



# Research Ethics, Human Research Protections and Institutional Review Boards

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# Agenda

*History of Misconduct in Research*

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*Guidelines/Principles*

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*Federal Regulations*

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*Definitions*

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*Institutional Review Board*

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*Types of Studies*

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*CWRU IRB Protocol Submission*

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*Approved IRB Protocol*

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# **History of Misconduct in Research**

# History of Misconduct in Research

- 1932-1972: Public Health Service Untreated Syphilis Study
- 1942-1945: Nazi Experiments (WWII)
- 1962: The Thalidomide Tragedy
- 1963: The Milgram Study
- 1963: Willowbrook Study

# USPHS- Untreated Syphilis: 1932-1972

- Observation of natural course of disease
- Informed Consent was not obtained
- Being treated for “bad blood”
- In exchange:
  - Free medical exams
  - Free meals
  - Free burial insurance



# USPHS- Untreated Syphilis: 1940's

- Penicillin safe/effective treatment
- Denied treatment & study continued
- 1972
- Tuskegee Health Benefit Program
- 1975

# What is Common Thread?

“The participant did not freely and knowingly volunteer for the research because pertinent information was withheld that, if known, would have compelled a refusal to participate in the study.”

# History

## PRINCIPLES / GUIDELINES

- **1947: Nuremburg Code**
- **1964: Declaration of Helsinki (WMA)**
- **1979: Belmont Report (National Committee)**  
**(autonomy, beneficence, justice)**
- **1990: ICH Guidelines / “GCP”**
- **1995-01: National Bioethics Advisory Committee**
- **1990: National Committee for QA (VA)**
- **2001-06: President Council on Bioethics**
- **2001: Association for Accreditation of Human Research Protection Program (AAHRPP)**
- **2006: Secretary Advisory Comm. on Human Research Protections (SACHRP)**

