## Welcome to the Preferred Reporting Items for Systematic reviews and Meta-Analyses (PRISMA) website

Here you can access information about the PRISMA reporting guidelines, which are designed to help authors transparently report why their systematic review was done, what methods they used, and what they found.

The main PRISMA reporting guideline (the [PRISMA 2020 statement](#)) primarily provides guidance for the reporting of systematic reviews evaluating the effects of interventions. PRISMA 2020 is complemented by various [PRISMA extensions](#), which provide guidance for the reporting of different types or aspects of systematic reviews and other types of evidence synthesis (e.g. scoping reviews).

Development, updating and implementation of the PRISMA reporting guidelines is overseen by the [PRISMA Executive](#), which is currently co-chaired by Prof Joanne McKenzie and Dr Matthew Page at Monash University.

## Key documents

[PRISMA 2020 checklist](#)

[PRISMA 2020 flow diagram](#)

[PRISMA 2020 statement paper](#)

[PRISMA 2020 Explanation and Elaboration paper](#)



# Reporting Guidelines



The screenshot shows the EQUATOR Network website. At the top, the logo "equator network" is on the left, followed by the tagline "Enhancing the QUALity and Transparency Of health Research". On the right is a "Website translation help" link. Below this is a navigation bar with links: Home, About us, Library, Toolkits, Courses & events, News, Blog, and Contact. A green banner below the navigation bar reads: "Your one-stop-shop for writing and publishing high-impact health research" and lists services: "find reporting guidelines | improve your writing | join our courses | run your own training course | enhance your peer review | implement guidelines". The main content area is divided into three sections. The left section, "Library for health research reporting", describes a comprehensive searchable database and lists four options: "Search for reporting guidelines" (with a checkmark icon), "Not sure which reporting guideline to use?" (with a question mark icon), "Reporting guidelines under development" (with an 'X' icon), and "Visit the library for more resources" (with a magnifying glass icon). The middle section, "Reporting guidelines for main study types", features a checkmark icon and a list of study types with their corresponding reporting guidelines: Randomised trials (CONSORT), Observational studies (STROBE), Systematic reviews (PRISMA), Study protocols (SPIRIT), Diagnostic/prognostic studies (STARD), Case reports (CARE), Clinical practice guidelines (AGREE), Qualitative research (SRQR), Animal pre-clinical studies (ARRIVE), Quality improvement studies (SQUIRE), and Economic evaluations (CHEERS). Each study type has a link to its guideline and an "Extensions" link. The right section is a "newsletter" sign-up box with an image of a desk with a laptop, a notebook, and a coffee cup, and the text "Sign up to receive it here!".

**equator network** Enhancing the QUALity and Transparency Of health Research [Website translation help](#)

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**Your one-stop-shop for writing and publishing high-impact health research**  
find reporting guidelines | improve your writing | join our courses | run your own training course | enhance your peer review | implement guidelines

**Library for health research reporting**  
The library contains a comprehensive searchable database of reporting guidelines and also links to other resources relevant to research reporting

- ✓ Search for reporting guidelines
- ? Not sure which reporting guideline to use?
- ✗ Reporting guidelines under development
- 🔍 Visit the library for more resources

**Reporting guidelines for main study types**

<a href="#">Randomised trials</a>	<a href="#">CONSORT</a>	<a href="#">Extensions</a>
<a href="#">Observational studies</a>	<a href="#">STROBE</a>	<a href="#">Extensions</a>
<a href="#">Systematic reviews</a>	<a href="#">PRISMA</a>	<a href="#">Extensions</a>
<a href="#">Study protocols</a>	<a href="#">SPIRIT</a>	<a href="#">PRISMA-7</a>
<a href="#">Diagnostic/prognostic studies</a>	<a href="#">STARD</a>	<a href="#">TRIPOD</a>
<a href="#">Case reports</a>	<a href="#">CARE</a>	<a href="#">Extensions</a>
<a href="#">Clinical practice guidelines</a>	<a href="#">AGREE</a>	<a href="#">RIGHT</a>
<a href="#">Qualitative research</a>	<a href="#">SRQR</a>	<a href="#">COREQ</a>
<a href="#">Animal pre-clinical studies</a>	<a href="#">ARRIVE</a>	
<a href="#">Quality improvement studies</a>	<a href="#">SQUIRE</a>	<a href="#">Extensions</a>
<a href="#">Economic evaluations</a>	<a href="#">CHEERS</a>	<a href="#">Extensions</a>

**equator network newsletter**  
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# **GRADE (Grading of Recommendations, Assessment, Development, and Evaluation)**

- Why GRADE?
- How GRADE differs from traditional evidence grading.
- Components of GRADE assessment.

# The Grading of Recommendations Assessment, Development, and Evaluation (GRADE) working group



- It began in the year 2000 as an informal collaboration of people interested in addressing the shortcomings of grading systems in health care.
- The working group developed a common, sensible, and transparent approach to grading the quality (or certainty) of evidence and strength of recommendations.
- Many international organizations have provided input into developing the GRADE approach, which is now considered the standard in guideline development (e.g., WHO, NICE, AHRQ, CDC, BMJ, UpToDate, etc.).

# Domains of **GRADE** – Quality of Evidence

1. Risk of bias.
2. Inconsistency of results.
3. Indirectness of evidence.
4. Imprecision in results.
5. Publication bias.

# Assessing Risk of Bias in Studies

- **Tools:**
  - Cochrane Risk of Bias 2.0 for RCTs.
  - ROBINS-I for non-randomized studies.

# Meta-Analysis and Data Synthesis in Guidelines

- Quantitative synthesis of results.
- Heterogeneity ( $I^2$  statistic).
- Fixed vs. random-effects models.
- Forest plots: interpretation and application.

# GRADE System

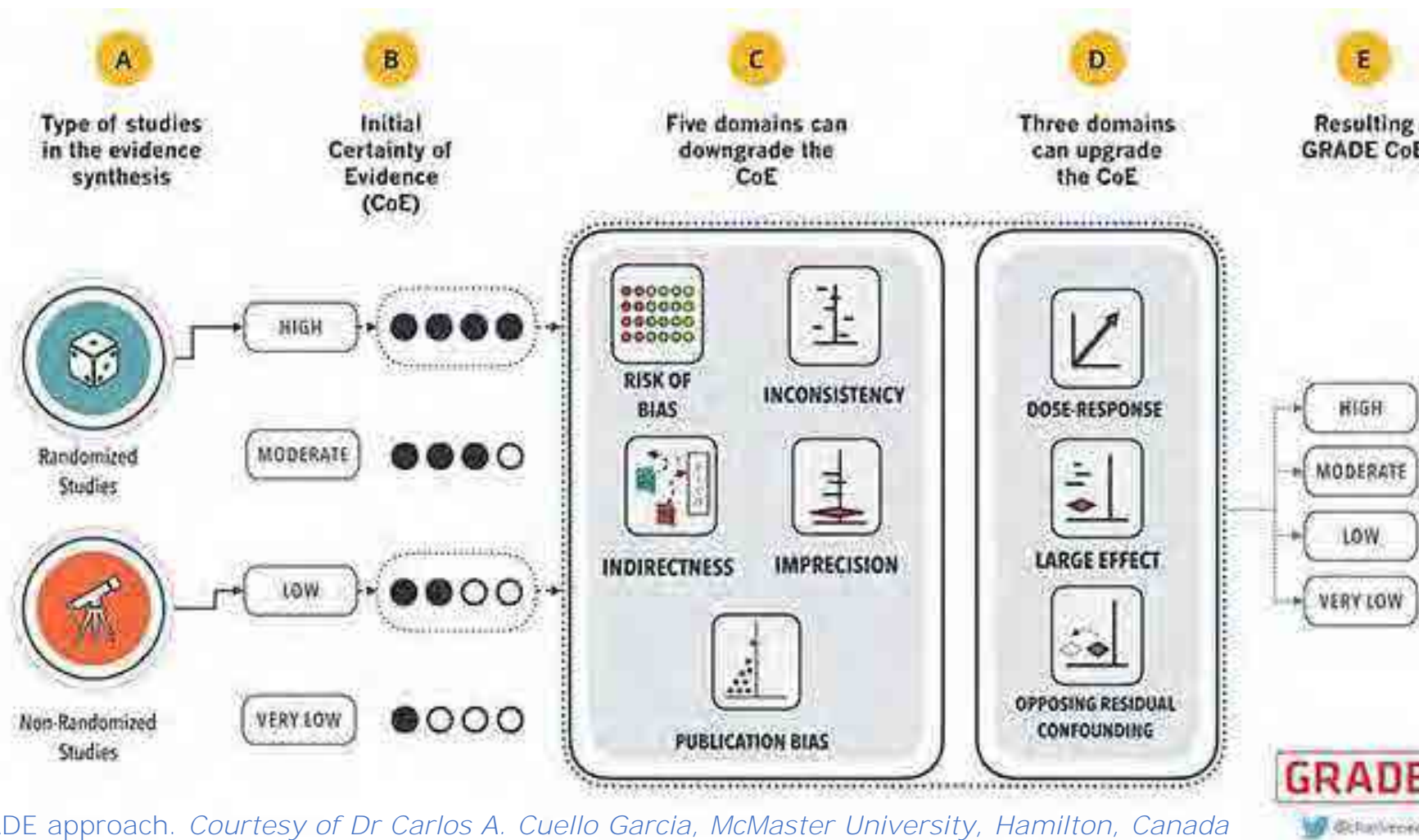


Figure. The GRADE approach. *Courtesy of Dr Carlos A. Cuello Garcia, McMaster University, Hamilton, Canada*

# GRADE Evidence Profile Table

## Structure and key components:

- Study design
- Effect size
- GRADE domains
- Final quality rating

# Example – GRADE Evidence Profile Table

## IDSA Guideline on the Treatment and Management of COVID-19

**Table 5.** GRADE evidence profile, Recommendation 5

**Question:** Glucocorticoids compared to no glucocorticoids for critically ill patients with COVID-19

*Last reviewed and updated 9/25/2020*

Certainty assessment							No of patients		Effect		Certainty	Importance
No of studies	Study design	Risk of bias	Inconsistency	Indirectness	Imprecision	Other considerations	corticosteroids	no corticosteroids	Relative (95% CI)	Absolute (95% CI)		
Mortality (follow up: 28 days)												
8 <sup>1</sup>	randomized trials	not serious	not serious	not serious	not serious	none	280/749 (37.4%)	485/1095 (44.3%)	OR 0.66 (0.54 to 0.82)	99 fewer per 1,000 (from 143 fewer to 48 fewer)	⊕⊕⊕⊕ HIGH	CRITICAL
Hospital discharge (follow up: 28 days)												
1 <sup>2</sup>	randomized trials	not serious <sup>a</sup>	not serious	serious <sup>b</sup>	not serious	none	1360/2104 (64.6%)	2639/4321 (61.1%)	RR 1.11 (1.04 to 1.19)	67 more per 1,000 (from 24 more to 116 more)	⊕⊕⊕○ MODERATE	IMPORTANT
Serious adverse events												
6 <sup>1</sup>	randomized trials	not serious	not serious	not serious	serious <sup>c</sup>	none	6 trials reported 64 events among 354 patients randomized to corticosteroids and 80 events among 342 patients randomized to standard care (Stern 2020).				⊕⊕⊕○ MODERATE	CRITICAL

CI: Confidence interval; OR: Odds ratio; RR: Risk ratio

### Explanations

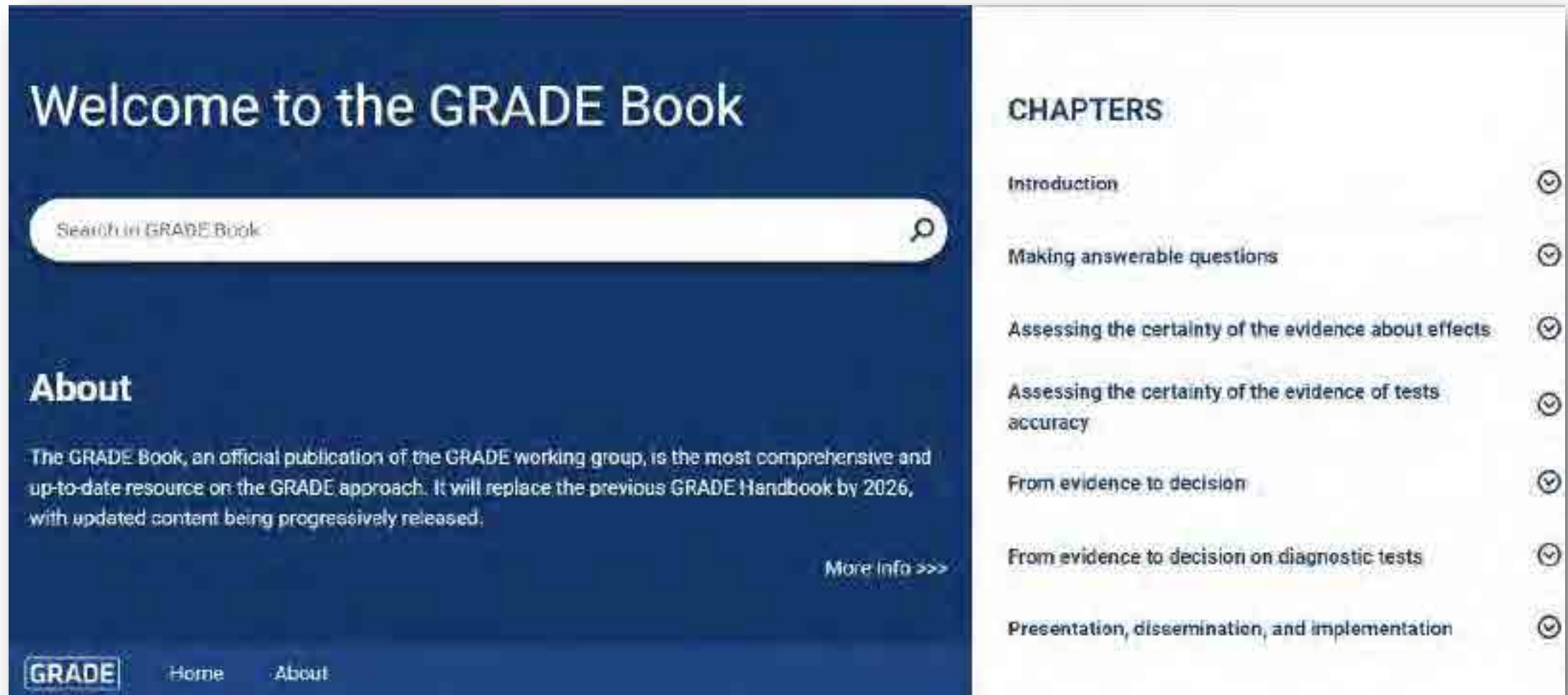
- Analysis adjusted for baseline age.
- Indirectness due to different health care system (allocation of intensive care resources in an unblinded study). Indirectness to other corticosteroids.
- The 95% CI includes the potential for both harm as well as benefit. Few events reported do not meet the optimal information size and suggest fragility in the estimate.

### References

- WHO Rapid Evidence Appraisal for COVID-19 Therapies Working Group, Sterne JAC, Murthy S, et al. Association Between Administration of Systemic Corticosteroids and Mortality Among Critically Ill Patients With COVID-19: A Meta-analysis. JAMA 2020; 324(13): 1330-41.
- RECOVERY Collaborative Group, Horby P, Lim WS, et al. Dexamethasone in Hospitalized Patients with Covid-19. N Engl J Med 2021; 384: 693-704.

# GRADE Book

<https://book.gradepro.org/>



The screenshot shows the homepage of the GRADE Book website. The left sidebar has a dark blue background with white text. The main content area has a light blue background. On the right, there is a list of chapters with expand/collapse icons.

## Welcome to the GRADE Book

Search in GRADE Book

### About

The GRADE Book, an official publication of the GRADE working group, is the most comprehensive and up-to-date resource on the GRADE approach. It will replace the previous GRADE Handbook by 2026, with updated content being progressively released.

[More info >>>](#)

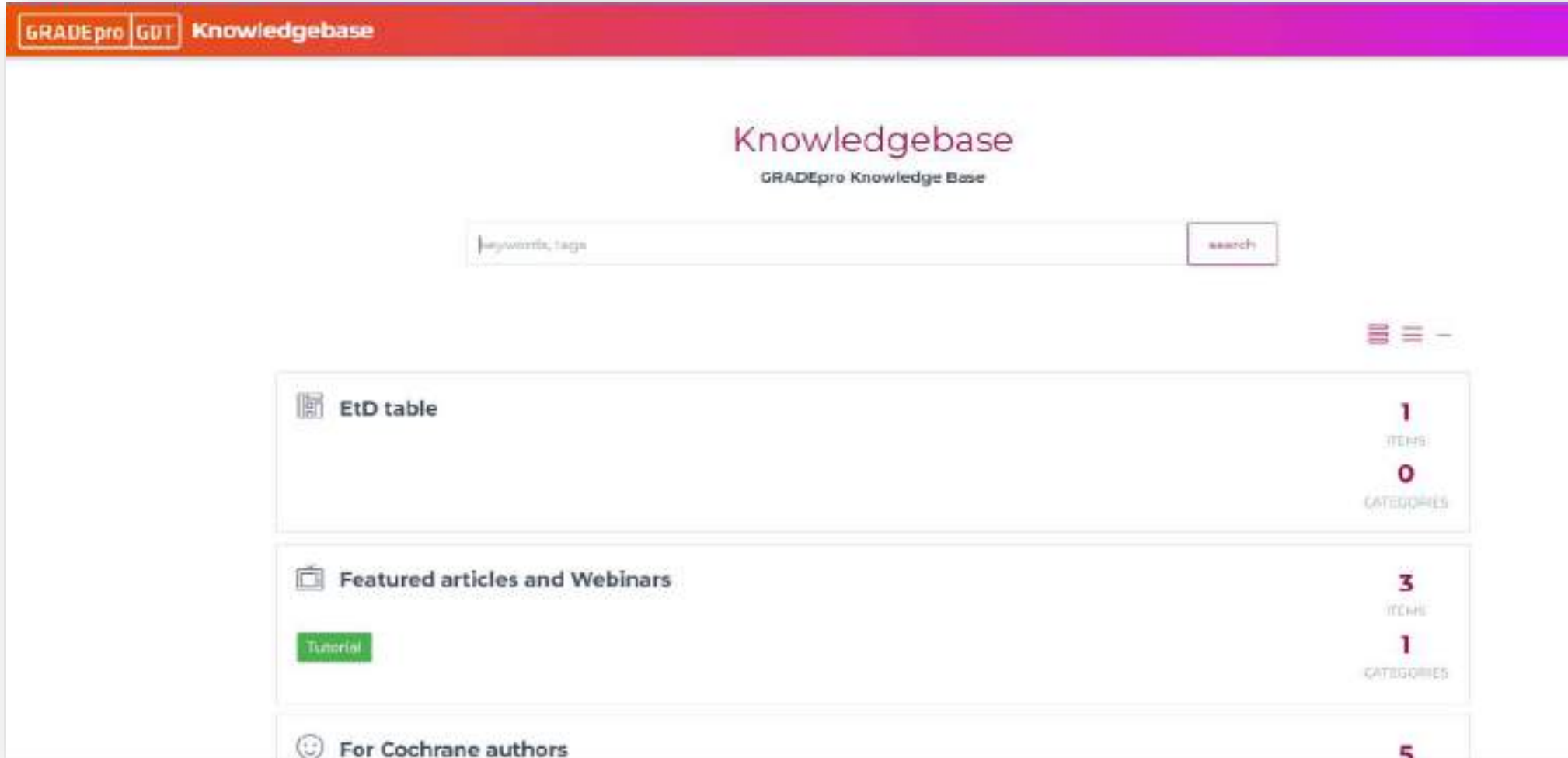
#### CHAPTERS

- Introduction
- Making answerable questions
- Assessing the certainty of the evidence about effects
- Assessing the certainty of the evidence of tests accuracy
- From evidence to decision
- From evidence to decision on diagnostic tests
- Presentation, dissemination, and implementation

# GRADE GPT



# GRADE Knowledgebase



The screenshot shows the GRADE Knowledgebase website. At the top, there is a navigation bar with 'GRADEpro', 'GDT', and 'Knowledgebase' links. Below this, the main heading 'Knowledgebase' is displayed, followed by 'GRADEpro Knowledge Base'. A search bar with the placeholder text 'keywords, tags' and a 'search' button is present. On the right side, there is a hamburger menu icon. The main content area features three sections: 'EtD table' with 1 item and 0 categories, 'Featured articles and Webinars' with 3 items and 1 category (including a 'Tutorial' link), and 'For Cochrane authors' with 5 items.

