

Integrating Qualitative Research Into Health Technology Assessment in Canada

The CADTH Experience

Laura Weeks, PhD
lauraw@cadth.ca

Scientific Advisor

Kristen Moulton, MSc
Tamara Rader, MLIS
Sarah Garland, MPH
Ken Bond, BEd, MA

Clinical Research Officer
Patient Engagement Officer
Clinical Research Assistant
Director, Patient Engagement and International Affairs

CADTH

Disclosure

- CADTH receives funding from Canada's federal, provincial, and territorial governments, with the exception of Quebec.
- CADTH collects fees for three of its programs:
 - CADTH Common Drug Reviews
 - CADTH pan-Canadian Oncology Drug Review
 - CADTH Scientific Advice

CADTH

is an independent, not-for-profit organization responsible for providing Canada's health care decision-makers with objective evidence about the optimal use of drugs and medical devices.

Our Programs and Services



HEALTH TECHNOLOGY MANAGEMENT PROGRAM

- Health Technology Assessment Service
- Optimal Use Service

CADTH Health Technology Expert Review Panel

- An advisory body to CADTH

Develop guidance and/or recommendations on non-drug health technologies to inform a range of stakeholders within the Canadian health care system

- Use a multi-criteria deliberative framework

HTEP Deliberative Framework

Framework Domain	Information/Elements	
Background/Context	<ul style="list-style-type: none"> • Audience; issue and policy question(s) 	
Clinical Need	<ul style="list-style-type: none"> • Background on health condition • Size of affected population • Availability of alternatives 	
Clinical Benefit	<ul style="list-style-type: none"> • Clinical effectiveness • Impact on clinical management 	
Harms	<ul style="list-style-type: none"> • Safety 	
Patient Preferences	<ul style="list-style-type: none"> • Acceptability of health technology by patient • Non-health benefits 	
Economic Impact	<ul style="list-style-type: none"> • Cost-effectiveness • Infrastructure support costs • Budget impact 	
Implementation	<ul style="list-style-type: none"> • Ease of integration into existing workflow • Training/competency • Ease of repair/maintenance 	
Legal	<ul style="list-style-type: none"> • Legal impacts 	
Ethics	<ul style="list-style-type: none"> • Consistent with ethical values 	
Environmental Impact	<ul style="list-style-type: none"> • Environmental impact of health technology (e.g., nuclear waste material) 	

