Policy analysis (and finding and using research evidence to inform a policy analysis) Summary sheet

Matching the 'policy analysis' question to the right form of evidence



Looking in the right places for the right form of evidence

			About clinical & public health issues	About health and social system issues	
Clarifying a problem	1	 What is the problem (and its causes)? A risk factor or condition A program, service or product being used Current health- and social-system (governance, financial and delivery) arrangements within which programs, services and products are provided Current degree of implementation of an agreed course of action 			
	2	How did the problem come to attention and has this process influenced the prospect of it being addressed?	 e.g., for Canada www.cihi.ca for national health and healthcare utilization databases e.g., for all countries www.lexisnexis.com/hottopics/lnacademic/ for media coverage of health and social issues 		
	3	What indicators can be used, or collected, to es- tablish the magnitude of the problem and to measure progress in addressing it?			
	4	What comparisons can be made to establish the magnitude of the problem and to measure progress in addressing it?	PubMed HSR Queries www.nlm.nih.gov/nichsr/hedges/search.html → Process assessment → Outcomes assessment	Health Systems Evidence for health-system arrange- ments www.healthsystemsevi- dence.org	
	5	How can a problem be framed (or described) in a way that will motivate different groups?	PubMed HSR Queries www.nlm.nih.gov/nichsr/hedges/ search.html → Qualitative research	Social Systems Evidence for social challenges and social-system arrangements www.socialsystemsevi- dence.org	

			About clinical & public health issues	About health and social system issues	
Framing options	1	 Has an appropriate set of options been identified to address the problem (within one or more of the areas where problems were identified)? Introducing, changing or discontinuing a program, service or product Introducing, changing or discontinuing a health- or social-system arrangement that contributes to whether the right mix of programs, services a products get to those who need them Implementing an agreed course of action 			
	2	What benefits are important to those who will be affected and which benefits are likely to be achieved with each option?	ACCESSSS (or Cochrane Library) for clinical programs, services and drugs www.accessss.org (or www.cochranelibrary.com)	Health Systems Evidence for health-system arrange- ments www.healthsystemsevi-	
	3	What harms are important to those who will be affected and which harms are likely to arise with each option?	Health Evidence for public health programs and services www.healthevidence.org	dence.org Social Systems Evidence	
	4	What are the local costs of each option and is there local evidence about their cost-effectiveness?	ACCESSSS (or PubMed HSR Queries) for economic evaluations of any option www.accessss.org (or www.nlm.nih.gov/nichsr/hedges/search.html → Costs or economics)	for social challenges and social-system arrangements www.socialsystemsevi- dence.org	
	5	What adaptations might be made to any given option and might they alter its benefits, harms and costs?	PubMed HSR Queries www.nlm.nih.gov/nichsr/hedges/search.html		
	6	Which stakeholders' views and experiences might influence the acceptability of an option and its benefits, harms and costs?	→ Qualitative research		

			About clinical & public health issues	About health and social system issues
implementation iderations	1	 What are the potential barriers to and facilitators of the successful implementation of the policy or program (at each of the following levels)? Patients/citizens (e.g., awareness of the availability of a free program) Providers (e.g., adherence to guidelines) Organizations (e.g., performance management) Systems (e.g., enforcement of regulations) 	PubMed HSR Queries www.nlm.nih.gov/nichsr/hedges/search.html → Qualitative research	
ying impleme consideration	2	What strategies should be considered in order to facilitate the necessary behavioural changes among patients/citizens ?	Health Systems Evidence for health-system arrangements www.healthsystemsevidence.org Social Systems Evidence for social challenges and social-system arrangements www.socialsystemsevidence.org	
fying consi	3	What strategies should be considered in order to facilitate the necessary behavioural changes among providers ?		
Identifying cons	4	What strategies should be considered in order to facilitate the necessary organizational changes ?		
	5	What strategies should be considered in order to facilitate the necessary system changes ?		

Hints about searching these databases

1) use AND, OR or NOT to refine your search	OR NOT AND
2) use quotation marks to find exact phrases	"user fees" ≠ user fees
3) use brackets to group parts of a search	(doctor AND nurse) OR pharmacist ≠ doctor AND (nurse OR pharmacist)
4) use an asterix to find a word that may have many endings	nurs* = nurse OR nurses OR nursing

Look for quality ratings (e.g., AMSTAR) or, if you're lucky, designations of the best available systematic review to address a given question. For example, the COVID-END inventory defines the 'best' (available) evidence syntheses based on the quality of the review, the recency of search, and the availability of a GRADE evidence profile.

Appendix: Matching the right form of evidence to the right step

Decision-makers need both local evidence (i.e., what has been learned in their own country, state/province or city) and global evidence (i.e., what has been learned around the world, including how it varies by groups and contexts). They also may benefit from recommendations that draw on both local and global evidence.

Vantage point	Forms of evidence	Definitions	Steps where it adds great value
	Data analytics	Systematic analysis of raw data to make conclusions about that information	
	Modeling	Use of mathematical equations to simulate real-world scenarios (i.e., what is likely to happen if we don't intervene) and options (i.e., what happens if we intervene) in a virtual environment	1 2
	Evaluation	Systematic assessment of the implementation (monitoring) and impacts (evaluation) of an initiative for the purposes of learning or decision-making	2 4
Local (national	Behavioural/ implementation research	Study of methods to promote the systematic uptake of effective approaches into routine practices at the personal, professional, organization and government levels (implementation research) Systematic examination of what people (citizens and professionals) do, what drives them to do it, and what can sustain or change what they do (behavioural research)	3
or sub-national) evidence	Qualitative insights	Study of (typically non-numerical) data – obtained from interviews, focus groups, open-ended question- naires, first-hand observation, participant-observation, recordings made in natural settings, documents, and artifacts – to understand how individuals and groups view and experience problems, options, implementa- tion considerations (barriers, facilitators and strategies), and metrics	1234
Global evidence	Evidence synthesis	Systematic process of identifying, selecting, appraising and synthesizing the findings from all studies that have addressed the same question in order to arrive at an overall understanding of what is known, including how this may vary by groups (e.g., racialized communities) and contexts (e.g., low socio-economic neighbourhoods)	1 2*34
Local (national or sub-na-	Technology assessment/ cost-effectiveness analysis	Assessment of all relevant aspects of a 'technology' (e.g., a product or service), including safety, effective- ness, and economic, social and ethical implications (technology assessment), with an evidence synthesis often contributing to the assessment of effectiveness Comparison of the relative outcomes (effectiveness) and costs of two or more options, again with an evidence synthesis often contributing to the assessment of effectiveness	2*34
tional) recommendations or evidence support informed by local and global evidence	Guidelines	Systematically developed statements that recommend a particular course of action, often for citizens and professional and sometimes for organizations and governments, with one or more evidence syntheses contributing to the assessment of effectiveness, values and preferences, and other factors	2

*Adds the greatest value in this step but can add value in other steps.

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