

PRIORITIZATION APPROACHES IN THE DEVELOPMENT OF HEALTH PRACTICE GUIDELINES: A SYSTEMATIC REVIEW

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Background

- Given the considerable efforts and resources required to develop guidelines, guideline developers need to prioritize the topics and questions to address.
- The use of a systematic, explicit and transparent prioritization process will direct efforts and funds towards the most important health needs, and will ensure that the guidelines are focused and of a proper scope.

Objective

The aim of this study was to identify and describe prioritization approaches in the development of clinical, public health, or health systems guidelines.

Methods

Eligibility criteria

 Papers describing a prioritization approach in the de novo development, update or adaptation of health practice guidelines.

Search Strategy

- MEDLINE and CINAHL (from inception to July 2019)
- Google Scholar
- No date or language restrictions

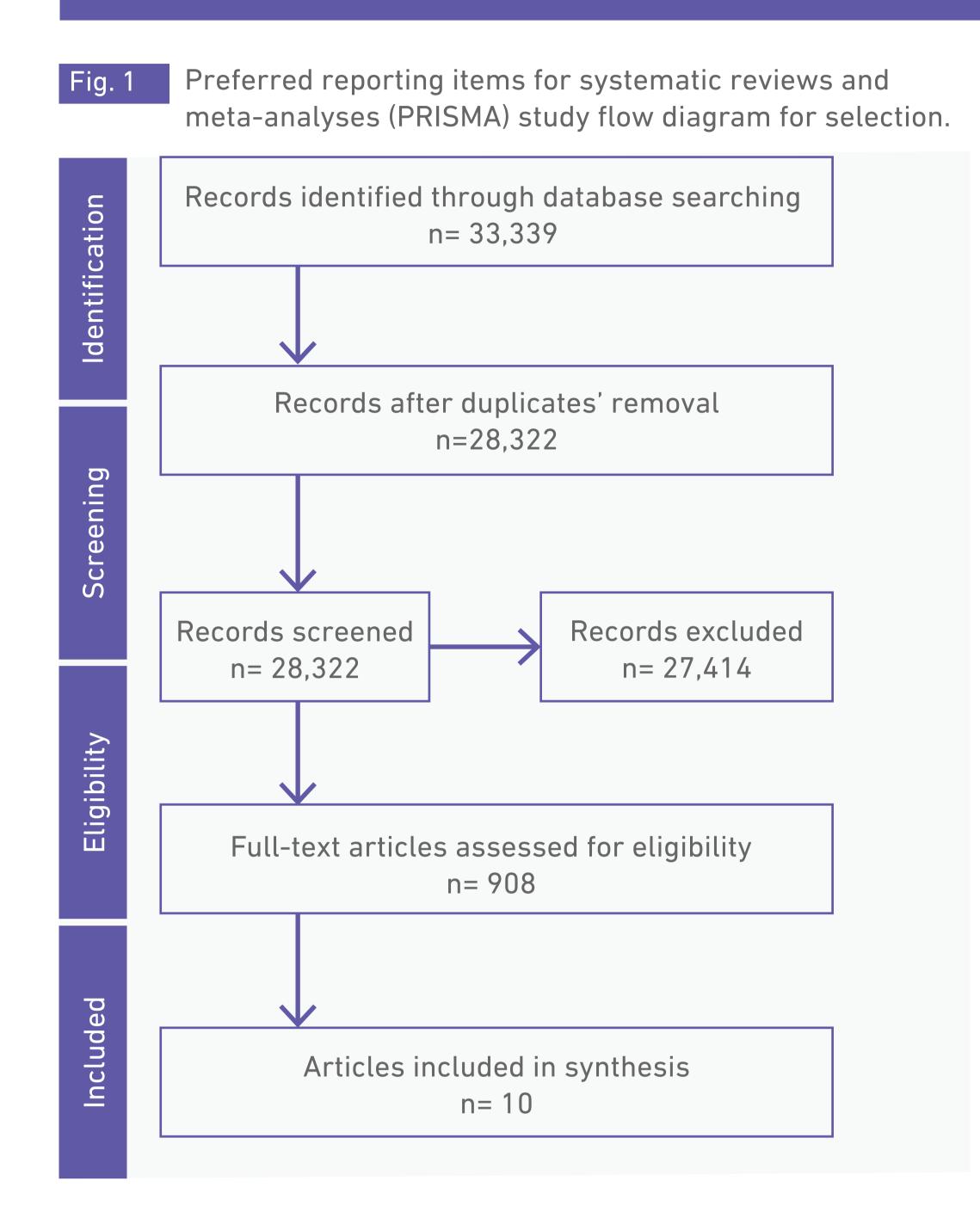
Study selection and data abstraction

- Performed in duplicate and independently
- Abstracted data:
 - General characteristics of the prioritization approaches
 - Steps of the development process for the prioritization approaches
 - Aspects proposed to be addressed when prioritizing guideline topics

Data synthesis

- Iterative process of drafting and revision to create a common framework of prioritization criteria that captures all reported criteria
- Semi-quantitative analysis

Results



We identified 10 prioritization approaches









All of the identified prioritization approaches focused on prioritizing guideline topics

None of the approaches was specific to the update or adaptation of guidelines

All focused on the de novo development of guidelines

Development process

Steps of the development process of the approaches for prioritizing guideline topics				
%*		Step		
90%		Grey literature		
90%		Stakeholder involvement		
70%		Peer-reviewed literature		
60%		Consensus building		
50%		Ranking of proposed prioritization criteria		
40%		Conducting primary research		
40%		Pilot testing		
%*: Percentage of papers reporting the aspect				

Aspects of prioritization

Table 2 Aspects proposed to be addressed when

prioritizing guideline topics

Aspect When to conduct prioritization? During various steps such as prioritizing the scope 10% of guideline, questions of potential interest, effort of synthesizing evidence, and recommendations.