Health Technology Assessment



HTERP Deliberative Framework

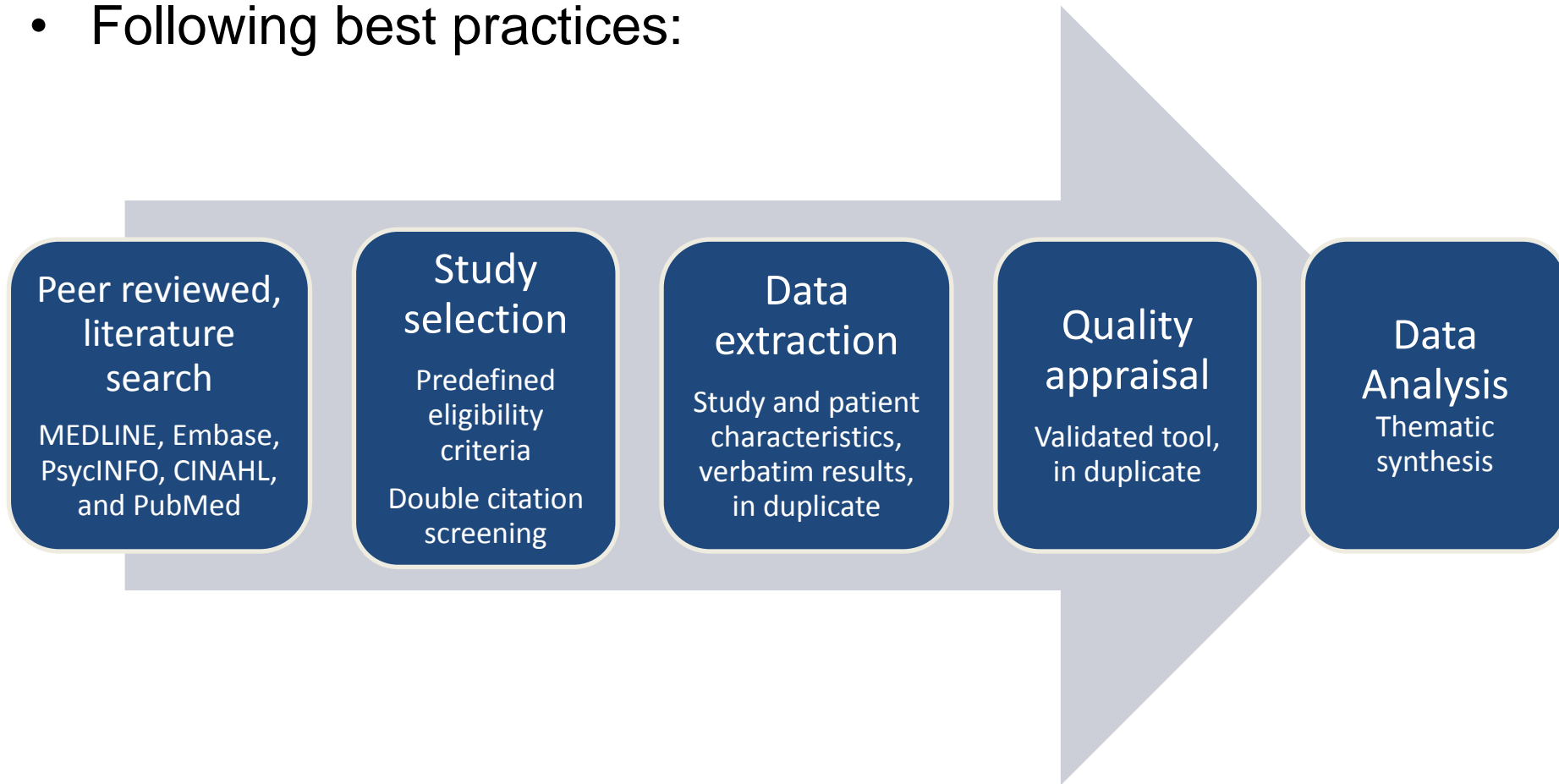
Framework Domain	Information/Elements	
Background/Context	<ul style="list-style-type: none"> Audience; issue and policy question(s) 	PROJECT SCOPING
Clinical Need	<ul style="list-style-type: none"> Background on health condition Size of affected population 	PROJECT SCOPING
	<ul style="list-style-type: none"> Availability of alternatives 	PROJECT SCOPING
Clinical Benefit	<ul style="list-style-type: none"> Clinical effectiveness Impact on clinical management 	CLINICAL SYSTEMATIC REVIEW
Harms	<ul style="list-style-type: none"> Safety 	CLINICAL SYSTEMATIC REVIEW
Patient Preferences	<ul style="list-style-type: none"> Acceptability of health technology by patient Non-health benefits 	?
Economic Impact	<ul style="list-style-type: none"> Cost-effectiveness Infrastructure support costs Budget impact 	ECONOMIC EVALUATION, MODELLING, BUDGET IMPACT ANALYSIS
Implementation	<ul style="list-style-type: none"> Ease of integration into existing workflow Training/competency Ease of repair/maintenance 	?
Legal	<ul style="list-style-type: none"> Legal impacts 	?
Ethics	<ul style="list-style-type: none"> Consistent with ethical values 	?
Environmental Impact	<ul style="list-style-type: none"> Environmental impact of health technology (e.g., nuclear waste material) 	?