Section	Items	Categories
EtD table	1	0
Featured articles and Webinars	3	1
For Cochrane authors	5	

# Making Recommendations with GRADE

- Strong vs. conditional recommendations.
- **Factors influencing recommendation strength:**
  - Balance of benefits and harms.
  - Quality of evidence.
  - Values and preferences.
  - Resource use and feasibility.

# Evidence-to-Decision (EtD) Framework

- WHO-INTEGRATE EtD framework V1.0 (Rehfuess et al 2019)
- GRADE EtD framework (Alonso-Coello et al 2016).

*Structured decision-making for guideline panels.*



# Quality Assessment in Guideline Development



# Quality Assessment in Guideline Development

## *Why quality assessment matters?*

- Poor-quality guidelines can lead to ineffective or harmful medical practices.
- Ensuring transparency, reducing bias, and improving trust in recommendations.

# Tools for Assessing the Quality of Guidelines:

## Guideline Appraisal Tools (*Yao et al. 2022*)

- 1. AGREE II Instrument** (Appraisal of Guidelines for Research and Evaluation)
- 2. AGREE-GRS (AGREE-Global Rating Scale)**
- 3. iCAHE Guideline Quality Checklist** (International Centre for Allied Health Evidence).
- 4. NEATS instrument** (National Guideline Clearinghouse Extent of Adherence to Trustworthy Standards).
- 5. AGREE-REX (AGREE-Recommendations Excellence)**
- 6. PANELVIEW Instrument**



The screenshot shows the AGREE Tools website interface. At the top, there is a header with the AGREE logo and tagline "Advancing the science of practice guidelines". To the right of the logo is a search bar with a "Go" button. Below the header is a navigation menu with links: Home, About, AGREE Tools (highlighted), Research Projects, News, and My AGREE PLUS. The main content area is titled "AGREE Tools" and contains a list of tools with brief descriptions. On the right side, there are several highlighted boxes for specific tools: AGREE II Instrument, Training tools, Appraise guidelines, Guideline Reporting, and Follow us on Twitter.

**AGREE II**  
Advancing the science of practice guidelines

Yasser Arme / Logout

Search

Home About **AGREE Tools** Research Projects News My AGREE PLUS

**AGREE II**  
My AGREE PLUS  
AGREE GRS Instrument  
AGREE-REX Recommendation Excellence  
AGREE-HS Health Systems  
AGREE Reporting Checklist  
AGREE-S Reporting Checklist  
CheckUp  
Original AGREE Instrument  
Guideline Implementability for Decision Excellence Mode GUIDE-M

**AGREE Tools**  
A variety of tools have been developed to assist in the development, reporting and evaluation of practice guidelines and health system guidance. Each of the available tools listed below with a brief description of the tool and access to more information:

- **AGREE II** – Assesses the methodological rigour and transparency in which a practice guideline is developed and can be used to guide their development.
- **My AGREE PLUS** – An online AGREE II appraisal platform to conduct individual and group appraisal.
- **AGREE GRS** – A short item tool to evaluate the quality and reporting of practice guidelines.
- **AGREE-REX** – A companion to the AGREE II intended to guide the development, reporting and evaluation of the clinical credibility and implementability of practice guideline recommendations.
- **AGREE-HS** – Assesses the methodological rigour and transparency in which health system guidance documents are developed and can be used to guide their development and reporting.
- **Reporting Checklist** – A checklist based on the domains and items of the AGREE II intended to assist in the completeness of reporting in practice guidelines.
- **AGREE-S** – AGREE II extension for Surgical Interventions.
- **CheckUp** – This tool aims to evaluate the completeness of reporting in updated guidelines and inform reporting requirements.
- **Original AGREE Instrument** – The AGREE II replaces the original AGREE Instrument as the new and preferred tool for practice guideline

**AGREE II Instrument**  
Download the AGREE II

**Training tools**  
Learn how to apply the AGREE II through our training modules.

**Appraise guidelines**  
Appraise practice guidelines with the My AGREE PLUS online appraisal platform.

**Guideline Reporting**  
Apply the AGREE Reporting Checklist when reporting guidelines.

**Follow us on Twitter**  
Follow @AGREEScientific

# iCAHE Guideline Quality Checklist



# NEATS Tool



# PANELVIEW





# Moving from Evidence to Implementation



# Do CPGs Lead to Developing National Health Policies and Strategies?

- Many of the WHO guidelines have led to national policies.
- EBPM is not like EBM/guidelines
  - The focus remains on research (evidence synthesis) over policy impact
- New collaborations between scientists and policymakers are needed.







**CAPACITY**

**BUILDING**

# Moving from Evidence to Implementation

## Advocating for Institutional and Political Support

- ✓ There is a need for **national policies** that mandate evidence-based guidelines.
- ✓ Overcoming **resistance** from professional societies and industry influences.
- ✓ The role of advocacy groups and patient organizations in pushing for better guideline adoption.

# LEGITIMACY



# LEADERSHIP



# WHO Leadership Role

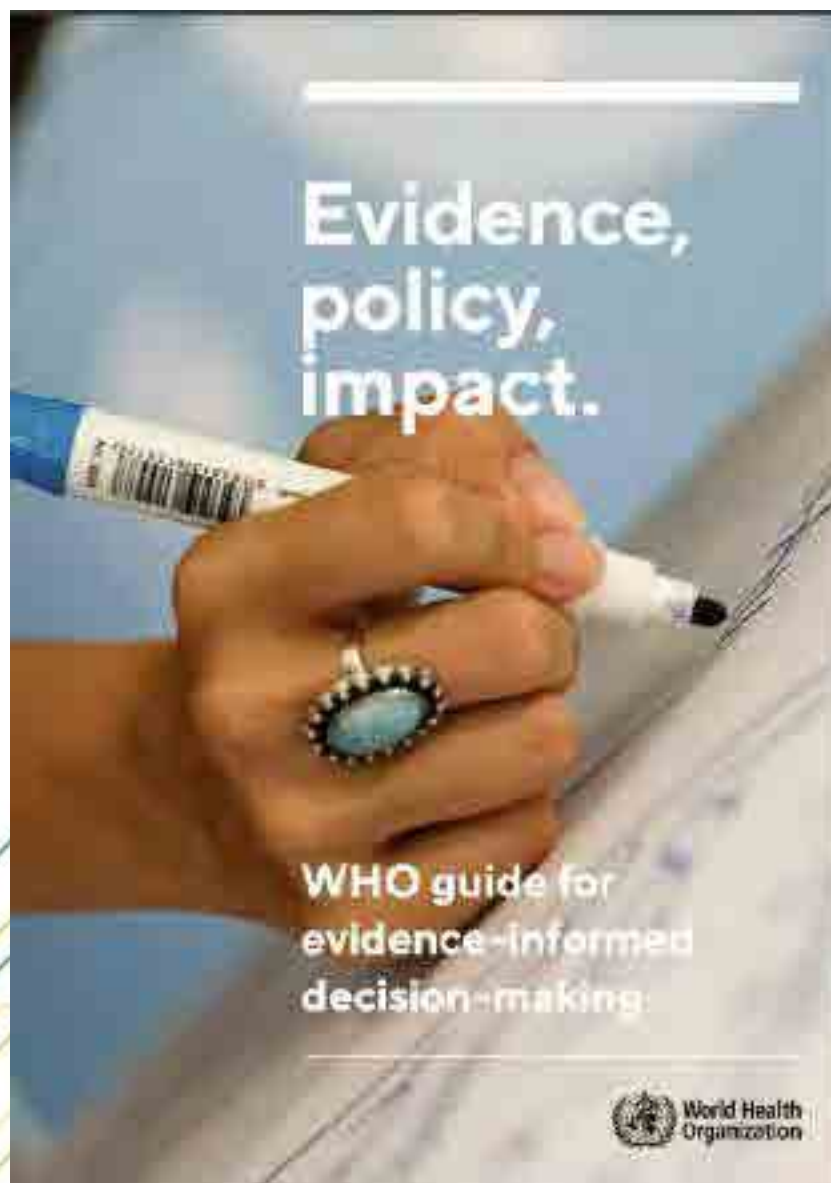
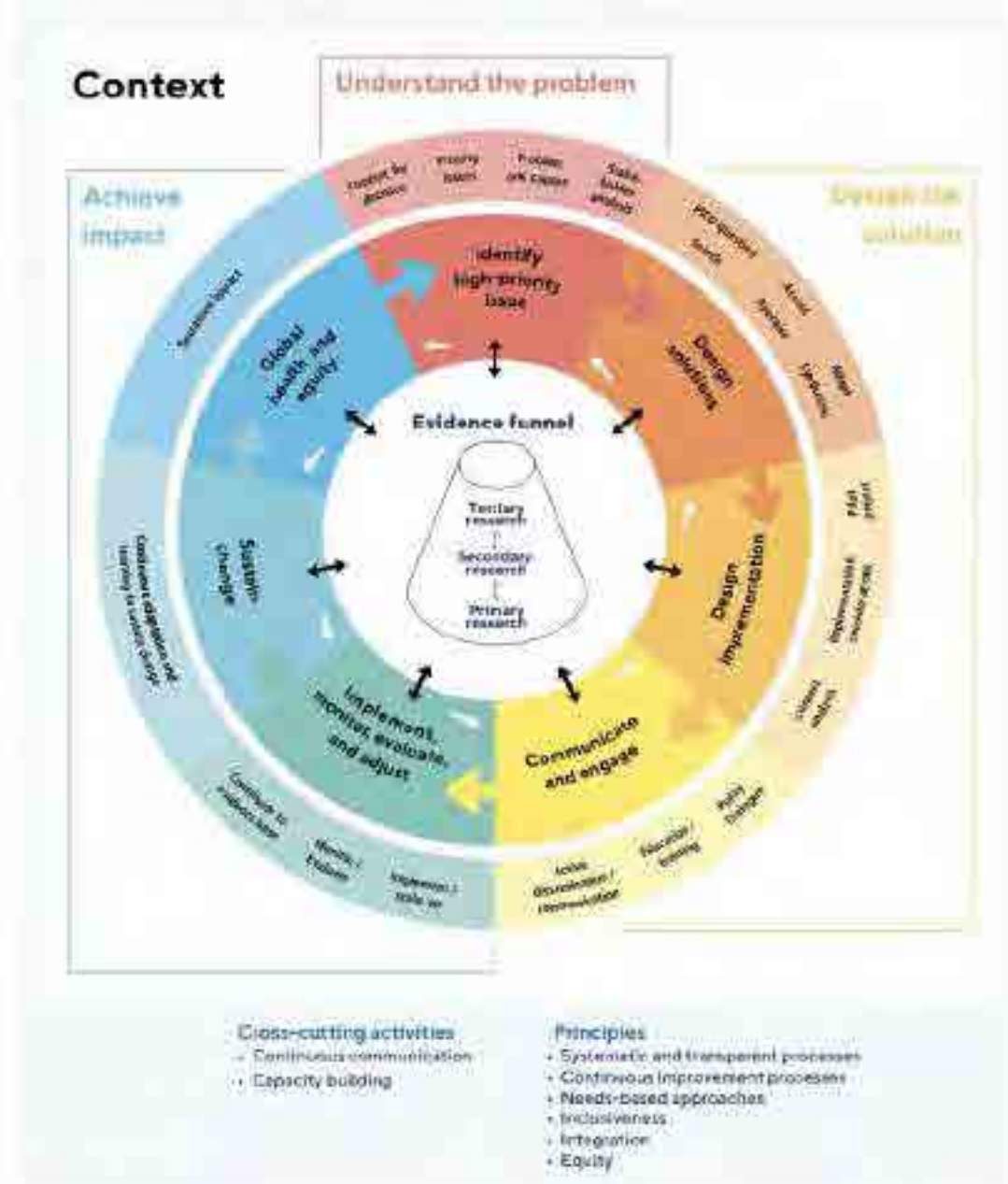


Fig. 2.2. "Evidence ecosystem for impact" framework\*



\*The framework includes the evidence funnel, the policy/action cycle, context, cross-cutting issues and principles



Organisation  
mondiale de la Santé  
BUREAU REGIONAL DE LA  
Méditerranée orientale



World Health  
Organization  
REGIONAL OFFICE FOR THE  
Eastern Mediterranean



منظمة  
الصحة العالمية  
المكتب الإقليمي لشرق المتوسط



قرار

## Resolution

**REGIONAL COMMITTEE FOR THE  
EASTERN MEDITERRANEAN**

**EM/RC66/R.5  
October 2019**

**Sixty-sixth Session  
Agenda item 3(d)**

**Developing national institutional capacity for evidence-informed policy-making  
for health**

The Regional Committee,

Having reviewed the technical paper on developing national institutional capacity for evidence-informed policy-making for health;<sup>1</sup>

## REGIONAL COM EASTERN MED

Sixty-sixth Session  
Agenda Item 3(d)

Developing nati

The Regional Comm

Having reviewed the  
policy-making for the

Recalling resolutions  
regarding the gap, ben  
for scaling up, most  
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in the evidence from

Recognizing the need  
health data systems;

Emphasizing the need  
Sustainable Develop

Recognizing the gap  
policy-making process

Emphasizing that ex  
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1. ENDORSES the  
policy-making of  
this institution;

2. URGES Member

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2.5 Establish and  
making;

2.6 Establish and  
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2.7 Ensure other  
interest in pol

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4.6 Strengthen in  
plans to estab  
policy-making

4.7 Enhance the  
national observ

4.8 Report on pro  
the Regional



### Annex 1. Framework for action to improve national institutional capacity for the use of evidence in health policy-making in the Eastern Mediterranean Region

Country categories	Country action	Support from WHO and other development partners
A. All countries	<ul style="list-style-type: none"> <li>Establish mechanisms to regulate and manage conflicts of interests in policy-making</li> <li>Enhance the capacity of the ministry of health planning department for critical appraisal of knowledge products and evidence synthesis reports (i.e. policy briefs, health technology assessments, guidelines and systematic reviews)</li> <li>Ensure access of the ministry of health to sources of research evidence for health (e.g. through the WHO HINARI programme)</li> <li>Improve cause of death reports and national observatory for national health indicators including surveillance reports</li> </ul>	<ul style="list-style-type: none"> <li>Provide technical support for selection of appropriate national institutional methods for evidence-informed policy-making</li> <li>Provide technical support for key national capacity-building for evidence-informed policy-making</li> <li>Support the development of policy briefs of regional importance</li> <li>Support the adaptation of global WHO guidelines in the regional context for high priority topics</li> <li>Support the development of multicountry or regional guidelines for high priority topics</li> <li>Establish a regional network of institutions that actively supports evidence-informed policy-making at the national level</li> </ul>
B. Countries with limited academic resources	<p>In addition to A:</p> <ul style="list-style-type: none"> <li>Ensure a minimum capacity (epidemiology and cost analysis) for development of policy reports</li> <li>Focus on adaptation of high priority evidence synthesis reports to the national setting</li> <li>Include resource funds for evidence-to-policy activities in donor requests to enhance national capacity</li> </ul>	<p>In addition to A:</p> <ul style="list-style-type: none"> <li>Support the development of policy briefs and adaptation of WHO guidelines for national priorities</li> </ul>
C. Countries affected by protracted or acute emergencies	<p>In addition to A:</p> <ul style="list-style-type: none"> <li>Ensure a minimum capacity (epidemiology and cost analysis) for development of policy reports</li> <li>Include resource funds for evidence-to-policy activities in donor requests to enhance national capacity</li> </ul>	<p>In addition to A and B:</p> <ul style="list-style-type: none"> <li>Support rapid processes for adaptation or development of policy synthesis products for the country's needs</li> </ul>
D. Countries with large academic capacity/resources and small populations	<p>In addition to A:</p> <ul style="list-style-type: none"> <li>Establish programmes for national health technology assessments and guideline adaptation/development in collaboration with academic institutions</li> <li>Establish formalized evidence-to-policy processes, including for developing policy briefs and conducting policy dialogues</li> <li>Establish an evidence-to-policy team within the ministry of health including all key areas of expertise</li> <li>Develop plans for mid-term (e.g. 10 year) national household surveys</li> <li>Establish an effective cancer registry and pharmaco-vigilance programme</li> </ul>	<p>As in A</p>
E. Countries with large academic capacity/resources and large populations	<p>In addition to A and D:</p> <ul style="list-style-type: none"> <li>Establish institutes affiliated with the ministry of health (e.g. NIPH; NHR; NICE) tasked with commissioning, developing, appraising or adapting national guidelines, health technology assessments and policy briefs</li> <li>Enhance the capacity of academic institutions to cover all areas needed for evidence-to-policy processes</li> </ul>	<p>As in A</p>

NIPH: National Institute for Public Health; NHR: National Institute for Health Research; NICE: National Institute of Health and Clinical Excellence



## Framework for action to improve national institutional capacity for the use of evidence in health policy-making in the Eastern Mediterranean Region

