







# How to determine Research vs Quality Improvement projects: A Guideline and Checklist

# **Purpose:**

Differentiation between a research study and a quality improvement (QI) project can be difficult and confusing, as both involve implementing a change to address a problem and there can be overlap between their technical definitions. As such, guidelines and tools can be a helpful way for people to determine which category a project falls into. Upon completion of this checklist the user will be able to distinguish if the presented proposal is QI or research. QI will have and will not have certain elements that make it able to be exempt from an ethics review<sup>1,2</sup>.

	Research	Quality Improvement	
Purpose	A systematic investigation to establish facts, principles or	To implement knowledge, evaluate or improve a	
	contribute to generalizable knowledge.	process or program through established/ accepted standards.	
Design	Follows a rigid protocol that remains unchanged. Utilizes amendments.	Adaptive, iterative design with PDSA Cycles.	
Mandate	Activities not mandated by institution.	Activities are mandated by institution as part of operations.	
Starting Point	Knowledge-seeking is independent of routine care and intended to answer a question of test a hypothesis with the intention of contributing to generalizable knowledge.	Knowledge-seeking is integral to ongoing management system for delivering health care.	
Population	Usually involves a subset of	Includes information on all	

# **Characteristics of Research and Quality Improvement Projects:**

	individuals and specific	affected by process or	
	-		
Benefits	sample size.	program change receiving.	
Benefits	May or may not benefit	Immediately and directly	
	current subjects; intended to	benefits a process, system or	
	benefit future patients	program; might or might not	
		benefit patients	
Risks	May put subjects at risk with	No increased risk to patients, with exception of possible	
	consent		
		patients' privacy or	
		confidentiality of data.	
		Consent not always needed.	
Data Collection Strategy	Systematic data guided	Systematic data guided	
Testing or Analysis	Statistically prove or disprove	Compare program, process or system to establish	
	a hypothesis		
		standards	
Effect on program or	Findings of the study are	Finding of the study are	
practice	generally not expected to	expected to directly and	
	immediately affect or change	immediately affect	
	practice	institutional practice	
Adoption of Results	Dissemination of results may	Dissemination of results occurs rapidly and adopted	
	require more time		
		into local care delivery	
Endpoint	Answer a research question	Improve a program, process	
	and/ or invite critical	or system	
	appraisal of that conclusion		
	by peers through		
	presentation		
Publication/ Presentation	Intent to publish generally	Intent to publish may or may	
	presumed at the onset of the	not be presumed at the	
	project	onset of the project but QI	
		practitioners are encouraged	
		to share systematic reporting	
		of insights	
The table also is been done info	united a stant of frame. The Eth:		

The table above is based on information adapted from: The Ethics of Using QI Methods to Improve Health Care Quality and Safety<sup>3</sup> & Human Subject Research – vs. – Quality Improvement<sup>4</sup>

#### References:

- 1. Canadian Institutes of Health Research, Natural Sciences and Engineering Research Council of Canada, and Social Sciences and Humanities Research Council of Canada, Tri-Council Policy Statement: Ethical Conduct for Research Involving Humans, December 2010.
- 2. Ottawa Health Science Network Research Ethics Board
- 3. Lynn, J., Baily, M. A., Bottrell, M., Jennings, B., Levine, R. J., Davidoff, F., ... & Agich, G. J. (2007). The ethics of using quality improvement methods in health care. *Annals of internal medicine*, *146*(9), 666-673.
- DHA Human Research Protection Program. (2013). Issue: Human Subject Research versus Quality Improvement Activity [PDF]. Retrieved from <u>https://health.mil/Reference-Center/Fact-Sheets/2015/10/13/Human-Subjects-Research-versus-Quality-Improvement-Activities</u>.

Consideration	Question	Yes	No
PURPOSE	<ul> <li>Is the primary aim or motive of the project either to:</li> <li>Improve care right now for the next patient seen?</li> <li>OR</li> <li>Improve operations or efficiency?</li> </ul>		1
RATIONALE	Is there sufficient evidence for, or acceptance of, this mode or approach to support implementing this activity or to create practice change, based on:		
METHODS 1	Are the proposed methods flexible and customizable, and do they incorporate rapid evaluation, feedback and incremental changes?		
METHODS 2	<ul> <li>Do the methods include any of the following?</li> <li>Control group</li> <li>Randomization</li> <li>Fixed protocol</li> </ul>		
RISK	Is the risk related to the project minimal and no more than usual care (including the unavoidable minimal risk in implementing any changes made in processes of care)?		
PARTICIPANTS	Will the activity only involve participants (patients, parents, or WDMH or partners staff) who are ordinarily seen, cared for, or work in the setting where the activity will take place?		
FUNDING	<ul> <li>Is the project funded by any of the following?</li> <li>An outside organization with an interest in the results</li> <li>A manufacturer with an interest in the outcome of the project relevant to its products</li> <li>A non-profit foundation that typically funds research, or by internal research accounts</li> </ul>		
If all of the check marks are inside the shaded gray boxes, then the project is very likely QI and not human subjects research. Projects that are not human subjects research do not need review by the REB.			
	the project changes it is recommended to refer back to this ssess the need for an ethics review if uncertain if still a QI		

# Checklist: \*

\*The table above is adapted from: Children's Hospital of Philadelphia Research Institute - IRB

An inquiry can be made by email to the WDMH ethics committee by emailing research@wdmh.on.ca

## Characteristics of a QI project that do not determine the need for REB Review:

- Intent to publish both QI and research may be published.
- Process of data collection both QI and research may include prospective or retrospective data collection and may collect data on living/deceased individuals.

## **Clarifications for publishing QI work:**

- Do not refer to QI projects as research in publications or presentations.
- If the project was not submitted to the REB for determination, the following statement may be included in the manuscript: *"This project was undertaken as a Quality Improvement Initiative and as such does not constitute human subjects research."*
- If the project was reviewed by the REB and was determined not to be human subjects research, the following statement can be included in the manuscript: *"This Quality Improvement Initiative was reviewed and determined to not meet the criteria for human subjects research by the Winchester District Memorial Hospital Research Ethics Board."*

#### Declaration

- I confirm that the information answered above is true and is an accurate reflection of the project.
- If the project is determined to be a quality improvement project, it will be exempt from an ethics review/ approval process.

Name (Printed)

Signature

Date