Our Approach

- Systematic review of literature related to patient and caregiver perspectives and experiences
- Research questions address perspectives and experiences of those impacted by policy recommendations
 - Broad, letting issues of importance emerge through review
- Protocol developed in parallel with other HTA sections
 - External peer review

Systematic Review Methods

- Following best practices:



Reporting and Deliberation

- Separate chapter defined within HTA report
- Presentation to CADTH Health Technology Expert Review Panel (HTERP) by CADTH researchers
- Inform deliberation and recommendations

Example: Mismatch Repair Deficiency (dMMR) Testing for Patients with Colorectal Cancer

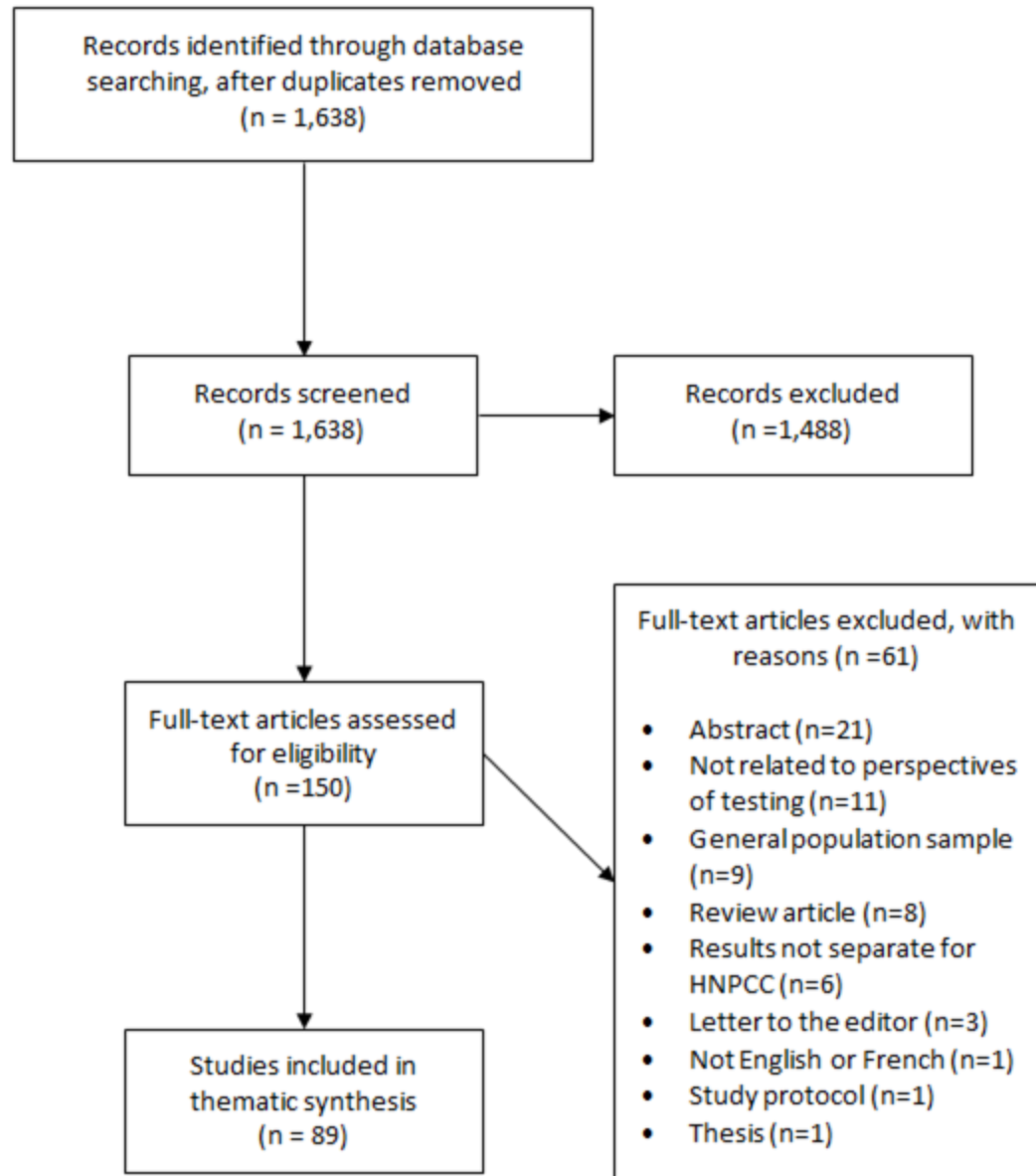
What are the perspectives of colorectal cancer patients, their family members, and caregivers regarding the value and impact of dMMR testing on their health, health care, and lives?