Country categories	Country action	Support from WHO and other development partners
A All countries	<ul style="list-style-type: none"> <li>Establish mechanisms to regulate and manage conflicts of interests in policy-making</li> <li>Enhance the capacity of the ministry of health planning department for critical appraisal of knowledge products and evidence synthesis reports (i.e. policy briefs, health technology assessments, guidelines and systematic reviews)</li> <li>Ensure access of the ministry of health to sources of research evidence for health (e.g. through the WHO HINARI programme)</li> <li>Improve cause of death reports and national observatory for national health indicators including surveillance reports</li> </ul>	<ul style="list-style-type: none"> <li>Provide technical support for selection of appropriate national institutional methods for evidence-informed policy-making</li> <li>Provide technical support for key national capacity-building for evidence-informed policy-making</li> <li>Support the development of policy briefs of regional importance</li> <li>Support the adaptation of global WHO guidelines to the regional context for high priority topics</li> <li>Support the development of multicountry or regional guidelines for high priority topics</li> <li>Establish a regional network of institutions that actively supports evidence-informed policy-making at the national level</li> </ul>
B Countries with limited academic resources	<p>In addition to A:</p> <ul style="list-style-type: none"> <li>Ensure a minimum capacity (epidemiology and cost analysis) for development of policy reports</li> <li>Focus on adaptation of high priority evidence synthesis reports to the national setting</li> <li>Include resource funds for evidence-to-policy activities in donor requests to enhance national capacity</li> </ul>	<p>In addition to A:</p> <ul style="list-style-type: none"> <li>Support the development of policy briefs and adaptation of WHO guidelines for national priorities</li> </ul>
C Countries affected by protracted or acute emergencies	<p>In addition to A:</p> <ul style="list-style-type: none"> <li>Ensure a minimum capacity (epidemiology and cost analysis) for development of policy reports</li> <li>Include resource funds for evidence-to-policy activities in donor requests to enhance national capacity</li> </ul>	<p>In addition to A and B:</p> <ul style="list-style-type: none"> <li>Support rapid processes for adaptation or development of policy synthesis products for the country's needs</li> </ul>
D Countries with large academic capacity/resources and small populations	<p>In addition to A:</p> <ul style="list-style-type: none"> <li>Establish programmes for national health technology assessments and guideline adaptation/development in collaboration with academic institutions</li> <li>Establish formalized evidence-to-policy processes, including for developing policy briefs and conducting policy dialogues</li> <li>Establish an evidence-to-policy team within the ministry of health including all key areas of expertise</li> <li>Develop plans for mid-term (e.g. 10-year) national household surveys</li> <li>Establish an effective cancer registry and pharmacovigilance programme</li> </ul>	<p>As in A</p>  
E Countries with large academic capacity/resources and large populations	<p>In addition to A and D:</p> <ul style="list-style-type: none"> <li>Establish institutes affiliated with the ministry of health (e.g. NIPH, NIHR, NICE) tasked with commissioning, developing, appraising or adapting national guidelines, health technology assessments and policy briefs</li> <li>Enhance the capacity of academic institutions to cover all areas needed for evidence-to-policy processes</li> </ul>	<p>As in A</p>

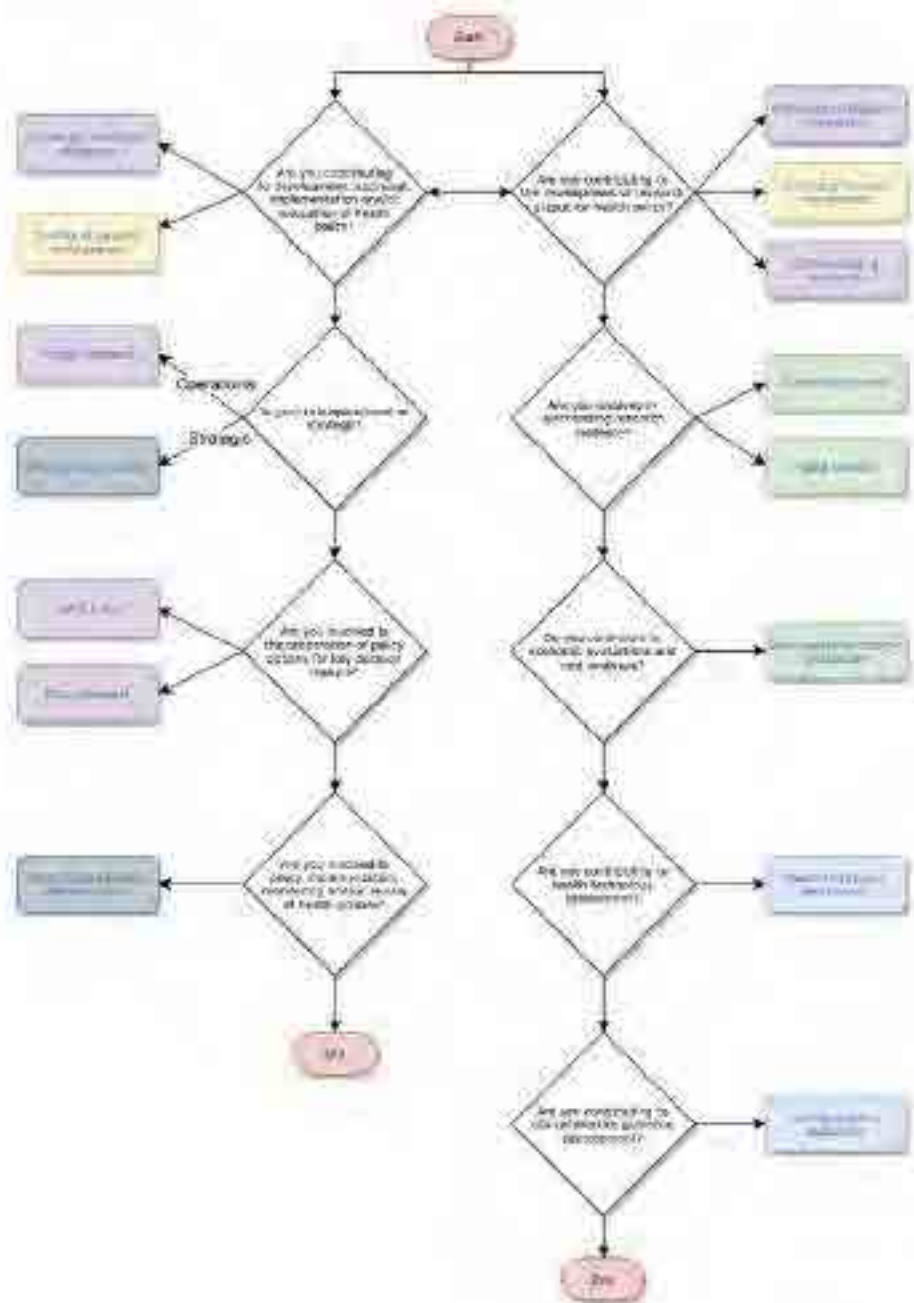
NIPH: National Institute for Public Health; NIHR: National Institute for Health Research; NICE: National Institute of Health and Clinical Excellence

## Integrated multi-concept approach to evidence-informed policy-making for health



## Sources of evidence and knowledge products to address policy questions

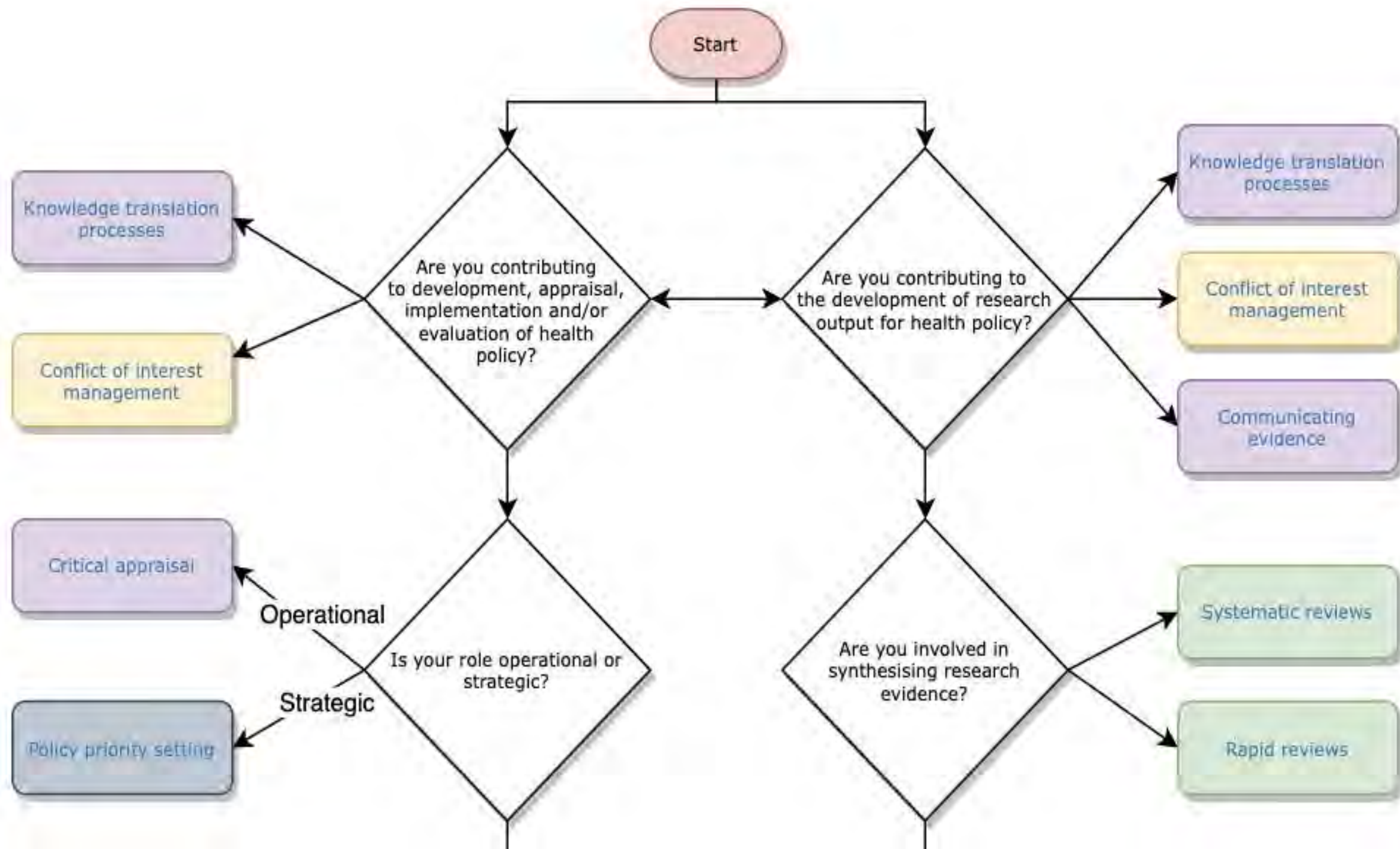
Main policy question	Usual sources of evidence	Main knowledge products that address the policy question
What are the main priority issues/problems for decision-making?	Household and facility surveys Surveillance studies Routine health information Cause of death and burden of disease studies	Policy briefs Data fact sheets Health information observatories
What can be done (potential policy interventions and their safety and effectiveness)?	Systematic reviews of interventional studies Interventional studies Surveillance studies (for safety)	Clinical or public health guidelines Health technology assessment studies Policy briefs
Are the policy options cost-effective?	Systematic reviews of cost-effectiveness studies Economic modelling and cost analyses	Health technology assessment studies Clinical or public health guidelines Policy briefs
How feasible are the policy options (sustainability, affordability, acceptability and implementation strategies)?	Systematic reviews of qualitative studies Economic modelling and cost analyses Qualitative studies Process evaluations User and provider surveys	Policy briefs Policy dialogue Health technology assessment studies Clinical or public health guidelines

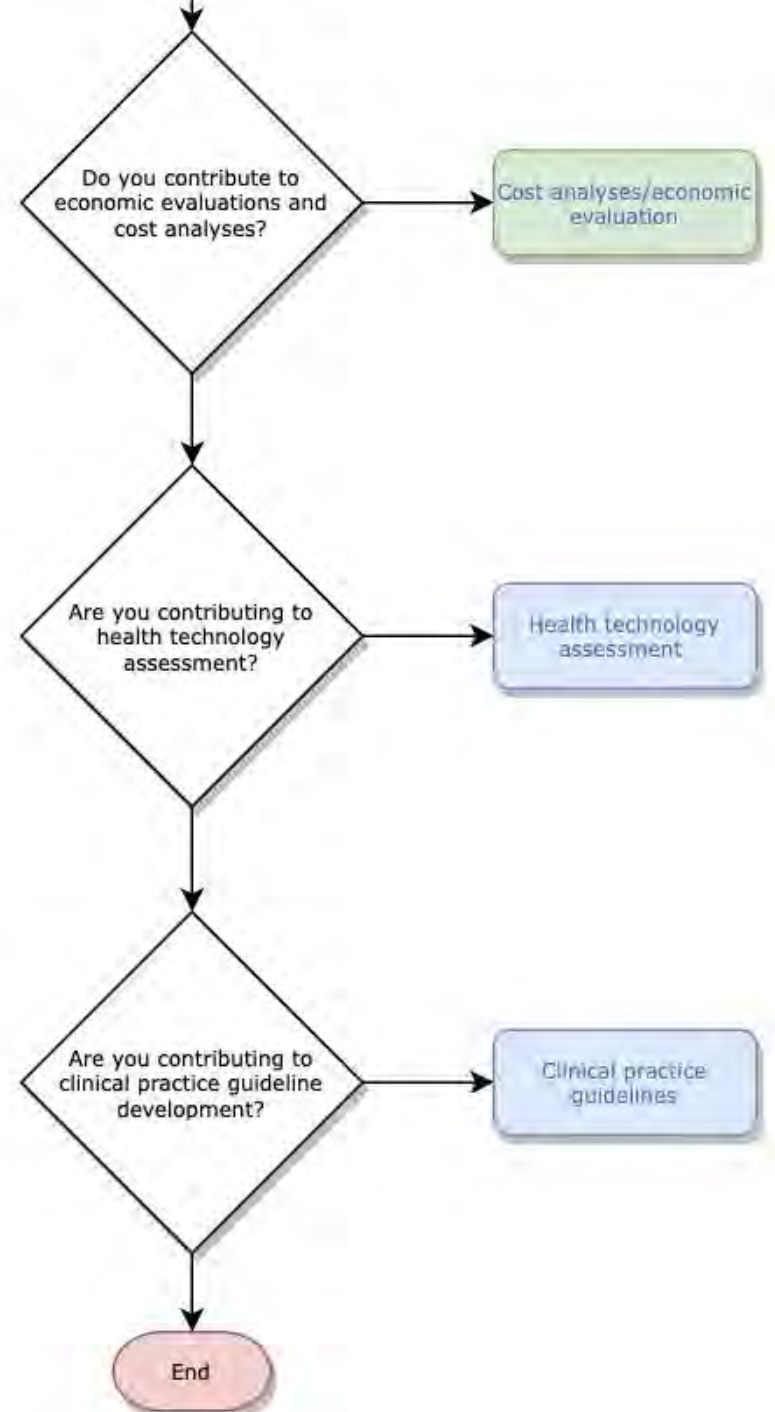
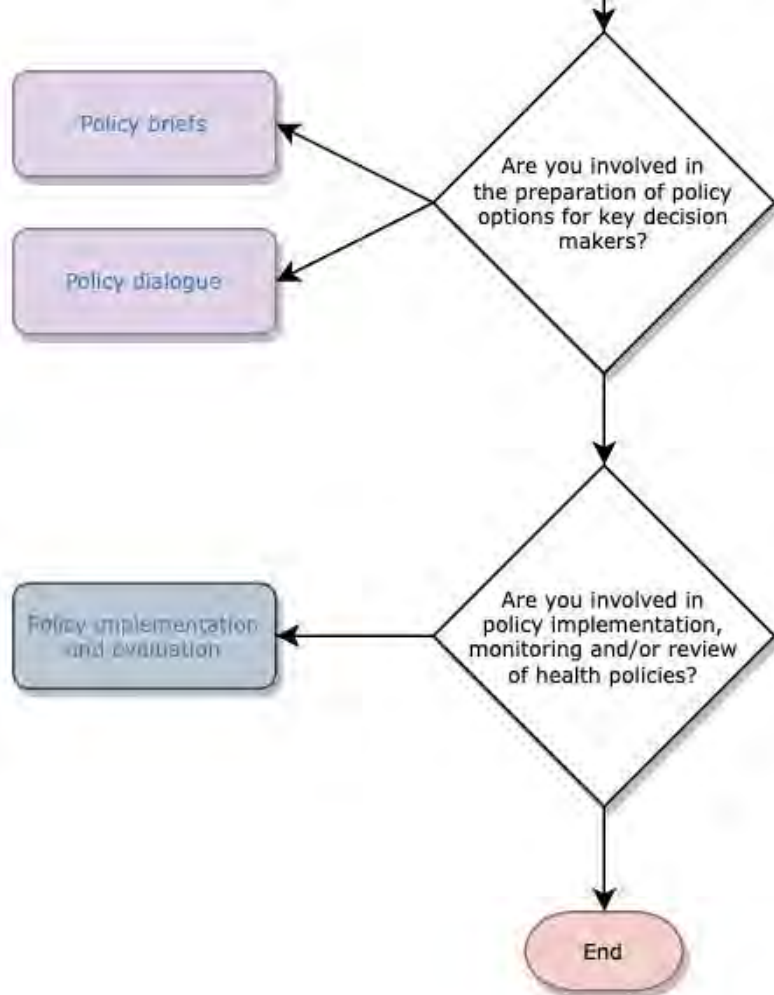


## Evidence-informed policy-making (EIPM) training package



WHO EMRO Training Package





# Regional action plan

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*for the implementation of the framework for action to improve national institutional capacity for the use of evidence in health policy-making in the Eastern Mediterranean Region*



World Health  
Organization

REGIONAL OFFICE FOR THE Eastern Mediterranean

# Regional action plan

*for the implementation of the framework for action to improve national institutional capacity for the use of evidence in health policy-making in the Eastern Mediterranean Region*

(2020–2024)

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## Evidence for Action

Available evidence

WHO and PAHO  
Guidelines

## PAHO databases

Recommendations and



### PIE

Compilation of documents that contribute to health policy decision-making based on the best available evidence. Training, knowledge exchange processes between managers, policymakers, researchers, and civil society representatives in the management of services and systems are included.

[Visit](#)



### BRISA

Americas regional database for health technology assessment reports.

[Visit](#)



### Lilacs

Lilacs is the most important and comprehensive database in Latin America and the Caribbean. It gathers more than 8 thousand records of peer-reviewed journal articles, theses and dissertations, government documents, conference proceedings and books, published since 1982.