**2000: HIPAA**

## REGULATIONS

**1966: NIH requires IRB approval**

**1981: CFR 45, Part 46**

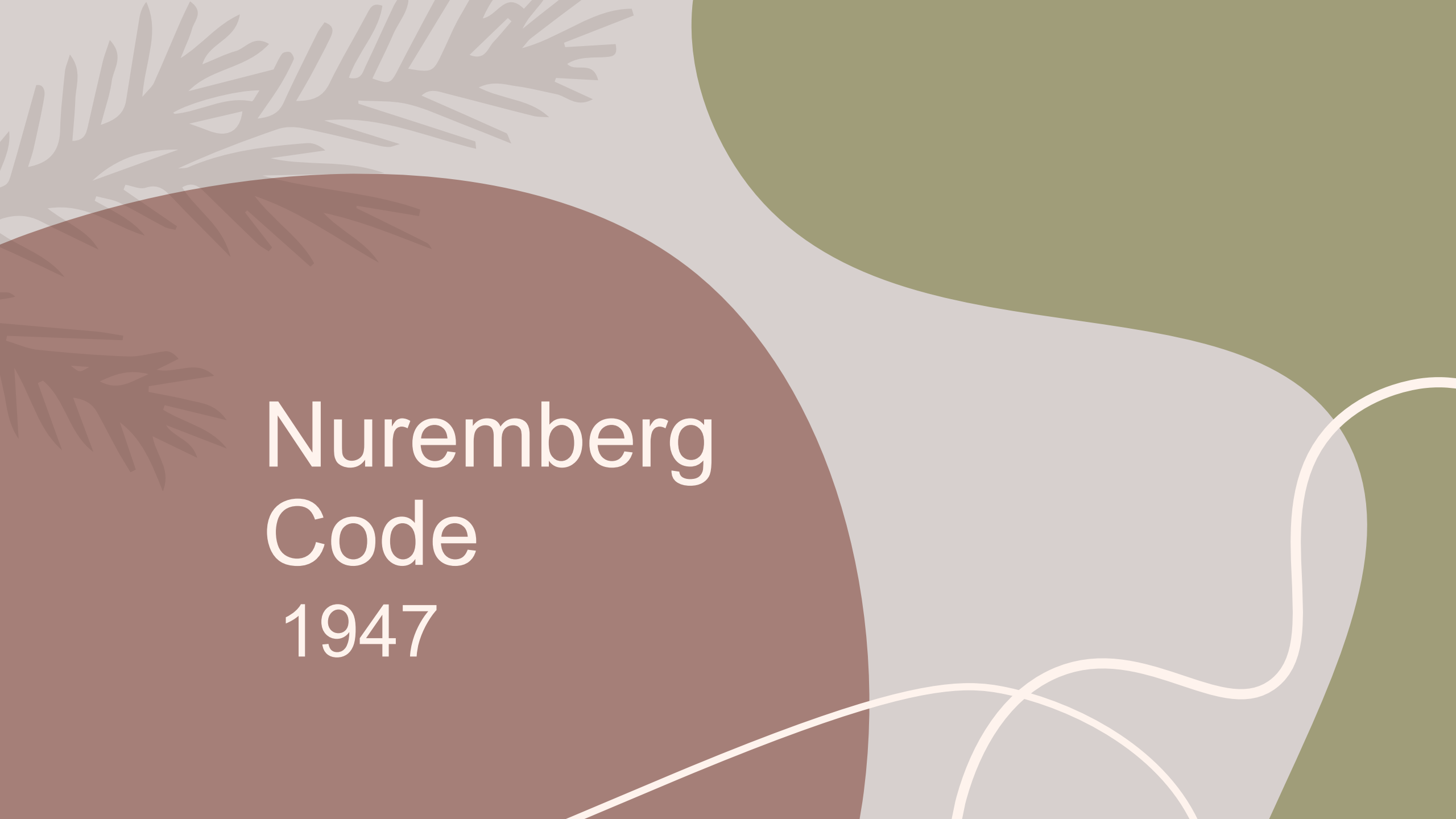
**1986: CFR 21, Part 50**

**2019: Revised Common Rule**



# Historical Background

- World War II turning point in establishment of national and international guidelines
- Many guidelines have been developed
- Some provide broad standards, others specific to research on diseases (e.g.; WHO guidelines for HIV AIDS)



Nuremberg  
Code  
1947

# Nuremberg Code

- The voluntary consent of the human subject is “absolutely essential” - research subjects should have legal capacity to consent
- Research subjects “should be so situated as to be able to exercise free power of choice”

# Principles of Nuremburg Code

- Informed consent should be **obtained without coercion**
- **Qualified scientists** should conduct research
- Physical and mental suffering and injury must be avoided
- **No expectation of death or disabling injury**

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# Declaration of Helsinki 1964 and revisions 2013

# Declaration of Helsinki

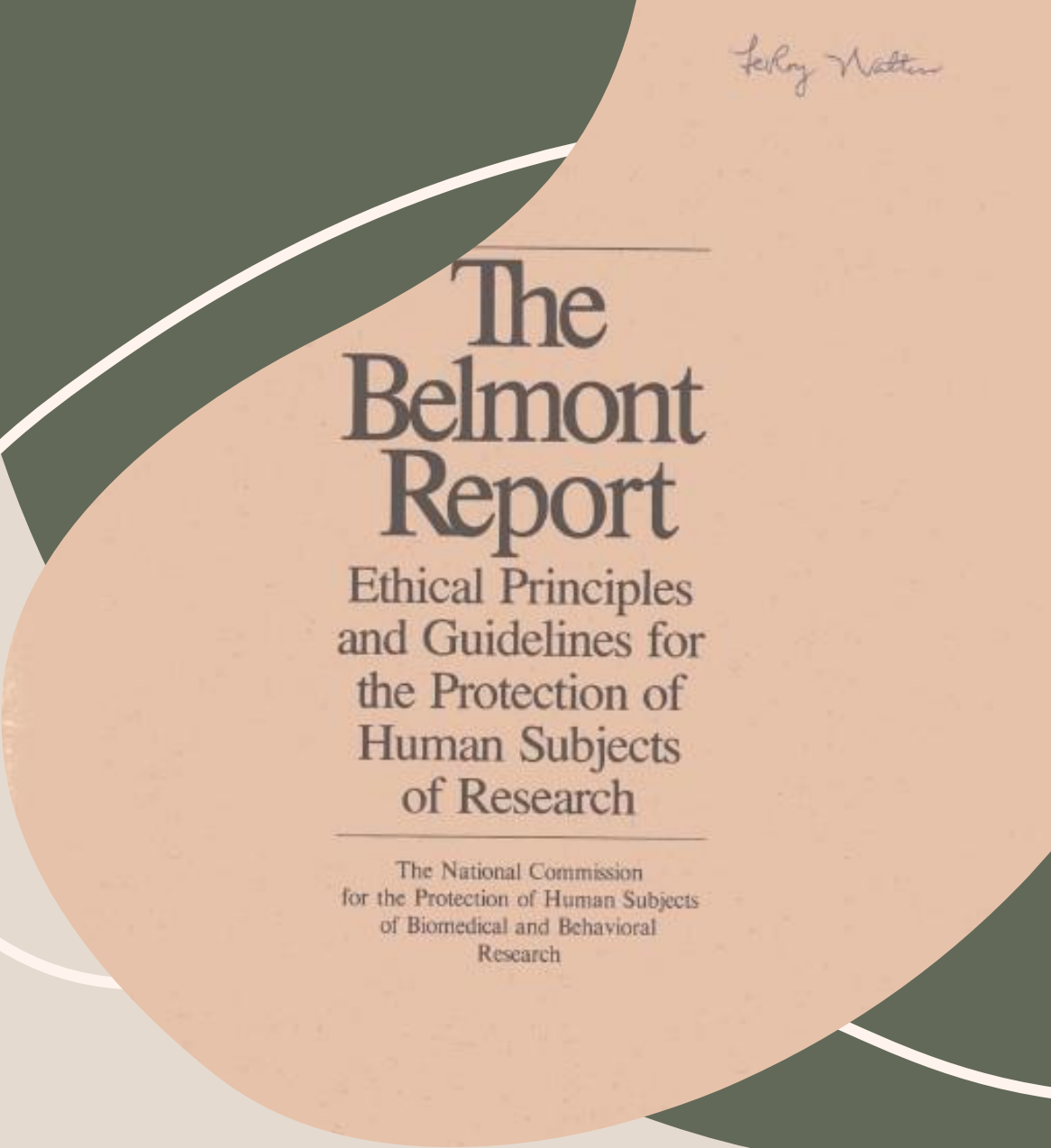
- **World Medical Association (WMA)**
- Modeled on **Nuremberg Code**
- **Requires** qualified investigators, and consent of subjects
- *1975 revision* recommend review of research by an independent committee



