

# Quality Improvement: To IRB, or Not to IRB, That Is the Question

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### Objectives

- Describe an IRB, quality improvement activities, and human subject research
- Identify how quality improvement activities and human subject research intersect
- Describe an ethical oversight process for quality improvement activities





#### What is an IRB?

The IRB is an established administrative body mandated by federal regulations to assure that appropriate steps are taken to protect the rights and welfare of human research subjects recruited to participate in research activities

The IRB's function is derived from the DHHS Regulations, Title 45 of the Code of Federal Regulations Part 46 (45 CFR 46)= The Common Rule

(Department of Health and Human Services [DHHS], 2018)



#### Design Definitions

What is Human Subject Research?

"systematic investigation, including research development, testing and evaluation, designed to develop or contribute to generalizable knowledge" What is Quality Improvement?

Systematic, data-driven activities designed to target immediate improvements in health care delivery or outcomes in a local setting



### Research vs. QI: Key Differences

	Research	Quality Improvement
Purpose	Develop or contribute to generalizable knowledge	Improve a process or performance of established standards
Outcome	Generalizable	Relevant to single site
Benefits	May or may not benefit subjects	Benefits a process or program and usually benefits patients
Risks	May put subjects at risk	Low risk to subjects, may have privacy concerns
Methods	Strict protocol	Protocol may need modifications over time
Results	Answer a research question or hypothesis	Improves or creates process/system/program to improve delivery of care, safety, satisfaction



## The Gray Area

DHHS does not define what constitutes "generalizable knowledge." Lack of clarity requires IRBs to interpret the definition of research and distinguish boundaries of QI and human subject research.

When projects share elements of QI and human subject research, ethical concerns and regulatory oversight become entangled.



# Quality Assurance and Quality Improvement Projects CUHSR Application

- Pilot new application with nursing department for QA/QI projects starting fall 2019 to provide ethical oversight
- Reviewed by CUHSR committee chair
- Determines if project is research or QA/QI
- Human interaction at or below minimal risk

For CUHSR office use Only	CUSHR #	Date Received in Office	
YES - CITI Certificates (or othics to Certificates are missing)	craining certificates) on file for all on th	ne study team (The application will be returned to the PLIF CTT)	
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# QA/QI IRB Application

- Ensure basic human protections
  - Consent process
    - Autonomy
    - Truthfulness (risks/benefits)
  - Protection of privacy
    - HIPAA
    - Data access and security

project (fewer than 50 words) Example 1 – workers at an insurance company will take an anonymous survey to determine their satisfaction with HII practices. Example 2 – Nurses in a clinic will be trained in reducing vaccination errors. Retrospective chart reviews will occur measuring vaccination errors before and after the training.

- 1.0 PROJECT DETERMINATION & CHARACTERISTICS is your project QI/QA or is it research. Answer the following questions.
  - 1.1 Must Check: YES NO HUMANS SUBJECTS: Will the project be obtaining information about living individuals or biospecimens? [Checking yes mean the project involves human subjects]
    - 1.1.1 Must Check: YES NO Will the project obtain information or biospecimens through intervention (physical procedures by which information or biospecimens are gathered and manipulations of the subject or the subject's environment) and uses, studies, or analyzes the information or biospecimens?
  - 1.1.2 Must Check: ☐ YES ☐ NO Will the project obtain information or biospecimens through interactions (communication or interpersonal contact between investigator and subject) and uses, studies, or analyzes the information or biospecimens?
  - 1.1.3 Must Check: YES NO Will the project obtain, use, study, analyze, or generate identifiable private information or identifiable biospecimens (identifiable: that which the identity of the subject is or may readily be ascertained by the investigator or associated with the information).
  - 1.2 Must Check: YES NO RESEARCH: Is the intent of your project to systematically [systematic: could mean hypothesis testing, randomization, concern for validity] investigate a question including research development, testing, and evaluation, designed to develop or contribute to generalizable knowledge [generalizable widely applicable], typically, but not always, culminating by sharing the results in a public presentation or publication? [Checking yes indicates that your project is research defined by the federal government. If 1.1 and 1.2 are affirmed, then you project is considered human subjects research and must be reviewed as research by an IRB. STOP HERE and fill out a CUSHR application for research or contact the chair of CUHSR]
  - 1.3 Must Check: UFS NO Will the project use and experimental drugs, devices or biologicals?

    1.4 Must Check: WES NO Will individual's identities be readily ascertained or associated with the information gathered or with the biospecimens?
  - 1.5 Must Check: YES NO Will any disclosure of the participant's response outside of the project place the participant at risk of criminal or civil liability or be damaging to the subjects' financial standing, employability, educational advancement, or reputation?

[If YES is checked to 1.3, 1.4, 1.5, it may not be considered QI/QA depending on the nature of the interaction. STOP HERE and fill out a CUSRH application for research or contact the chair of CUHSR]

In any QI or QA project the human interaction should be below the level of or minimal risk and should generally, if submitted as human subject research, be exempt from the standards of the federal regulations regarding human subjects research. However, participants in QI/QA projects are still afforded basic human protections (informed consent and protection of privacy).

- 1.6 Must Check: ☐ YES ☐ NO Will the human interaction involve vulnerable populations (such as children under 18 years old, impaired decision-making capacity in adults, pregnant women, disabled individuals, prisoners). [depending on the nature of the interaction it may or may not qualify for QI/QA additional safeguards will need to be in place]
- 1.7 Must Check: YES NO Will the human interaction with the participants be reasonably free from harm and discomfort and any harm or discomfort be no more than a person might experience in daily life (Harm or discomfort can be psychological, social, legal, economic and reputational as well as physical)?

  1.8 Must Check: YES NO Is the intent of your project to gather information in order have a better understanding of a process or to understand how a process may be improved, typically applicable to a single setting. This intent is typical of a QI/QA projectl.

Developed by Dr. Andrew Struhbar, PhD, PT Chair Committee on the Use of Human Subjects in Research

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