[Visit](#)



### BIGG-REC

BIGG-REC is the database that collect all clinical, public health, and health policy recommendations issued by WHO and that follow the GRADE system, organized according to the SDG-3 targets

[Visit](#)



# Global Coalition for Evidence Launched

## *Prague, September 2024*



WORLD  
EVIDENCE-BASED  
HEALTHCARE DAY  
20 OCTOBER

ebhc

# WORLD EVIDENCE-BASED HEALTHCARE DAY 20 OCT 2024

#WorldEBHCDay



2024 CAMPAIGN



TAKE ACTION










RESOURCES

**2024 CAMPAIGN: HEALTH AND BEYOND: FROM EVIDENCE TO ACTION**

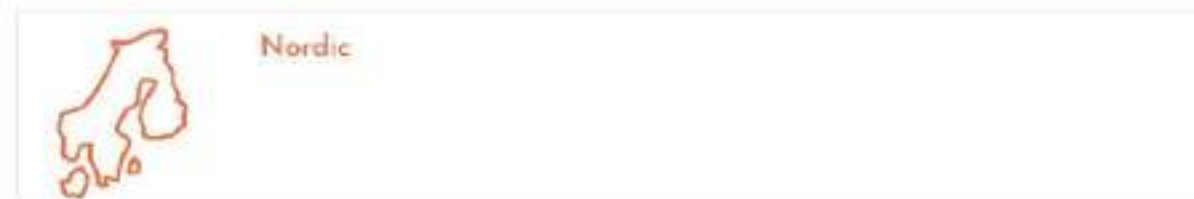
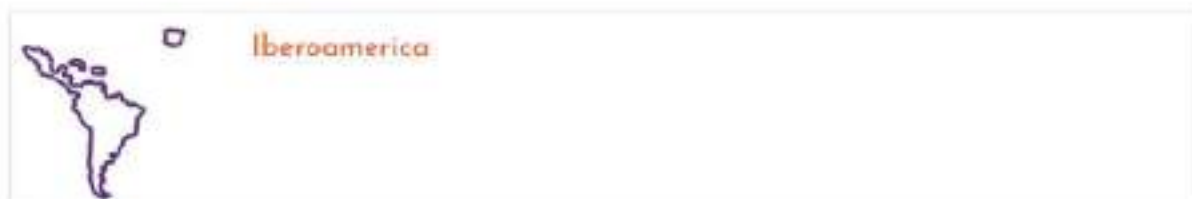
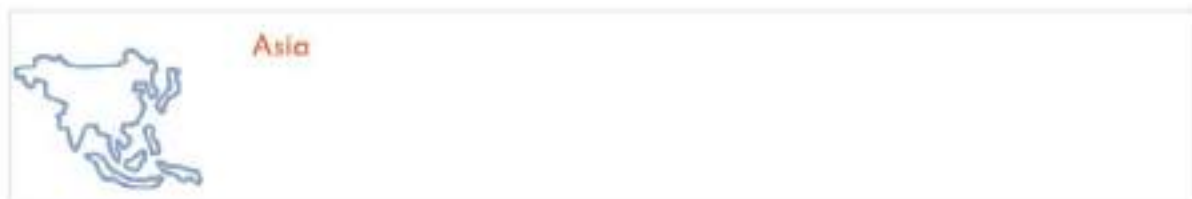
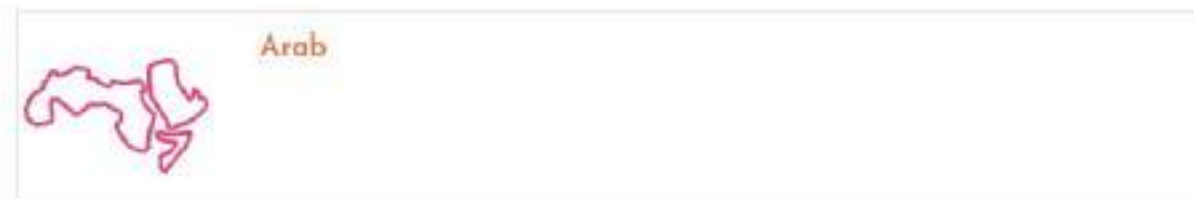
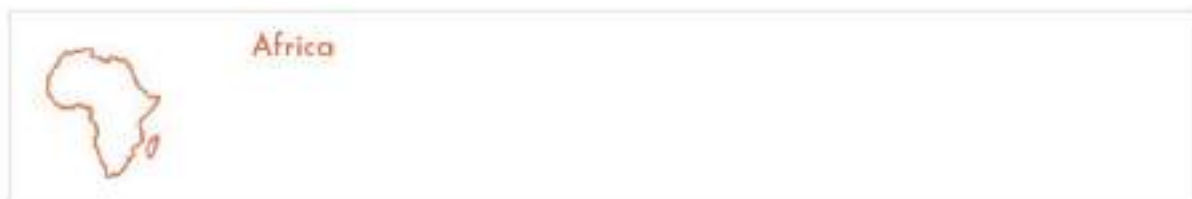
# Welcome to GIN

The global network supporting evidence-based  
guideline development and implementation

# 16 GIN Working Groups (WGs)

	AID Knowledge		Accelerated Guide		Guidelines in Medical		Implementation
	Adaptation		Artificial Intelligence		LMIC		Multimorbidity
	GIN Public		GIN Tech		Overdiagnosis		Performance Measures
	GINAHTA		Guidelines Collaboration		Traditional Medicine		Updating and Living Guidelines

# 7 GIN Regional Communities (RCs)



 Description

## About GIN Arab

Welcome to the GIN Arab Regional Community web pages. With the movement towards evidence-based health care and accreditation of health care institutions, many of the Arab countries have become increasingly interested in clinical practice guidelines as the way to provide evidence-based health care and thereby satisfying the accreditation standards. GIN, as the international body that connects all guidelines developers, implementers, researchers, students, and other stakeholders, has a pivotal role to play in pushing forwards this guideline activity throughout the region.

The **Arab states** occupy an area stretching from the **Atlantic Ocean** in the west to the **Arabian Sea** in the east, and from the **Mediterranean Sea** in the north to the **Horn of Africa** and the **Indian Ocean** in the southeast. The Arab world has a combined population of around 422 million people, with over half under 25 years of age. The 22 Arab countries (members of the Arab league) in alphabetical order are: Algeria, Bahrain, Comoros, Djibouti, Egypt, Iraq, Jordan, Kuwait, Lebanon, Libya, Mauritania, Morocco, Oman, Palestine, Qatar, Saudi Arabia, Somalia, Sudan, Syria, Tunisia, United Arab Emirates and Yemen. Despite the similarities and differences in the disease morbidity patterns and health care systems in these countries, the use of clinical practice guidelines has never been a feature in the delivery of health care resulting in a wide variation of practice.

# Aims & Objectives

1. Provide a **network** for Arab guideline users, developers, and other stakeholders.
2. To form **partnerships** and discuss regional guideline issues.
3. Enhance and promote relationships between GIN and the Arab guideline community.
4. Collaborate with regional and international clinical guidelines stakeholders to facilitate local adaptation of guidelines.
5. Provide an ongoing framework to translate significant research findings into appropriate policies and practices.
6. Expand the **GIN membership** by engaging individuals and organizations in the Arab world.
7. Interact with GIN groups to encourage feedback and avoid duplicating efforts.
8. Organize and promote regional events and an annual satellite conference that is non-competitive with the annual GIN conference.
9. Improve the efficiency and effectiveness of evidence-based guideline development, adaptation, dissemination, and implementation in the Arab world.

workshops to teach its methodologies and tools.

# GIN Arab Regional Community: *Great Expectations!*



A close-up photograph of a pair of hands gently cradling a small, colorful globe of the Earth. The globe shows continents in green and yellow and oceans in blue. The hands are positioned as if protecting or nurturing the planet. The background is a soft, out-of-focus brown.

# Overall Global Impact of EBM Initiatives

# Overall Global Impact of EBM Initiatives

- ✓ Improved Patient Outcomes
- ✓ Harmonization of Guidelines
- ✓ Health Equity
- ✓ Reduction in Healthcare Costs
- ✓ Partnerships and coalitions

# Voluntary basis?!



Is This Enough?





Challenges Remain...

# Challenges Faced By Global EBM Initiatives

1. Variability in Healthcare Systems and Resources
2. Limited Access to Evidence and Guidelines
3. Cultural and Contextual Differences
4. Political and Regulatory Challenges
5. Resistance to Change and Professional Autonomy

# Challenges Faced By Global EBM Initiatives

6. Updating Guidelines and Keeping Pace with New Evidence
7. Fragmentation and Lack of Coordination
8. Implementation and Adherence Challenges
9. Sustainability and Long-Term Adoption
10. Technological Barriers

# Challenges Faced by EMR/MENA Countries: Evidence Syntheses

1. Limited access to quality regional research
2. Integrating real-world data
3. Improving transparency in evidence appraisal
4. Underrepresentation of the EMR population in global research
5. Variability in research capacity and data reporting
6. Enhancing global collaboration in CPG development

# Common Challenges in EMR Guidelines Quality EMR/MENA

- ☐ Guidelines often lack methodological transparency.
- ☐ Heavy reliance on expert consensus rather than systematic evidence synthesis.
- ☐ Limited training in quality assessment tools (for studies or for guidelines).

ORIGINAL RESEARCH  [Almazrou SH](#) et al 2021 appraised 61 CPGs, **AGREE II Domain 3 lowest domain**

**Assessing the Quality of Clinical Practice Guidelines in the Middle East and North Africa (MENA) Region: A Systematic Review**

<https://doi.org/10.2147/JMDH.S284689>

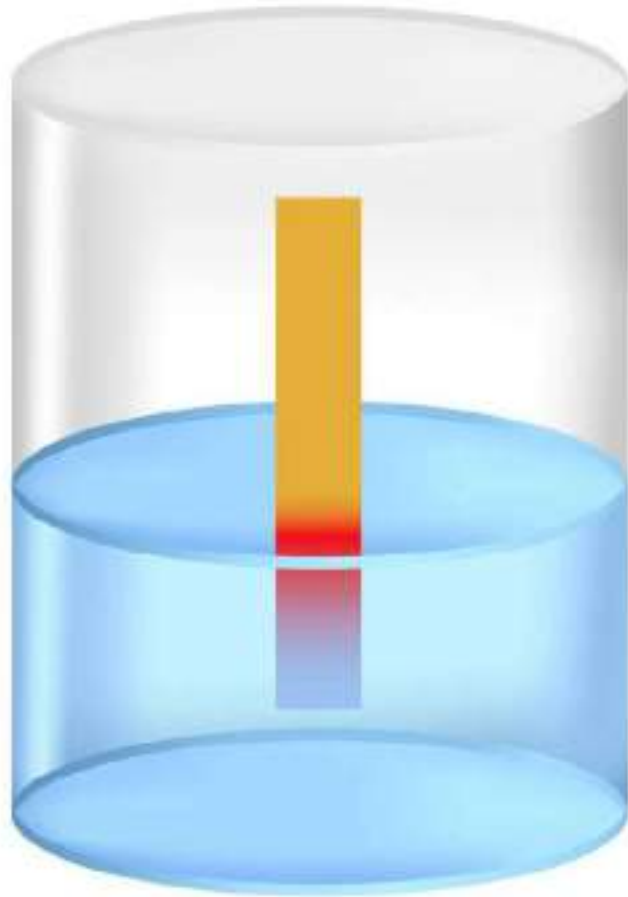
# Political and Economic Barriers to Evidence-Based Guidelines in EMR/MENA

- **Resistance to change** from policymakers and healthcare professionals
- **Political instability and funding constraints.**
- **The role of international organizations and donors in facilitating guideline implementation.**

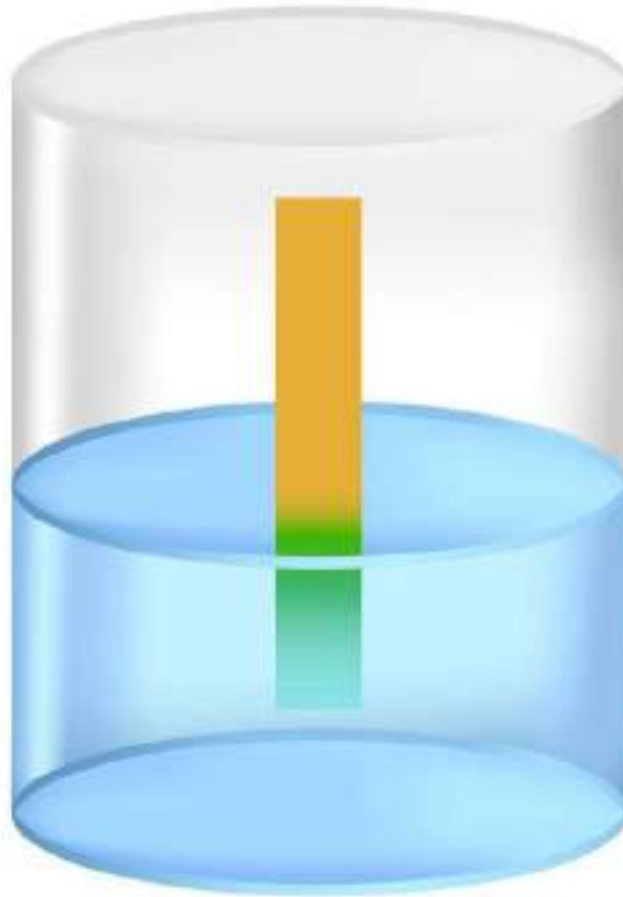


# PH PAPER INDICATORS

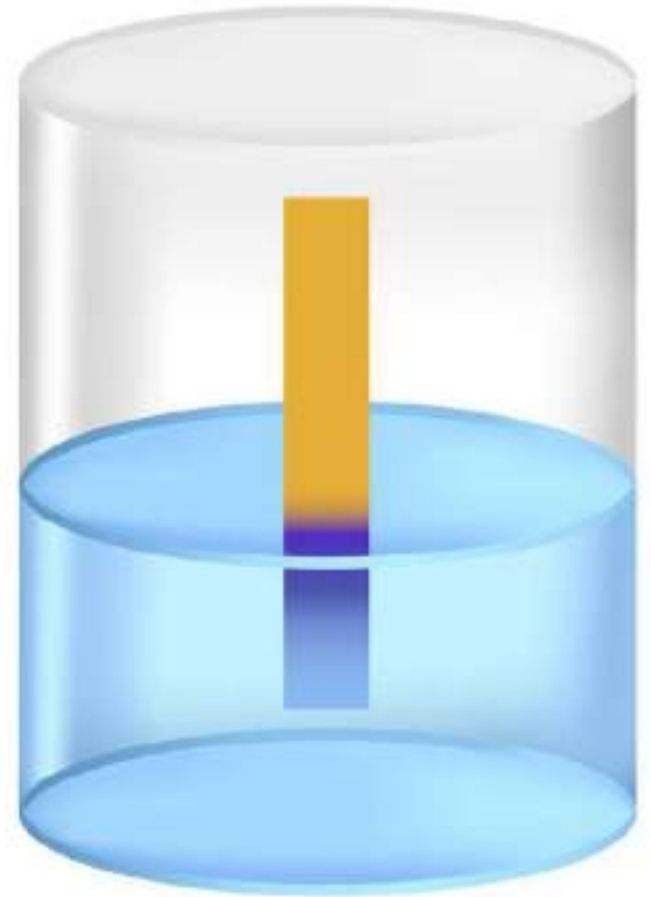
**Acidic Solution**



**Neutral Solution**



**Basic Solution**



# COVID-19 and EIPM



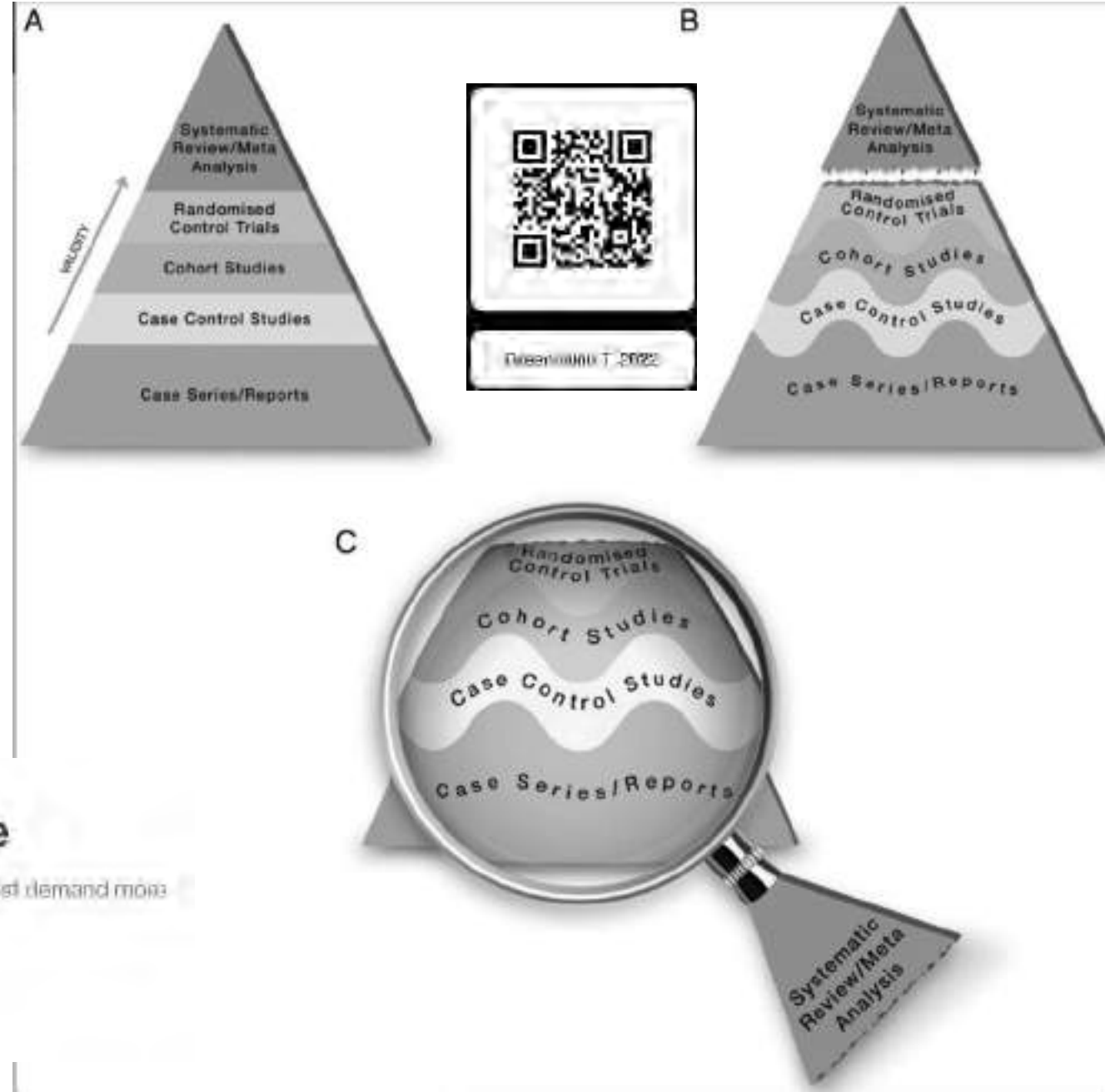
THE MUNRO REPORT

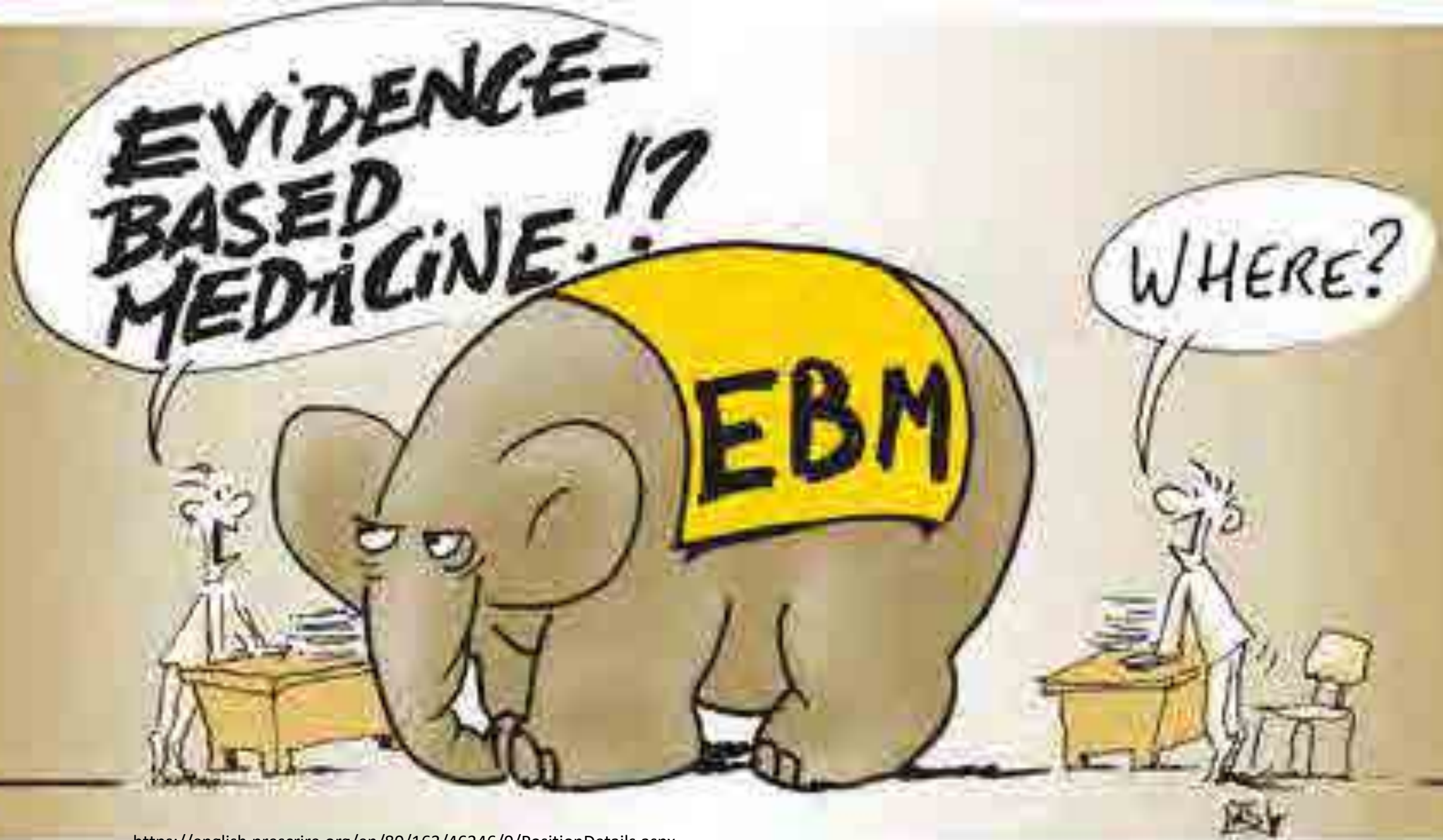
## The Pandemic Evidence Failure

We did so much, under such uncertainty, and learnt so little. We must demand more and do better.