Identification

Screening

Eligibility

Included



Emergent Data Categories, Descriptive Themes, and Analytic Themes

Descriptive Themes	Categories	Analytic Themes	
Making a decision to learn mutation status	Decision-making process		Deciding to learn about one's mutation status is an individualized process with implications for the individual and their family
	Reasons for, and factors related to, learning mutation status		
	Reasons for not, and factors related to not, learning mutation status		
	Perceptions of genetic testing		
	Knowledge of genetic testing		
	Uptake of testing		
	Willingness to pay		
Learning mutation status	Expectations regarding testing		
Behaviours, feelings, and experiences after learning mutation status	Confidence in test results	Living with knowledge of one's mutation status has individual and family implications	
	Satisfaction with decision to learn mutation status		
	Impact of knowing mutation status		
	Disclosure and discussion of mutation status		

What Did the Synthesis Add?

Rationale to support recommendations

- Patients and their families value knowledge of dMMR status to manage future risk and implement screening
- Universal testing could improve equity by reaching those who do not actively seek testing

Implementation considerations

- Potential for behaviour change
- Need for education: patients, families, providers
- Genetic counselling capacity

Lessons Learned

CADTH and HTERP recognize Value

- Methodological rigor
- Unique evidence to inform deliberations and recommendations

Need to balance practicality and idealism

- Ideal methods versus what is feasible

Requires specialized skills and resources

- CADTH staff
- CADTH HTERP

Requires champions

- Buy-in at all levels
- Shift from clinical and economic focus

Summary and Moving Forward

- CADTH is now including a systematic review of patient preferences and experiences into assessments of medical devices, procedures, and programs
 - Stakeholder demand
 - Best practices
 - Inform assessments and deliberations
- Ongoing methods development, training, process refinement
- Most important outcome: we are doing it

CADTH HTERP

More information available at:

<https://www.cadth.ca/collaboration-and-outreach/advisory-bodies/health-technology-expert-review-panel>

CADTH HTERP Deliberative framework available at:

https://www.cadth.ca/sites/default/files/pdf/hterp/HTERP_DFW_e.pdf

A close-up photograph of a hand typing on a computer keyboard. The image is heavily stylized with a blue and green color overlay, creating a digital or data-themed aesthetic. The text is overlaid on the left side of the image.