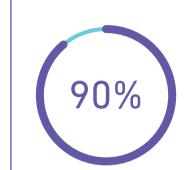


How to generate an initial list of topics?

- e.g. via surveys, database analysis, and based on issues arising from emerging technologies,
- Interest-driven (e.g. funder, government)
- Evidence-informed (scientific evidence, needs assessment, expert opinion).



What criteria to use?



What stakeholders to involve?

- Number: more than 12 or a range between 5 & 15
- Involvement methods: Delphi technique, nominal group technique, or workshops
- Types: patients & public, providers, payers, policy makers, principal investigators, professional societies, and a methodologist



Documentation

Maintained, made available to stakeholders, and form the basis for evaluation

%*: Percentage of papers reporting the aspect

Prioritization criteria

Table 3 Common framework of prioritization criteria and their respective domains

Disease-related factors	Health burden	100%
	Economic burden	50%
	Equity relevance	50%
	Burden on healthcare system	30%
	Urgency	10%
Interest	Health professional level	40%
	Consumer level	40%
	National level	20%
Practice	Practice variation	80%
	Uncertainty or controversy about best practice	40%
Guideline development	Absonce of guidance	50%
	Absence of guidance Unsatisfactory guidance	50%
		50%
	Availability of evidence Potential for changing existing guidance	50%
	rotelitiat for changing existing guidance	30 %
Potential impact of the intervention	Impact on health outcomes	70%
	Economic impact	50%
	Impact on the healthcare system	40%
	Impact on equity/access	20%
entation erations	Feasibility of intervention implementation	40%
	Availability of resources	30%
Implement considera		
<u> </u>		

Discussion

- There were variabilities in the development process of the approaches, aspects proposed to be addressed when prioritizing guideline topics, and prioritization criteria.
- Stakeholder involvement and the use of prioritization criteria represented key aspects of most prioritization approaches.

Conclusion

- Guideline developers can choose the prioritization approach and criteria that best fit their needs.
- There is a need to further evaluate the value of the identified approaches and to develop standardized and validated priority setting tools.
- Future studies can focus on the effectiveness of the suggested approaches in low-income countries.