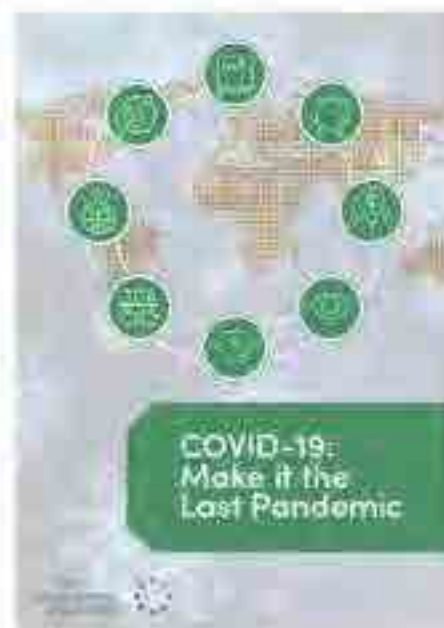
ALASDAIR MUNRO  
JUL 30, 2022







The Independent Panel for Pandemic Preparedness and Response



The Independent Panel for Pandemic Preparedness and Response was Co-Chaired by Her Excellency Ellen Johnson Sirleaf and the Right Honourable Helen Clark.

The Independent Panel began its work in September 2020, and submitted its main report, [COVID-19: Make it the Last Pandemic](#), to the World Health Assembly in May 2021.

The report contained the Panel's findings and recommendations for action to curb the COVID-19 pandemic and to ensure that any future infectious disease outbreak would not become another catastrophic pandemic.

Following the release of the main report, the Co-Chairs and Panel members continued to support discussions focussed on implementing their package of recommendations.

In November 2021, the former Co-Chairs released a six-month accountability report, entitled [Losing Time: End this Pandemic and Secure the Future](#).

In May 2022, the former Co-Chairs released a one-year assessment report, [Transforming or Tinkering? Inaction lays the groundwork for another pandemic](#).

In May 2023, the former Co-Chairs released [A Road Map](#)



*New pandemic threats are inevitable, but pandemics are a political choice.*

## A road map for a world protected from pandemic threats

H.E. Ellen Johnson Sirleaf  
Rt Hon. Helen Clark

May 2023

### Contents

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# G20 High Level Independent Panel on Financing the Global Commons for Pandemic Preparedness and Response

[Terms of Reference](#)

[Members](#)

A G20 High Level Independent Panel (HLIP) on Financing the Global Commons for Pandemic Preparedness and Response was established on 26 January 2021.

# A GLOBAL DEAL FOR OUR PANDEMIC AGE

Financing the  
Global Commons for  
PANDEMIC  
PREPAREDNESS  
AND RESPONSE

REPORT OF THE  
G20 HIGH-LEVEL  
INDEPENDENT  
PANEL



## The Lancet Commission on lessons for the future COVID-19 pandemic

Report of the Lancet Commission on lessons for the future COVID-19 pandemic. The Commission was established by the Lancet Commission on lessons for the future COVID-19 pandemic. The Commission was established by the Lancet Commission on lessons for the future COVID-19 pandemic. The Commission was established by the Lancet Commission on lessons for the future COVID-19 pandemic.

### COVID-19 response: a massive global failure

Widespread failures at multiple levels worldwide have led to millions of preventable deaths and a reversal in progress towards sustainable development for many countries.



At a national level, most governments...

When it is prepared and unable to adequately respond

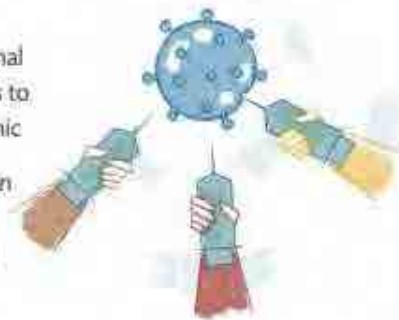
When it is slow in their response to the outbreak of SARS-CoV-2

When it is slow in their response to the outbreak of SARS-CoV-2

## The Lancet COVID-19 Commission makes 11 recommendations in three key areas of interest

### Practical steps to control and understand the current pandemic

- » Establish global and national vaccination-plus strategies to end the COVID-19 pandemic
- » An intensified investigation into possible origins of SARS-CoV-2, both natural and laboratory-related



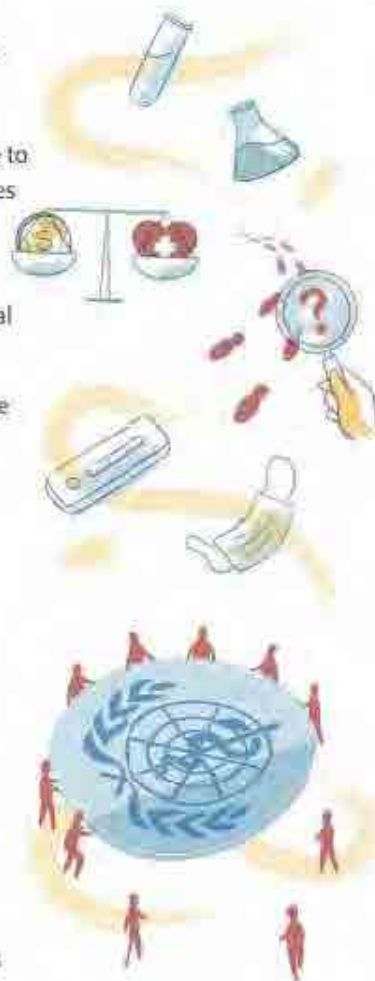
### Necessary investments to strengthen the defence against future pandemics

- » Strengthen national health systems and increase investments in primary health care and public health
- » National pandemic preparedness plans
- » Financing for sustainable development and green recovery plans



### Ambitious proposals to enhance multilateralism

- » Maintain WHO as the lead institution for the response to emerging infectious diseases
- » Establish a global pandemic agreement and strengthen the International Health Regulations
- » Reform of WHO governance
- » Regulations for the prevention of pandemics
- » G20 support for finance, research and development, and the production capacities of low-income and middle-income countries
- » New Global Health Fund to ensure Sustainable Development Goal 3 (Health for All), universal health coverage, and functioning health systems




Illustrations by Elfy Chiang

Read the full Lancet COVID-19 Commission for more details

[Cochrane reviews](#) ▼[Searching for trials](#) ▼[Clinical Answers](#) ▼[About](#) ▼[Help](#) ▼[Cochrane Database of Systematic reviews](#) [Review - Intervention](#)

# Physical interventions to interrupt or reduce the spread of respiratory viruses

Tom Jefferson, Liz Dooley, Eliana Ferroni, Lubna A Al-Ansary, Mieke L van Driel, Ghada A Bawazeer, Mark A Jones, Tammy C Hoffmann, Justin Clark, Elaine M Beller, Paul P Glasziou,  John M Conly [Authors' declarations of interest](#)

Version published: 30 January 2023 [Version history](#)

<https://doi.org/10.1002/14651858.CD006207.pub6> 

[Collapse all](#) [Expand all](#)

## Abstract

Available in [English](#) | [Español](#) | [فارسی](#) | [Français](#) | [ภาษาไทย](#)

## Data collection and analysis

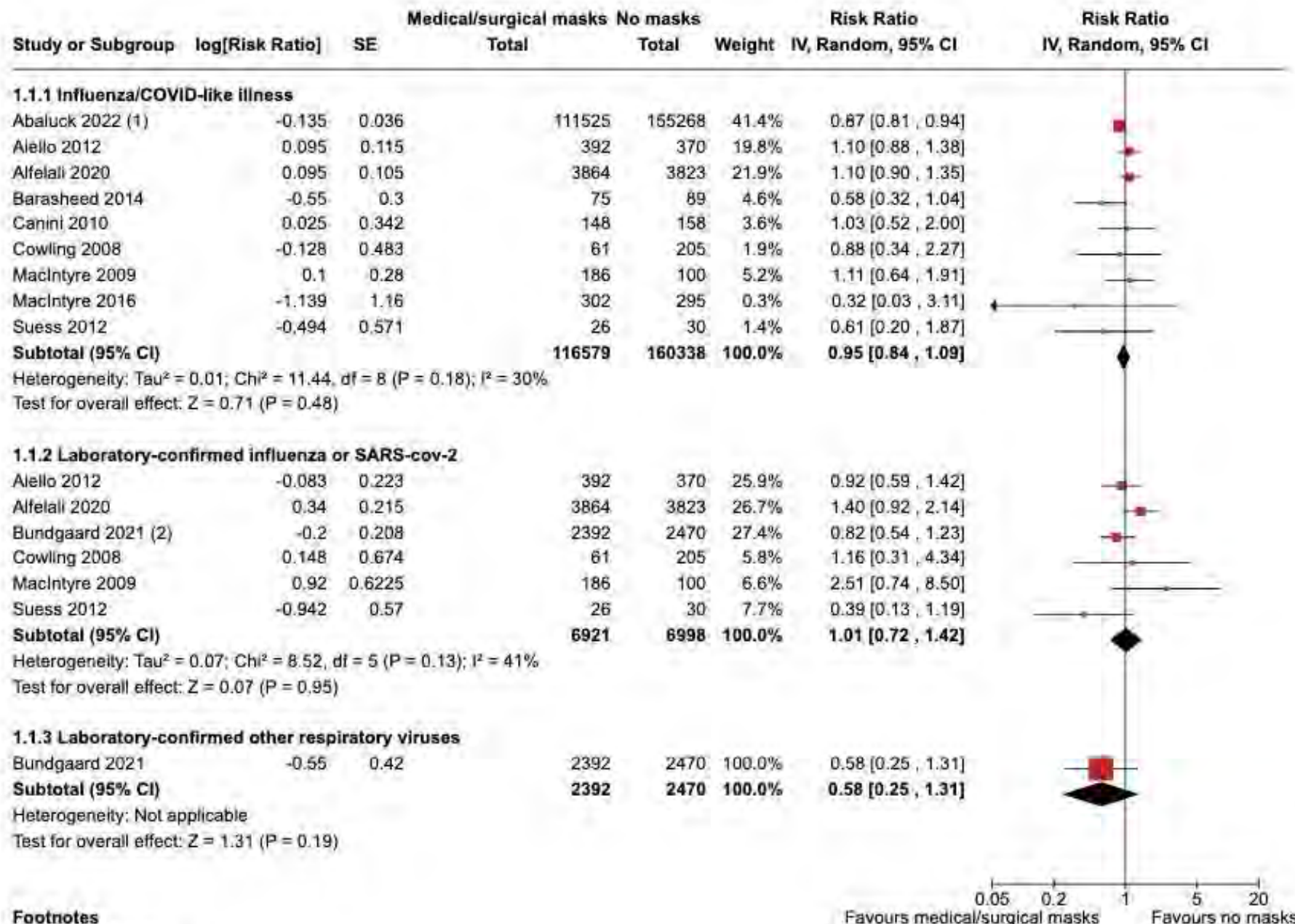
We used standard Cochrane methodological procedures.

## Main results

We included 11 new RCTs and cluster-RCTs (610,872 participants) in this update, bringing the total number of RCTs to 78. Six of the new trials were conducted during the COVID-19 pandemic; two from Mexico, and one each from Denmark, Bangladesh, England, and Norway. We identified four ongoing studies, of which one is completed, but unreported, evaluating masks concurrent with the COVID-19 pandemic.

Many studies were conducted during non-epidemic influenza periods. Several were conducted during the 2009 H1N1 influenza pandemic, and others in epidemic influenza seasons up to 2016. Therefore, many studies were conducted in the context of lower respiratory viral circulation and transmission compared to COVID-19. The included studies were conducted in heterogeneous settings, ranging from suburban schools to hospital wards in high-income countries; crowded inner city settings in low-income countries; and an immigrant neighbourhood in a high-income country. Adherence with interventions was low in many studies.

The risk of bias for the RCTs and cluster-RCTs was mostly high or unclear.



#### Footnotes

(1) Covid-like-illness

(2) SARS-cov-2

## Authors' conclusions

The high risk of bias in the trials, variation in outcome measurement, and relatively low adherence with the interventions during the studies hampers drawing firm conclusions. There were additional RCTs during the pandemic related to physical interventions but a relative paucity given the importance of the question of masking and its relative effectiveness and the concomitant measures of mask adherence which would be highly relevant to the measurement of effectiveness, especially in the elderly and in young children.

There is uncertainty about the effects of face masks. The low to moderate certainty of evidence means our confidence in the effect estimate is limited, and that the true effect may be different from the observed estimate of the effect. The pooled results of RCTs did not show a clear reduction in respiratory viral infection with the use of medical/surgical masks. There were no clear differences between the use of medical/surgical masks compared with N95/P2 respirators in healthcare workers when used in routine care to reduce respiratory viral infection. Hand hygiene is likely to modestly reduce the burden of respiratory illness, and although this effect was also present when ILI and laboratory-confirmed influenza were analysed separately, it was not found to be a significant difference for the latter two outcomes. Harms associated with physical interventions were under-investigated.

There is a need for large, well-designed RCTs addressing the effectiveness of many of these interventions in multiple settings and populations, as well as the impact of adherence on effectiveness, especially in those most at risk of ARIs.

## ORIGINAL ARTICLE

# International alliance and AGREE-ment of 71 clinical practice guidelines on the management of critical care patients with COVID-19: a living systematic review

Yasser S. Amer<sup>a,b,c,1</sup>, Maher A. Titi<sup>b,d,1</sup>, Mohammad W. Godah<sup>e,2</sup>, Hayfaa A. Wahabi<sup>b,f</sup>,  
Layal Hneiny<sup>g,4</sup>, Manal Mohamed Abouelkheir<sup>h,5</sup>, Muddathir H. Hamad<sup>i,1</sup>,  
Ghada Metwally ElGohary<sup>j,k,3</sup>, Mohamed Ben Hamouda<sup>l,6</sup>, Hella Ouertatani<sup>m,6</sup>,  
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Sarah Jayne Liptrott<sup>u,12</sup>, Niccolò Frungillo<sup>u,13</sup>, Amr A. Jamal<sup>b,i,3</sup>, Sami A. Almustanyir<sup>v,14</sup>,  
Newman Ugochukwu Dieyi<sup>w,15</sup>, John Powell<sup>x,y,16,17</sup>, Katrina J. Hon<sup>w,z,18</sup>,  
Rasmieh Alzeidan<sup>aa,3</sup>, Majduldeen Azzo<sup>bb,10</sup>, Sara Zambrano-Rico<sup>cc,20</sup>,  
Paulina Ramirez-Jaramillo<sup>cc,20</sup>, Ivan D. Florez<sup>dd,ee,21,\*</sup>

## COMMENTARY

# Guidelines developed under pressure. The case of the COVID-19 low-quality “rapid” guidelines and potential solutions

Ivan D. Florez<sup>a,b,c,\*</sup>, Yasser Sami Amer<sup>c,d,e,f</sup>, Michael McCaul<sup>g</sup>, John N Lavis<sup>h,i</sup>,  
Melissa Brouwers<sup>j</sup>

<sup>a</sup>Department of Pediatrics, Universidad de Antioquia, Medellín, Colombia

<sup>b</sup>School of Rehabilitation Science, McMaster University, Hamilton, Canada

<sup>c</sup>Pediatrics Department, King Khalid University Hospital, King Saud University Medical City, Riyadh, Saudi Arabia

<sup>d</sup>Clinical Practice Guidelines Unit, Quality Management Department, King Saud University Medical City, Riyadh, Saudi Arabia

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<sup>g</sup>Centre for Evidence-based Health Care, Division of Epidemiology and Biostatistics, Department of Global Health, Stellenbosch University, South Africa

<sup>h</sup>McMaster Health Forum and Department of Health Research Methods, Evidence and Impact, McMaster University, Hamilton, Ontario, Canada

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<sup>j</sup>School of Epidemiology and Public Health, University of Ottawa, Ottawa, Ontario, Canada

Received 25 October 2021; Accepted 6 November 2021; Available online 13 November 2021

# Global Commission on Evidence

## *To Address Societal Challenges*

Global Commission on Evidence  
To Address Societal Challenges

### The Evidence Commission

A wake-up call and path forward  
on intermediaries and impact on



Global Commission on Evidence to Address Societal Challenges

Global Commission on Evidence  
To Address Societal Challenges

### Evidence Commission update

Strengthening domestic evidence-support systems,  
enhancing the global evidence architecture,  
putting evidence at the centre of everyday life



Global Commission on Evidence to Address Societal Challenges

2023

Global Commission on Evidence  
To Address Societal Challenges

### Global Evidence Commission update 2024

Building momentum in strengthening domestic evidence-support systems,  
enhancing the global evidence architecture,  
and putting evidence at the centre of everyday life



Global Commission on Evidence to Address Societal Challenges

2024

Global Commission on Evidence  
To Address Societal Challenges

### Global Evidence Commission update 2025

Contributing to a step-change improvement  
in how we learn from others around the world,  
and not losing sight of ongoing opportunities



Global Commission on Evidence to Address Societal Challenges

# Evidence Commission

>> ABOUT US

## Secretariat



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Senior Advisor, Policy and System Impacts



John Lavis

Director



Jeremy Grimshaw

Co-lead, RISE (Ottawa Hospital Research Institute)

## Funders



The commissioners and secretariat gratefully acknowledge the following funders:

- American Institutes for Research
- Canadian Institutes of Health Research through a grant to the McMaster Health Forum on behalf of the COVID-19 Evidence Network to support Decision-making (COVID-END)
- CMA Foundation / Fondation AMC
- Healthcare Excellence Canada
- Health Research Board
- Michael Smith Health Research BC.