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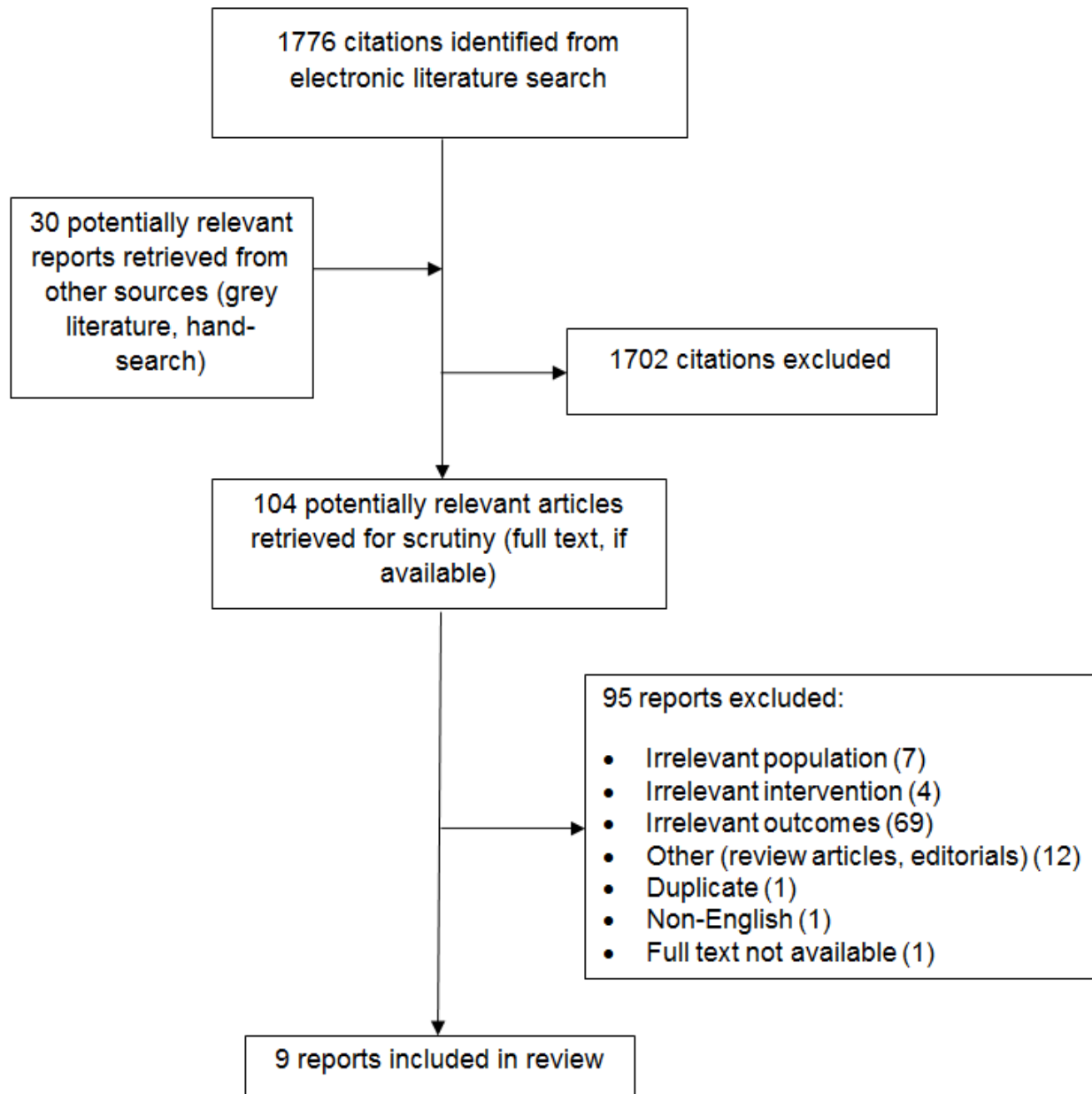
CADTH

CADTH Evidence
Driven.