Organizations may join this effort to take the work of the Global Evidence Commission farther, faster. Our independent panel of commissioners has produced a [report](#) with recommendations and is pursuing a variety of pathways to influence (throughout 2022 and 2023) to strengthen the use of evidence by decision-makers in addressing societal challenges, both in routine times and in future global crises.



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AMC



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Healthcare  
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Canada

Excellence  
en santé  
Canada



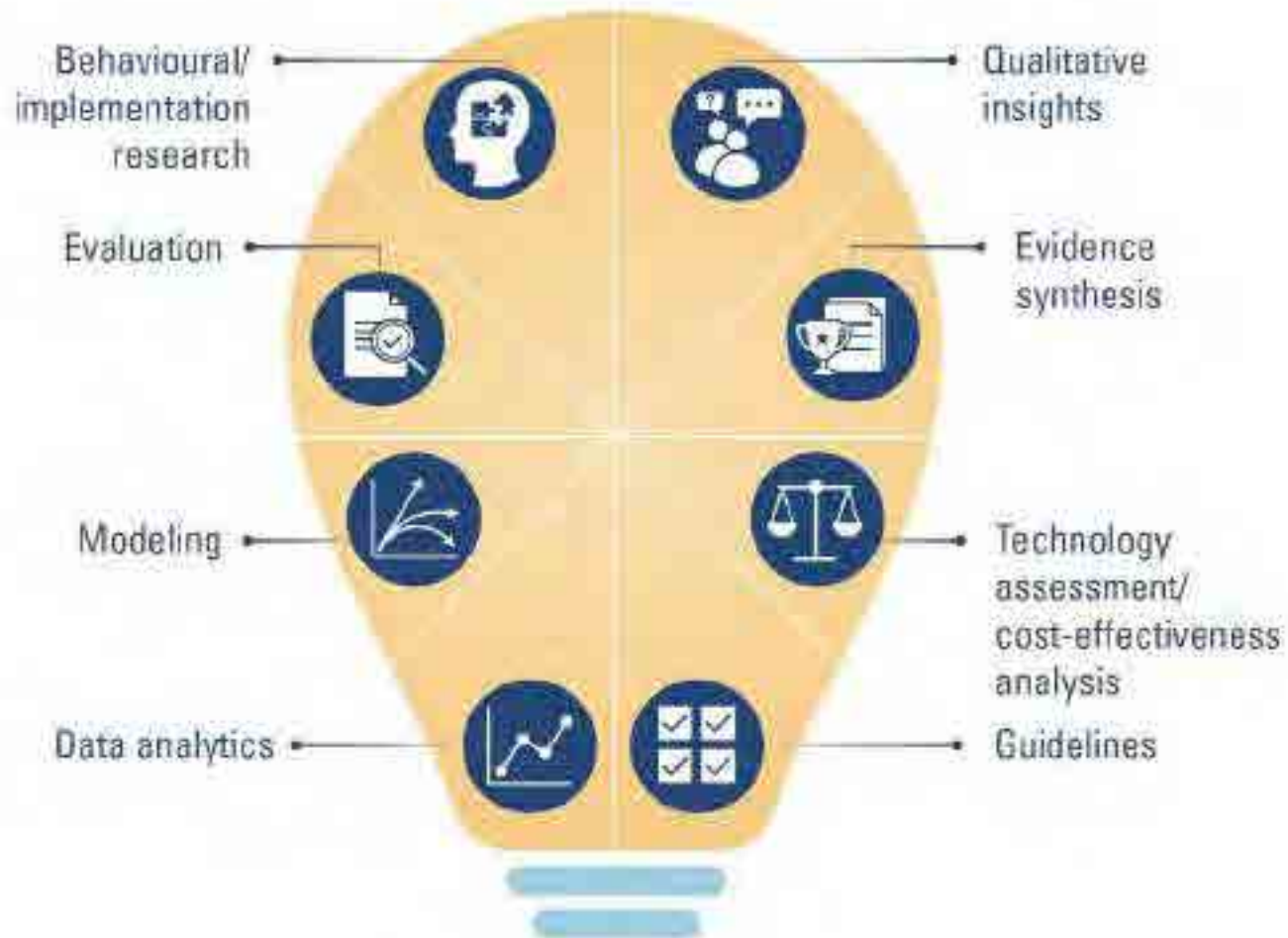
Health  
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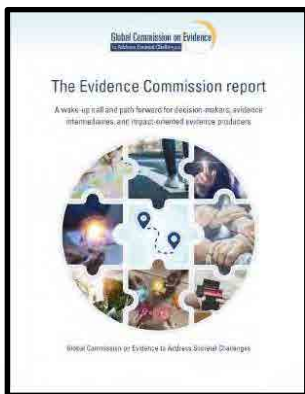


Michael Smith  
Health  
Research BC



# Eight Different Forms of Evidence





# Four Types of Decision Makers



## Government policymakers

Need to be convinced there's a compelling problem, a viable policy and conducive politics



## Organizational leaders

*(e.g., business and non-governmental organization leaders)*  
Need a business case to offer goods and services



## Professionals













*(e.g., doctors, engineers, police officers, social workers and teachers)*

Need the opportunity, motivation and capability to make a professional decision or to work with individual clients to make shared decisions

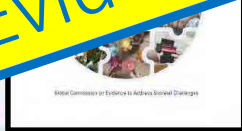


## Citizens

*(e.g., patients, service users, voters and community leaders)*  
Need the opportunity, motivation and capability to make a personal decision, take local action or build a social movement

Vantage point	Forms of evidence					
Local (national or sub-national) evidence		 Data analytics	 Modeling	 Evaluation	 Behavioural/ implementation research	 Qualitative insights
Global evidence		 Evidence synthesis <p>An evidence synthesis uses a systematic and transparent process to identify, select, appraise and synthesize the findings from all studies that have addressed the same question. The objective is to come to an overall understanding of what is known, including how this may vary by groups (e.g., girls and young women) and contexts (e.g., low- and middle-income countries). For questions about options, part of what is known can be about what works for whom in what contexts.</p>				
Local (national or sub-national) recommendations or evidence support informed by local and global evidence		 Technology assessments	 Guidelines			

The Need for Local  
and Global Evidence





## Use of Evidence During COVID- 19 Pandemic

'Other things' than best evidence  
that were more typically  
encountered by COVID-19  
decision-makers



This (first) annual update is focused on three implementation priorities:



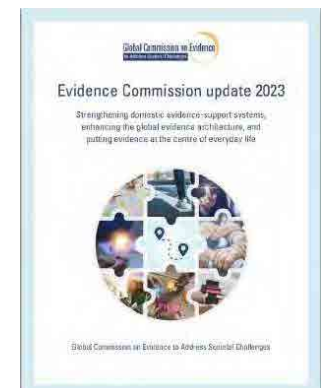
Formalize and strengthen domestic evidence-support systems



Enhance and leverage the global evidence architecture



Put evidence at the centre of everyday life



# Global Commission on Evidence

## to Address Societal Challenges

Access features,  
update & report

Learn  
from events

Strengthen domestic  
evidence-support systems

Enhance the  
global evidence architecture

Put evidence at the  
centre of everyday life

About  
us

Networks / Evidence Commission

## Global Commission on Evidence to Address Societal Challenges



The Global Evidence Commission began as a grassroots effort to improve the use of research evidence, both in routine times and in future global crises. In January 2024, we released our second annual update (I Update

### Read the features, report and update 2024

- [SHOW ME the evidence: features of an approach to reliably getting research evidence to those who need it \(preprint\)](#)
- Also available in [French \(Français\)](#) and [Spanish \(Castellano\)](#)

## SHOW ME the evidence:

Features of an approach to reliably getting research evidence to those who need it

(Last updated 11 September 2024)

The world is poised for a step-change improvement in how we use evidence to address societal challenges.

Given the speed at which plans are being made to support this once-in-a-generation transformation, the Implementation Council of the Global Commission on Evidence to Address Societal Challenges developed a working version of the features of an approach to reliably getting research evidence to those who need it and achieved consensus among leaders drawn from the Implementation Council, as well as the Alliance for Living Evidence (Alive) Council and Evidence Synthesis International (ESI).

Drawing an acronym from the first letter of each feature, the 'SHOW ME the evidence' features are:

- 1) Support systems locally that use many forms of research evidence to help address local priorities
- 2) Harmonized efforts globally that make it easier to learn from others around the world
- 3) Open-science approaches that make it the norm to build on what others have done
- 4) Waste-reduction efforts that make the most of investments in evidence support and in research
- 5) Measured communications that clarify what we know from existing evidence and with what caveats
- 6) Equity and efficiency in all aspects of this work.

The 100+ contributing authors from across the 'evidence synthesis and support' world want to ensure that our future

# ‘SHOW ME the evidence’ features

1. **Support systems locally** that use many forms of research evidence to help address local priorities
2. **Harmonized efforts globally** that make it easier to learn from others around the world
3. **Open-science approaches** that make it the norm to build on what others have done
4. **Waste-reduction efforts** that make the most of investments in evidence support and research
5. **Measured communications** that clarify what we know from existing evidence and with what caveats
6. **Equity and efficiency** in all aspects of this work.

## Join our call to action

We are keen to work with any groups interested in contributing to our three implementation priorities.

- [Formalize and strengthen domestic evidence-support systems](#) → conduct or participate in a rapid evidence-support system assessment for your country and find ways to act on the lessons learned if one has already been conducted.
- [Enhance and leverage the global evidence architecture](#) → encourage funders and donors – both in your own country and those operating globally – to be part of the solution and encourage impact-oriented evidence producers – especially those producing global public goods like living evidence syntheses – to work in more coordinated ways and to build connections to domestic evidence-support networks and units.
- [Put evidence at the centre of everyday life](#) → support citizen-serving NGOs and citizen leaders to take action in your country.

The Global Evidence Commission's secretariat and Implementation Council also welcome expressions of interest from any groups interested in complementing what we are doing – with the three implementation priorities, with recommendations that do not fall within these current priorities, or with formally monitoring progress against each recommendation.

## About us

The [Global Evidence Commission secretariat](#) engages with the following four groups in addressing the Global Evidence Commission's implementation priorities:

- Our [Implementation Council](#) promotes, contributes to and/or leads efforts to implement the report's 24 recommendations and three implementation priorities.
- The [Rapid Evidence-Support System Assessment \(RESSA\) Country Leads Group](#) advances the Global Evidence Commission's implementation priority to strengthen domestic evidence-support systems by sharing lessons learned from participating countries and taking action based on what is learned.
- The [Global Evidence Producers Group](#) advances the Global Evidence Commission's implementation priority

Versions available now:

- [Update 2024](#)
- [Update 2023](#)
- [Online executive summary](#)
- [Online full report](#)
- [Online chapters and sections \(or infographics\)](#)
- [Print-on-demand full report](#) (at cost through Amazon)

# Case Studies and Best Practices in EMR

## CASE STUDY



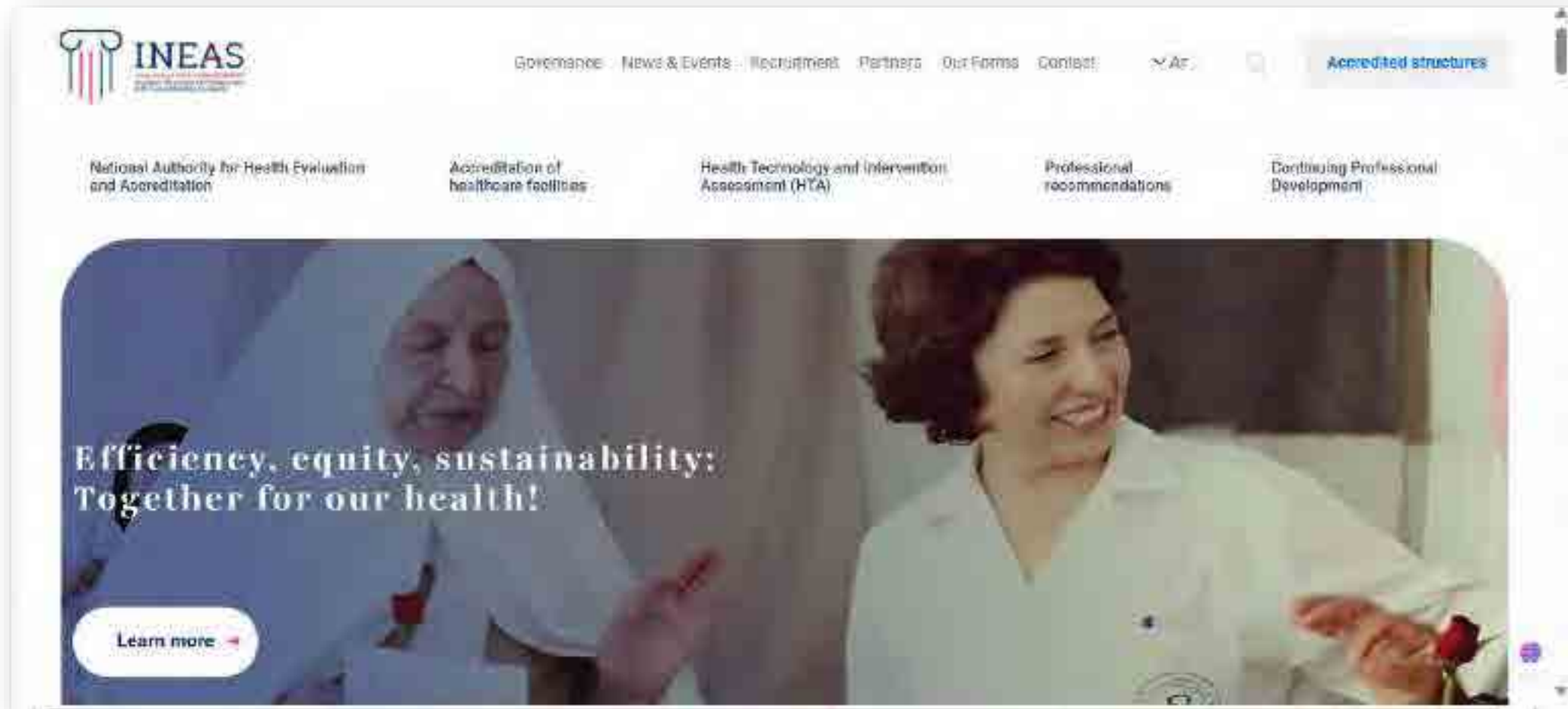
# Examples of Evidence Synthesis Initiatives / Programs in EMR

GRADE Guidelines	Systematic Reviews
<b>AUB GRADE Center, Lebanon</b> <a href="https://www.aub.edu.lb/fm/CRI/Pages/GRADE.aspx">https://www.aub.edu.lb/fm/CRI/Pages/GRADE.aspx</a>	<b>Cochrane Iran (Associate Center):</b> National Institute for Medical Research Development (NIMAD) <a href="http://iran.cochrane.org/">http://iran.cochrane.org/</a>
<b>National EBM Center, SHC, Saudi Arabia</b> <a href="https://shc.gov.sa/Arabic/Evidences/Pages/default.aspx">https://shc.gov.sa/Arabic/Evidences/Pages/default.aspx</a>	<b>Cochrane Pakistan (Associate Center):</b> Launched 25 Feb 2025 <a href="https://community.cochrane.org/news/announcing-launch-cochrane-pakistan">https://community.cochrane.org/news/announcing-launch-cochrane-pakistan</a>
<b>INEAS, Tunisia</b> <a href="https://www.ineas.tn/fr">https://www.ineas.tn/fr</a>	

# Lebanon: AUB GRADE Center




# Tunisia: INEAS (National Authority for Health Evaluation and Accreditation)



# Tunisia

Research | [Open access](#) | Published: 13 May 2021

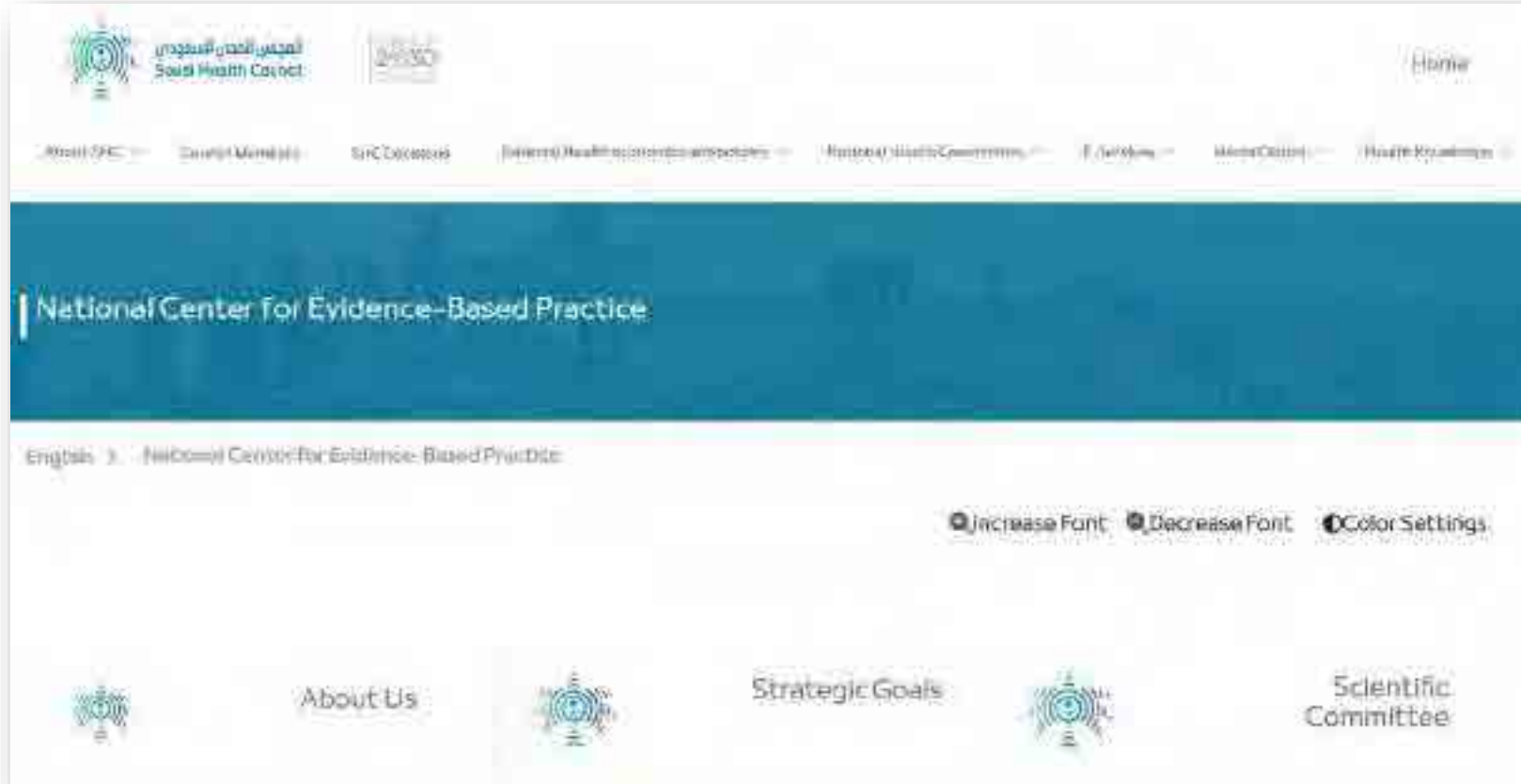
## Contextual differences considered in the Tunisian ADOLOPMENT of the European guidelines on breast cancer screening

[Lara A. Kahale](#), [Hella Ouertatani](#), [Asma Ben Brahem](#), [Hela Grati](#), [Mohammed Ben Hamouda](#), [Zuleika Saz-Parkinson](#) & [Elie A. Akl](#) 

*Health Research Policy and Systems* **19**, Article number: 80 (2021) | [Cite this article](#)

**2304** Accesses | **17** Altmetric | [Metrics](#)


# Saudi Arabia: Saudi Health Council (SHC): National Center for Evidence-Based Practice



## National Center for Evidence-Based Practice

Perspective | [Open Access](#) | [Published: 28 November 2022](#)

# A New Era of National Guideline Development in Saudi Arabia

[Ziad A. Memish](#) , [Abdulrahman S. Alqahtani](#), [Nahar Al-Azemi](#), [Nebras Abu Alhamayel](#), [Mohammad Saeedi](#), [Shatha Abuzinada](#), [Rayan G Albarakati](#), [Subramaniasivam Natarajan](#), [Ximena Alvira](#), [Khushnam Bilimoria](#) & [Klara Brunnhuber](#)

*Journal of Epidemiology and Global Health* **12**, 373–379 (2022) | [Cite this article](#)

**944** Accesses | [Metrics](#)

## Abstract

Saudi Arabia's ambitious Vision 2030 project was launched in 2016 as a strategy for economic development and national growth, with 11 Vision Realization Programs put in charge of its

# Table 1 Transferrable lessons learnt from Saudi guideline projects to date grouped by the National Guidelines Center's four design principles for guideline development

From: [A New Era of National Guideline Development in Saudi Arabia](#)

Lessons learnt	Solution implemented at the National Guidelines Center in Saudi Arabia
Design principle 1: high quality	
Ensure comprehensive conflict of interest declaration	All clinical experts involved in voting sessions (in addition to all people involved in any part of guideline development) declare any potential conflict of interest in accordance with the Guideline Center's COI policy based on GIN's 9 Guiding Principles [9,10,11]
Apply rigorous evidence-based methodology	<p>Guidelines are developed using methodologies developed by the GRADE Working Group and GIN (such as the GRADE Evidence to Decision frameworks developed by the GRADE Working Group) [9,10,11]</p> <p>Guidelines are developed in partnerships with companies with known experience in creating methodologically rigorous international guidelines (for example, Elsevier [<a href="https://www.elsevier.com/">https://www.elsevier.com/</a>] and Epistemonikos Foundation [<a href="https://www.epistemonikos.org/">https://www.epistemonikos.org/</a>])</p> <p>All active Task Force (expert panel) members are given the opportunity to complete a INGUIDE Level 1 Guideline Group or Panel Member Certification Course jointly developed by GIN and McMaster University's Department of Health Research Methods, Evidence, and Impact (<a href="https://inguide.org/">https://inguide.org/</a>)</p>
Design principle 2: relevance	
Involve key stakeholder groups	<p>In line with global best practice, stakeholder buy-in and ownership has been sought from the earliest stage of the project via extensive stakeholder consultation in the form of 3 workshops, 2 surveys, and 10 post-survey interviews for alignment with over 60 key stakeholders during formulation of foundational Guidelines Center documents, policies and processes (Vision, Mission, Charter, Design principles, Guideline Development Processes, Conflict of Interest Policies, Governance Structure, Guideline Topic Selection etc.) [12]</p> <p>End users and representatives of key stakeholder organizations involved in the healthcare process or guideline implementation are invited to participate in peer review</p>

## 4 Design Principles:

1. High quality
2. Relevance
3. Implementation
4. Sustainability

Design principle 2: relevance	
Involve key stakeholder groups	<p>In line with global best practice, stakeholder buy-in and ownership has been sought from the earliest stage of the project via extensive stakeholder consultation in the form of 3 workshops, 2 surveys, and 10 post-survey interviews for alignment with over 60 key stakeholders during formulation of foundational Guidelines Center documents, policies and processes (Vision, Mission, Charter, Design principles, Guideline Development Processes, Conflict of Interest Policies, Governance Structure, Guideline Topic Selection etc.) [12]</p> <p>End users and representatives of key stakeholder organizations involved in the healthcare process or guideline implementation are invited to participate in peer review</p>
Utilize local expertise	<p>Guideline development is undertaken (with the help of a methodology and administrative support team) by multidisciplinary panels ("Task Forces") of around ten people each, comprised of local healthcare professionals across the specialties relevant to the guideline</p> <p>The selection of clinical questions by guideline task forces is informed by local clinical priorities and needs for each topic and usually covers several settings and/or areas across the care continuum such as prevention, diagnosis, treatment, discharge, and follow-up</p>
Focus on local needs and value	<p>The selection and prioritization of guideline topics is based a multi-component framework comprised of guideline impact indicators (such as local or regional epidemiology and disease burden) and effort parameters (e.g. availability and maturity of local care pathways, national guideline centers or teams)</p> <p>Value is built into the very fabric of the project and the Center, for example through</p> <p>Close involvement of the Center for Improving Value in Health (<a href="https://cvalue.sa">https://cvalue.sa</a>)</p> <p>Input on topic selection and other strategic decisions from insurer and payer organizations</p> <p>Systematic consideration of cost as one of the contextual factors when formulating guideline recommendations</p>
Design principle 3: practical implementation	
Develop a varied and timely dissemination and implementation strategy	<p>The guidelines produced by the Guidelines Center will be disseminated to end users through online and offline channels including a website, mobile apps, publications, and educational events</p> <p>Order sets in electronic patient record systems at selected pilot sites are being aligned with the new national guidelines, enabling automated monitoring of clinical adoption and impact</p> <p>Key performance indicators are being co-developed for selected recommendations to provide starting points for local audits and quality improvement initiatives to drive guideline use and adherence</p>

#### Design principle 4: sustainability

Identify the optimal long-term host for the National Guidelines Center	HHC has conducted interviews with 18 stakeholder organizations across the Saudi guideline landscape to establish the most effective future governance model for the Center that resulted in consensus for a National Guidelines Center to move to the SHC and its National Center for EBM
Spread the workload	To ensure methodological consistency across all guideline developing organizations in Saudi Arabia, the SHC National Center for EBM has developed a booklet outlining the key principles of guideline development based on the GIN standards and aligned with the methodology used for the first 12 guidelines developed by the Center [5]
Build strategic partnerships and collaborations	<p>Entering the next phase of the Center under the aegis of the SHC, one key focus will be on (re-)establishing good working relationships with local guideline expert methodologists and earlier local guideline initiatives inside Saudi Arabia (e.g. with the Guideline Adaptation Program at the King Saud University, National Gulf EBM Center in the National Guard, Jeddah EBM Group, BORHAN [Saudi Society for EBHC], the Saudi Commission for Health Specialties)</p> <p>The Center is keen to engage in dialogue with guideline centers worldwide for continuous exchange, learning and improvement about best practices in guideline development and implementation, with several sites visits in planning</p> <p>Once fully functional, the Center will aim to become a hub or resource/reference center at regional and international levels for collaborations and networking in the areas of guideline development, evidence-based healthcare, and knowledge translation projects (e.g. with WHO-EMRO, WHO Collaborating Centers, GIN, Arab Regional Community, International Society for Evidence-Based Health Care [ISEHC], the GRADE Working Group, JBI, Cochrane)</p>
Utilize digital tooling for transparent documentation and audit	HHC and SHC are using advanced digital tooling to support and document various steps of guideline development, to facilitate participation of the Task Force members, and to ensure ease of review and updating of all captured information and data
Ensure regular and timely guideline updates	The timing of guideline review (and if required, updating) will be informed by continuous evidence scanning with a guideline expiry date 5 years following publication

*COI* Conflicts of Interest, *EBM* Evidence-Based Medicine, *GIN* Guidelines International Network, *GRADE* Grading of Recommendations Assessment, Development and Evaluation, *HHC* Health Holding Company, *SHC* Saudi Health Council

**MOU between SHC  
and KSU, June 2022**



**MOU between SHC  
and KSU, June 2022**



**MOU between SHC  
and KSU, June 2022**



**MOU between SHC  
and KSU, June 2022**



## (Former) Cochrane Bahrain (2005-2017)

Bahrain MOH established the first Branch for Cochrane center in the Arab World: *Bahrain Branch of the UK Cochrane Centre (2005-2017)*.

### Closure of Cochrane Bahrain

Cochrane Bahrain has closed. Zbys Fedorowicz, Director of the Associate Centre, has decided to step down from his role and no replacement leadership or associated funding could be found. We thank Zbys and his team for all their work over many years.

If you have any questions, please email [Veronica Bonfigli](#), Governance & Administrative Support Officer.

18 December 2017

# Cochrane Iran



# Cochrane Pakistan (*Launched 25 Feb 2025*)





World Health  
Organization

Eastern Mediterranean Region

[Home](#) [Health topics](#) [Data and statistics](#) [Media centre](#) [Information resources](#) [Countries](#) [Programmes](#) [About Us](#)

[Eastern Mediterranean Health Journal](#) | [All issues](#) | [Volume 29 2023](#) | [Volume 29 issue 7](#) | Methodological frameworks for adapting global practice guidelines to national context in the Eastern Mediterranean Region

Eastern Mediterranean Health  
Journal

[About the journal](#)

[All issues](#)

[Information for authors](#)

[Information for reviewers](#)

[Articles in press](#)

## Methodological frameworks for adapting global practice guidelines to national context in the Eastern Mediterranean Region

Abrar Alshehri,<sup>1,2</sup> Saja Almazrou<sup>3</sup> and Yasser Amer<sup>2,4-7</sup>

 [PDF version](#)

<sup>1</sup>Clinical Pharmacy Department, Umm Al-Qura University College of Pharmacy, Makkah, Saudi Arabia. <sup>2</sup>Adaptation Working Group, Guidelines International Network, Perth, Scotland, UK. <sup>3</sup>Clinical Pharmacy Department, King Saud University College of Pharmacy, Riyadh, Saudi Arabia. <sup>4</sup>Pediatrics Department, King Saud University Medical City, Riyadh, Saudi Arabia (Correspondence to Y. Amer: [yassersamiamer@gmail.com](mailto:yassersamiamer@gmail.com); [yamer@ksu.edu.sa](mailto:yamer@ksu.edu.sa)). <sup>5</sup>Clinical Practice Guidelines and Quality Research Unit, Quality Management Department, King Saud University Medical City, Riyadh, Saudi Arabia.



# Approaches for Developing Adapted or Adopted CPGs

Most incorporated one or more existing methodological frameworks/ appraisal tools, such as ADAPTE, AGREE II, and/or GRADE, including:

1. **ADAPTE**
2. **CAN-IMPLEMENT**
3. **Adapted ADAPTE** 
  - 6 Methodologies were used in our Eastern Mediterranean Region.
  - 2 were born in KSA & one born in Egypt
4. **RAPADAPTE**
5. **GRADE-ADOLOPMENT (2017)**  
6. **KSU-Modified-ADAPTE (2019)**  



ELSEVIER



CrossMark

Journal of Clinical Epidemiology 81 (2017) 101–110

**Journal of  
Clinical  
Epidemiology**

# GRADE Evidence to Decision (EtD) frameworks for adoption, adaptation, and de novo development of trustworthy recommendations: GRADE-ADOLOPMENT

Holger J. Schünemann<sup>a,b,\*</sup>, Wojtek Wiercioch<sup>a</sup>, Jan Brozek<sup>a,b</sup>, Itziar Etxeandia-Ikobaltzeta<sup>a</sup>, Reem A. Mustafa<sup>a,c,d</sup>, Veena Manja<sup>e,f</sup>, Romina Brignardello-Petersen<sup>g,h</sup>, Ignacio Neumann<sup>a,i</sup>, Maicon Falavigna<sup>j,k</sup>, Waleed Alhazzani<sup>a,b</sup>, Nancy Santesso<sup>a</sup>, Yuan Zhang<sup>a</sup>, Jörg J. Meerpohl<sup>l,m</sup>, Rebecca L. Morgan<sup>a</sup>, Bram Rochwerf<sup>a</sup>, Andrea Darzi<sup>d</sup>, Maria Ximenes Rojas<sup>n</sup>, Alonso Carrasco-Labra<sup>a,i</sup>, Yaser Adi<sup>o</sup>, Zulfa AlRayees<sup>p</sup>, John Riva<sup>a,q</sup>, Claudia Bollig<sup>l</sup>, Ainsley Moore<sup>a,q</sup>, Juan José Yepes-Núñez<sup>a</sup>, Carlos Cuello<sup>a,i</sup>, Reem Waziry<sup>s,t</sup>, Elie A. Akl<sup>a,s</sup>

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issues that may not be fully known or suspected to vary across settings, during centralized guideline processes [11].

Transparently laying out the judgments that a guideline panel makes when formulating recommendations would facilitate their later adaptation. However, existing guidelines often do not provide the necessary details about this process and other decisions necessary to work on their adaptation and adoption [12,13]. Unfortunately, this makes de novo recommendation development often unavoidable because evidence syntheses are not appropriately developed or do not cover all criteria that are relevant for local decision-making [4]. Thus, proper adoption or adaptation of recommendations requires transparent description of the processes used by the original guidelines, including the methodology used and how conflicts of interest were managed.

Development of de novo recommendations, on the other hand, involves formulating new questions and seeking to answer them in guidelines that contain recommendations not included in original guidelines [14–16]. This approach can be based on existing evidence synthesis such as systematic reviews or health technology assessments (HTAs) that the guideline developer identifies as relevant for their questions. Original guidelines may still play a role in de novo development by making evidence syntheses available that may lead to recommendations that the original guideline developer did not consider. It should follow good practice to produce trustworthy guidelines described by several

and culture of a specific jurisdiction or country.

We developed and tested an approach for adoption, adaptation, and de novo guideline development based on the GRADE EtD frameworks. To complete this work, we applied prior work on adaptation of guidelines to address the challenges guideline developers face [2]. The main objective of this article is to describe this approach based on applying elements of it to 22 guidelines as part of a new national guideline program by the Ministry of Health in Saudi Arabia. We call this approach “GRADE-ADOLPMENT” of guidelines, expressing the combined use of adoption, adaptation, and de novo recommendations to provide trustworthy guidelines.

## 2. Methods

### 2.1. General organization and planning

We developed GRADE-ADOLPMENT as a result of establishing a new national guideline program by the Ministry of Health in the Kingdom of Saudi Arabia (KSA). Our work began by creating a handbook for guideline production that described the approach and built on our prior work [2,12,24]. The project planning began in June 2012 and implementation of the guideline development started in July 2013. “Wave 1” included generating practice guidelines on 10 different topics in 2013, and “wave 2” included generating 12 practice guidelines from 2014 to 2015 [25]. Our main goal was to guide the development of

# Saudi Arabia: KSUMC CPG program



# KSU-Modified-ADAPTE

Received: 12 March 2018 | Accepted: 14 March 2018

DOI: 10.1111/jep.12927



## ORIGINAL PAPER

WILEY

Journal of Evaluation in Clinical Practice  
International Journal of Public Health Policy and Health Services Research

## Adapting evidence-based clinical practice guidelines at university teaching hospitals: A model for the Eastern Mediterranean Region

Yasser S. Amer MBBCh, MPed, MHI, CPHQ, FISQua, Dr<sup>1,2,3,4</sup>  |

Hayfaa A. Wahabi PhD, FRCOG, FRCS (Ed.), MMedSci(ART), MMedEdu, Associate Professor<sup>2,5</sup>  | Manal M. Abou Elkheir PharmD, BCPS, Dr<sup>6</sup>  |

Ghada A. Bawazeer MSc, PharmD, BCPS, Dr<sup>2,6</sup>  | Shaikh M. Iqbal FRCPCH, Dr<sup>7,8</sup>  |

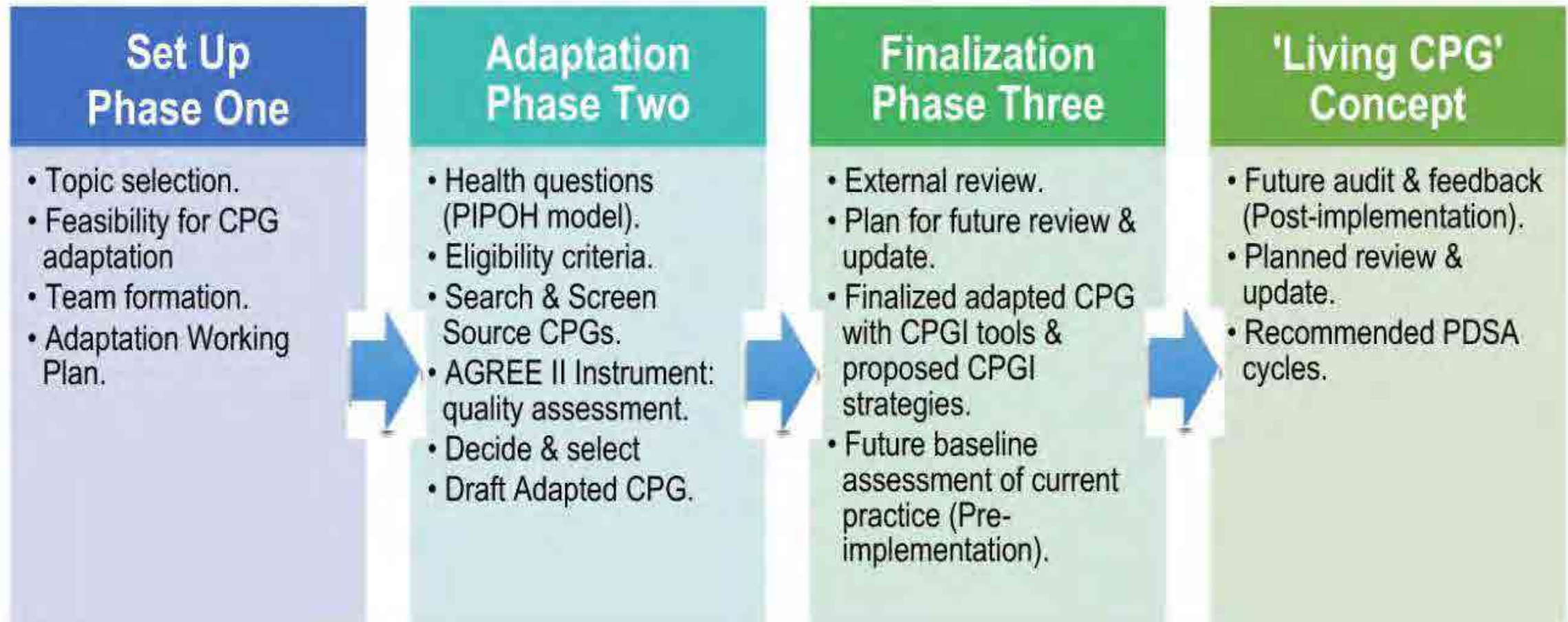
Maher A. Titi RN, MSN, CPHQ, FISQua<sup>2,9</sup>  | Aishah Ekhzaimy MBBS, FRCPC, FACE, Dr<sup>10</sup>  |