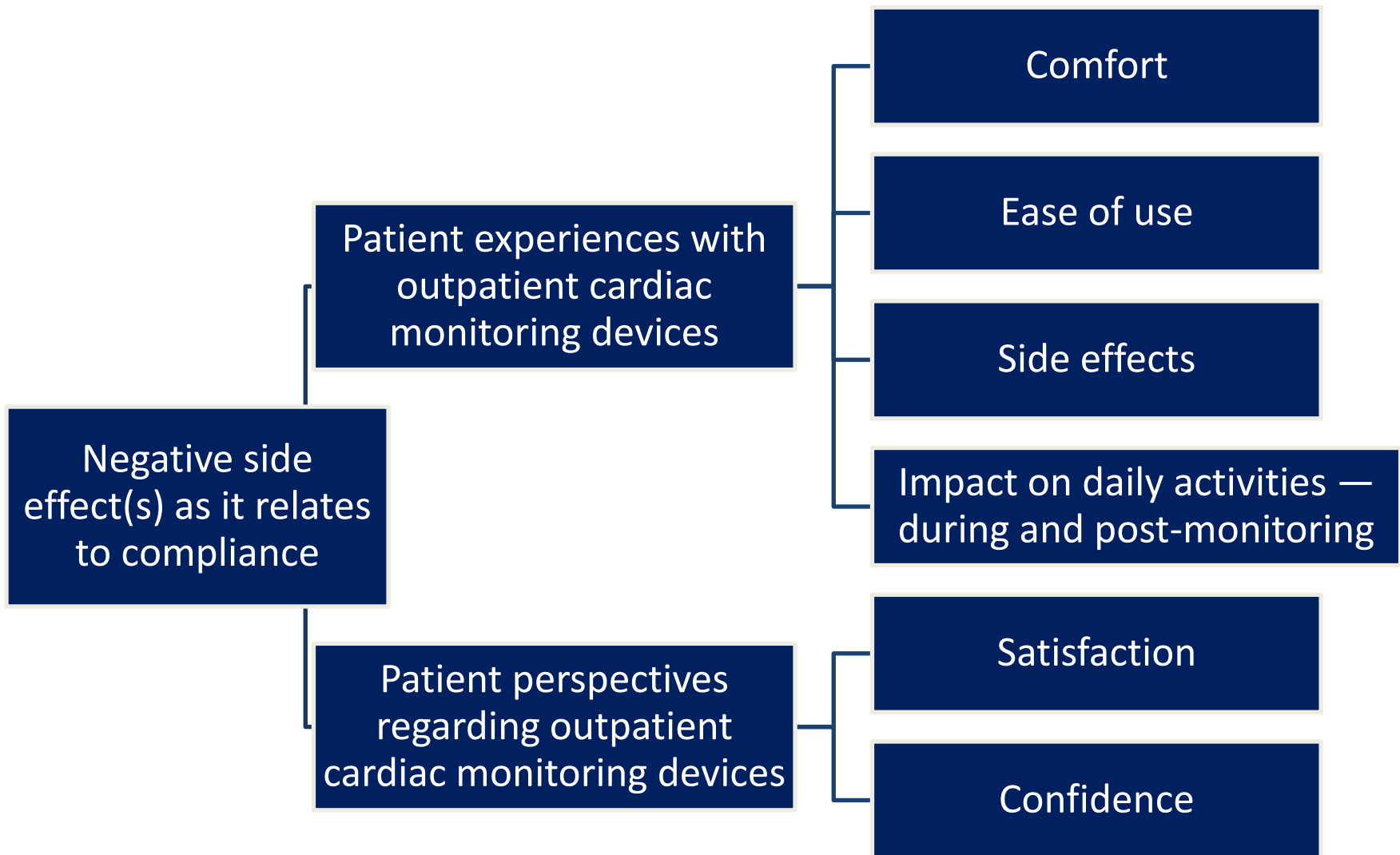
ACMETS Preuves
à l'appui.

E.g. 2: Monitoring for atrial fibrillation (AF) in discharged stroke and transient ischemic attack (TIA) patients

What are the perspectives and experiences of patients who have had a stroke and/or TIA, and caregivers, regarding the value and impact of outpatient cardiac monitoring devices for AF monitoring on their health, health care, and quality of life?



Results – Themes and Categories



What Did the Synthesis Add?

Not a lot of data BUT

- Raised the issues and made them part of deliberation
- Prompted clinical insight, based on experiences with patients

Context

- How experience could change, depending on results, during versus post-monitoring

Implementation

- Recommended length of monitoring