Khalid A. Alswat MD, FACP, MRCP, Dr<sup>10</sup>  | Rasmieh A. Alzeidan MSc, PhD, Dr<sup>11</sup>  |

Lubna A. Al-Ansary MBBS, MSc, MRCGP, FRCGP, Professor<sup>2,4,5,12</sup>  |

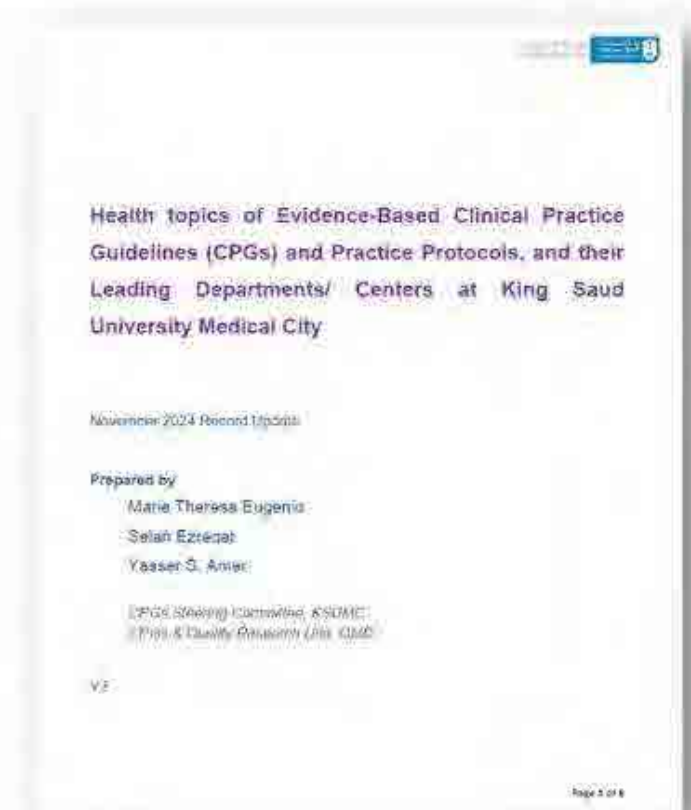


# KSU-Modified ADAPTE Methodology



# DATABASE (CPGs & PPs)

- ❑ CPGs: 51
- ❑ Protocols (PPs): 24
- ❑ Ongoing CPGs & PPs: 17



# Scientific Production

- Full-text articles: 55
- Conference papers (national & Int'l): 30+

## Scientific production

### Full-text publication

(The list is not exclusive)

Article title/ Year	Journal title/ Comment	Citations
<b>2024</b>		
1. Saudi Arabian evidence-based clinical practice guideline for the management of children with autism spectrum disorder: A national guideline adaptation using the KSU-modified ADAPTE methodology.	Clinical and Public Health Guidelines/ <i>National Guidelines</i>	0
2. Adapting Clinical Practice Guidelines for Chronic Kidney Disease Blood Pressure Management and kidney Replacement Therapy in Adults and Children in the Saudi Arabian Context Using the Grading of Recommendations Assessment, Development, and Evaluation (GRADE)-ADOLPMENT Methodology.	Saudi Journal of Kidney Diseases and Transplantation/ <i>National Guidelines</i>	0
3. GRADE guidance 39: using GRADE-ADOLPMENT to adapt, adopt or create contextualized recommendations from source guidelines and evidence syntheses.	Journal of Clinical Epidemiology	5
4. Reporting Conflicts of Interest and Funding in Health Care Guidelines: The RIGHT-COLIF Checklist.	Annals of Internal Medicine	0
5. A protocol for adapting a clinical practice guideline for the treatment of paediatric asthma for the Egyptian Pediatric Clinical Practice Guidelines Committee.	Clinical and Public Health Guidelines	1
6. Ten Quality Improvement Initiatives to Standardize Healthcare Processes (Chapter).	Intechopen	1
<b>2023</b>		
7. Using evidence to decision frameworks led to guidelines of better quality and more credible and transparent recommendations.	Journal of Clinical Epidemiology	5
8. Assessing Barriers and Facilitators for Implementing Clinical Practice Guidelines in Middle Eastern and North African Region Delphi Study.	Journal of Clinical Medicine	0
9. Methodological frameworks for adapting global practice guidelines to national context in the Eastern Mediterranean Region.	Eastern Mediterranean Health Journal	2
10. Adapting global evidence-based practice guidelines to the Egyptian healthcare context: the Egyptian Pediatric Clinical Practice Guidelines Committee (EPG) initiative.	Bulletin of the National Research Centre	6
11. Development of an international glossary for clinical guidelines collaboration.	Journal of Clinical Epidemiology	3
12. Clinical practice guidelines for neonatal hypoxic-ischemic encephalopathy: A systematic review using the appraisal of guidelines for research and evaluation (AGREE) II instrument.	Frontiers in Pediatrics	6

# Saudi Arabia

Bashiri *et al.*  
*Child Adolesc Psychiatry Ment Health* (2021) 15:6  
<https://doi.org/10.1186/s13034-020-00351-5>

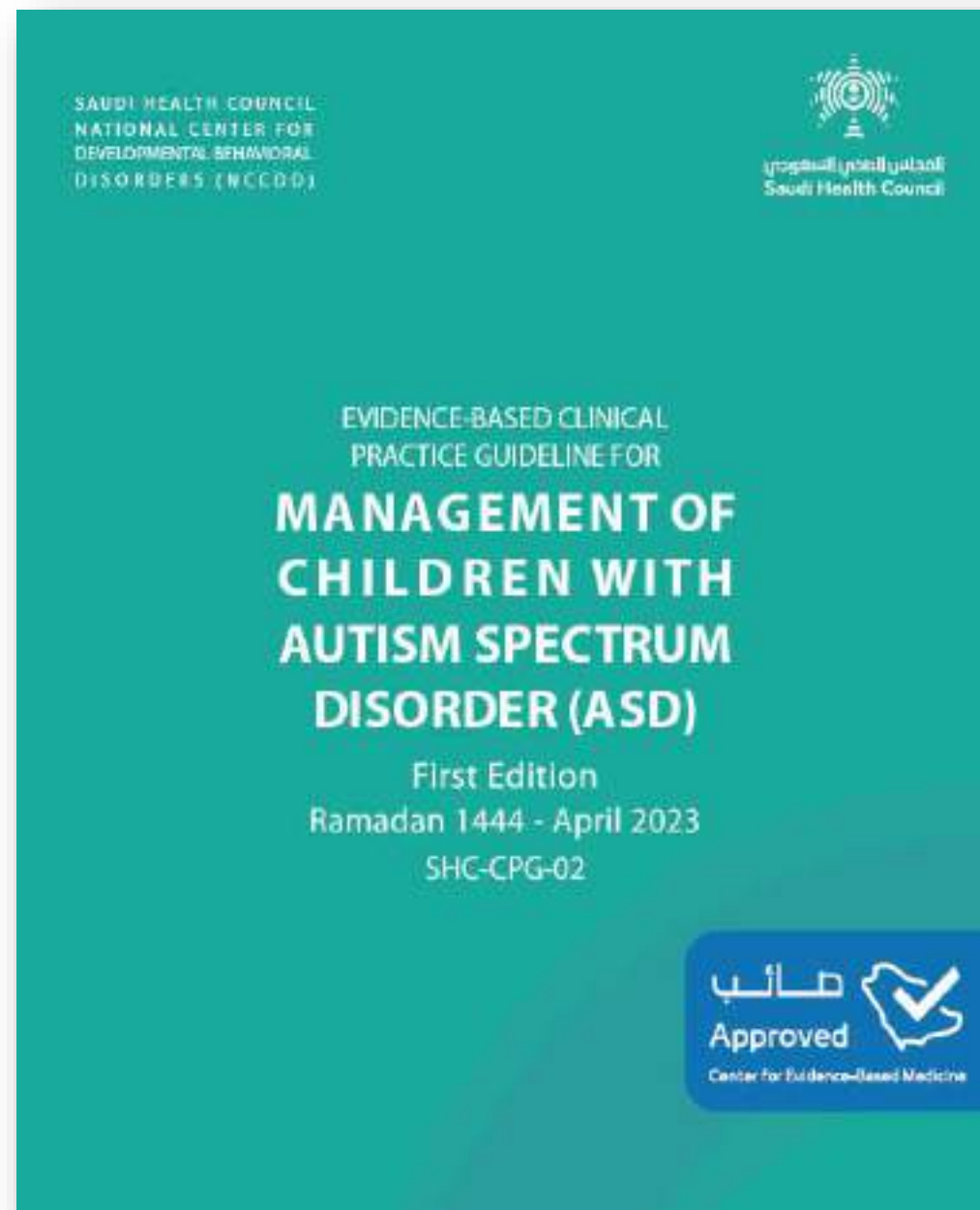
## Child and Adolescent Psychiatry and Mental Health

RESEARCH ARTICLE


Open Access

Adapting evidence-based clinical practice guidelines for people with attention deficit hyperactivity disorder in Saudi Arabia: process and outputs of a national initiative





# Job description: “Guideline Methodologist”



JOB DESCRIPTION KSUMC			
BASIC INFORMATION			
Job Title	English <b>METHODOLOGIST, CLINICAL PRACTICE GUIDELINES (CPG)</b>	Arabic <b>أخصائي منهجيات الإرشاقية للممارسة السريرية</b>	
Job Code		Grade	11
Department Code		No. of Direct Reports	
Department	QUALITY MANAGEMENT	Reporting To	MANAGER
Section / Unit	CLINICAL PRACTICE GUIDELINES	Job Family	ADMINISTRATIVE
Revised date: May 2013			
JOB PURPOSE			
<p>The role holder is responsible for the highest standards of expert methodological support and sustainability for collaborators of the clinical practice guideline (cpg) adaptation program, contributes in planning and supports the development / adaptation, implementation, evaluation, updating and the sustainability of evidence-based cpgs, supports the evidence-based healthcare quality improvement and safety, and active contribution in the capacity building for cpgs at king saud university medical city (ksumc).</p>			
KEY RESPONSIBILITIES			
<ol style="list-style-type: none"> <li>1. Provides a standard guide for the process of Clinical Practice Guidelines (CPGs) development and/ or adaptation</li> <li>2. Provides advice to managers and technical support for CPG development and adaptation</li> </ol>			

# Training and Education

KSUMC Steering Committee  
In collaboration with  
Corporate Quality Management Department






## EVIDENCE-BASED CLINICAL PRACTICE GUIDELINES

Evaluation, Adaptation and Implementation


5th November, 2024 8AM-12PM  
6th November, 2024 8AM-12PM

DUH Function Hall, 9th Floor

**Instructors**

 Lubna Al-Ansary  
 Ghada Bowazeer  
 Hadeel Alkofide  
 Yasser Amer  
 Maher Tili

**REGISTER NOW**



**Target Audience:**

- ✓ Members of CPGs Committees
- ✓ Members of Departmental Quality Teams
- ✓ All those interested in advancing their Evidence-Based Healthcare skills

More information  
Ms. Maria Thérèse Eugénie  
QM Coordinator-CPG  
0505020972 / Ext. # 80882

# CPG Implementation



The screenshot shows the homepage of the International Journal for Quality in Health Care. The header includes the Oxford Academic logo, navigation links for Journals and Books, and a sign-in button. The main banner features the journal's title and the ISQua logo. Below the banner is a navigation bar with links for Issues, More Content, Submit, Purchase, Alerts, and About. A search bar is also present. The main content area displays a featured article titled "Effects of Computerised Clinical Decision Support on Adherence to VTE Prophylaxis Clinical Practice Guidelines among Hospitalised Patients". The article is by Maher A Titi, Hadil A Alotaibi, Amel Fayed, Marim Baksh, Faisal Abdullah Abdulaziz Akait, Ziad Almomeni, Mohammed Atallah, Asrar FAishari, Amir Al-Jamal, and Yasser Salmer. The article is published in Volume 33, Issue 1, 2021. A sidebar on the left shows the journal's cover and volume information. A sidebar on the right encourages signing up for e-alerts.

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**JOURNAL ARTICLE**

**Effects of Computerised Clinical Decision Support on Adherence to VTE Prophylaxis Clinical Practice Guidelines among Hospitalised Patients**

Maher A Titi, Hadil A Alotaibi, Amel Fayed, Marim Baksh, Faisal Abdullah Abdulaziz Akait, Ziad Almomeni, Mohammed Atallah, Asrar FAishari, Amir Al-Jamal, Yasser Salmer

*international journal for quality in health care*, Volume 33: Issue 1, 2021; mzab034  
<https://doi.org/10.1093/mtq/mtzab034>

Published: 27 February 2021 Article history

Volume 33: Issue 1  
2021

**Article Contents**

Abstract

International Journal for  
Quality in Health Care

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# % Patients receiving appropriate VTE Prophylaxis according to the adapted CPG recommendations (39% ↑)



# Regional & International Collaborations

## 1. Guidelines International Network:

- Board of Trustees
- Working Groups
- Regional Community: Establishing Arab GIN
- Conference Scientific and Abstract Review Committees



## 2. WHO (Main): Guidelines Review Committee



## 3. International Society for Evidence-Based Health Care (ISEHC): Founding member



## 4. Collaborations mediated via WHO-EMRO:

- **Tunisia:** INEAS (Capacity Building) (2015 / 2016)
- **Qatar:** Methodological support for a National CPG
- **Afghanistan:** Methodological support for a set of National CPGs
- **Others:** RIGHT, INGUIDE, GELA, etc.

# KEY TAKEAWAYS



# Key Takeaways

## ***Key points to remember:***

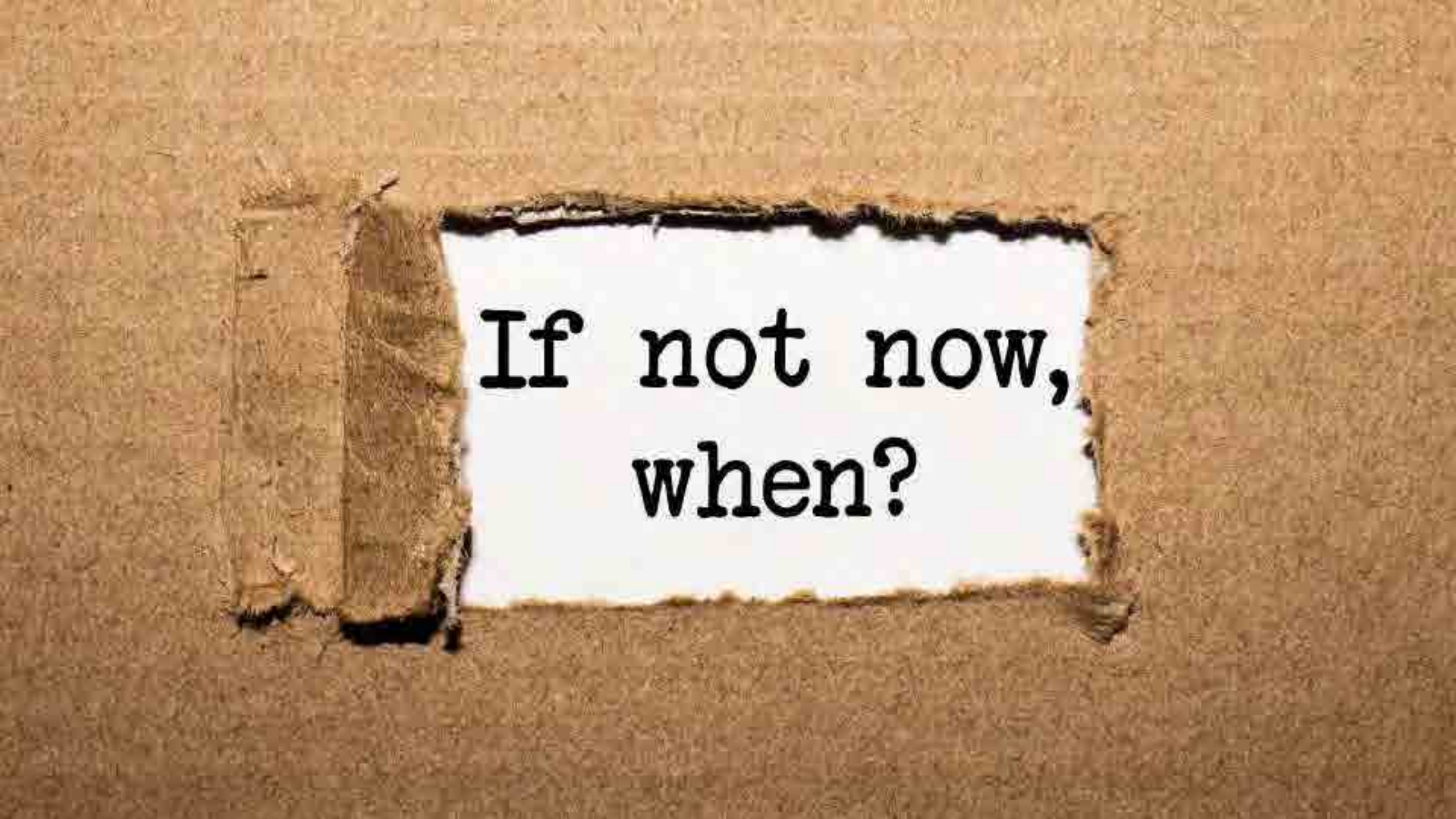
1. Evidence synthesis is the foundation of guideline development.
2. Quality assessment tools (GRADE, AMSTAR-2, ROBIS, AGREE II, etc.) are essential.
3. Systematic, transparent decision-making is crucial for strong recommendations.

**WHAT'S  
NEXT?**



# Future Directions

- More in-depth training is needed in systematic reviews and guideline development in EMR/MENA countries.
- The role of policymakers, funders, and international collaboration in advancing guideline development.
- Call to action for more substantial institutional support and capacity building.

A rectangular piece of brown, textured cardboard is shown with a jagged, torn edge. The cardboard is set against a plain, light-colored background. The text "If not now, when?" is printed in a bold, black, sans-serif font, centered within the rectangular opening of the cardboard. The text is arranged in two lines: "If not now," on the top line and "when?" on the bottom line.

**If not now,  
when?**

The background is a soft-focus collage of scientific and environmental motifs. On the left, a lightbulb is shown with a heart-shaped green plant growing inside its glass part, and a small patch of grass growing from its metal base. In the center, a faint DNA double helix is visible. On the right, a detailed molecular model with red and white spheres is shown. The text 'Thank you...' is in a yellow box at the top, and two email addresses are in a yellow box at the bottom.

Thank you...

[LALANSARY@KSU.EDU.SA](mailto:LALANSARY@KSU.EDU.SA)  
[YAMER@KSU.EDU.SA](mailto:YAMER@KSU.EDU.SA)