# Belmont Report 1979

# Bioethics Commission

- Charged with identifying the basic ethical principles that should underlie research with human participants
- Summarizes the basic ethical principles identified by the Commission

The image shows the cover of 'The Belmont Report' document. The title 'The Belmont Report' is prominently displayed in a large, serif font. Below it, the subtitle 'Ethical Principles and Guidelines for the Protection of Human Subjects of Research' is written in a smaller, sans-serif font. At the bottom, the text 'The National Commission for the Protection of Human Subjects of Biomedical and Behavioral Research' is visible. The cover has a light beige background with a dark green abstract shape on the right side.

## The Belmont Report

Ethical Principles  
and Guidelines for  
the Protection of  
Human Subjects  
of Research

The National Commission  
for the Protection of Human Subjects  
of Biomedical and Behavioral  
Research



# Ethical Principles of Belmont Report

## Respect for Persons

**Beneficence**







**Justice**

# Ethical Framework- Belmont Report

## Belmont Report (Principles):

## Federal Regulations:

<b>Respect for Persons</b>		<b>Informed Consent</b>
<b>Beneficence</b>		<b>Assessment of Benefits and Risks</b>
<b>Justice</b>		<b>Selection of Subjects</b>



United States Federal Regulations for  
Human Research  
\*Common Rule\*  
45 CFR 46  
1981

# Common Rule- 45 CFR 46

**Part A-** IRBs, Institutions and Researchers

**Part B-** Pregnant women, human fetuses, and neonates

**Part C-** Prisoners

**Part D-** Children

# Changes to Common Rule- 45 CFR 46

- Expansion of exempt categories, emphasis on low risk
- Eliminate continuing review requirement for studies that undergo expedited review
- US institutions, collaborative research, only one IRB

The background features a light grey base with several organic, rounded shapes in muted colors: a large brown shape on the left, a green shape in the top right, and a light grey shape in the bottom right. A white, wavy line curves across the bottom right. In the top left, there is a faint, grey silhouette of a pine branch. The word "Definitions" is centered in white text on the brown shape.

# Definitions

# “Research”

- Systematic investigation  
(includes research development, testing and evaluation)
- Designed to develop or contribute to generalizable knowledge

# “Human Subject” (OHRP)

- Living individual
- About whom an investigator conducting research obtains **either**:
  - Data through intervention or interaction with the individual **OR**
  - Identifiable private information



# “Risk” (OHRP)

- Probability of harm or injury occurring as a result of participation in a research study
- Risk can include:
  - Physical
  - Psychological
  - Social
  - Economic

# OHRP- Defining Minimal Risk: 46.102(i)

“Minimal risk means that the probability and magnitude of harm or discomfort anticipated in the research are not greater in and of themselves than those ordinarily encountered in daily life or during the performance of routine physical or psychological examinations or tests.”

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# Institutional Review Board: IRB

# Institutional Review Board (IRB)

- Independent group
- Charged with reviewing research
- Ensure that human subjects' rights and welfare are adequately protected

# IRB's Purpose & Responsibilities

- Federal Regulations
- Protect human subjects (harm)
- Support and facilitate the ethical conduct of human research (rights & integrity)
- Assure institutional compliance with regulatory agencies
- Assist investigators in complying with the ethical and regulatory standards

# Criteria for IRB Approval

- Risks Minimized
- Risk-Benefit Ratio Reasonable
- Equitable Selection of Subjects
- Privacy / Confidentiality
- Data Safety Monitoring
- Informed Consent Sought
- Informed Consent Documented
- Additional Protections for “Vulnerable Populations”



# Belmont Report

- Respect for Persons



- Beneficence
  - Maximize benefits and minimize harms
  - Importance of good methodology- yield benefits to society
- Justice

# Risks are Minimized

- Procedures are consistent with sound research design and subjects are not exposed to unnecessary risks
- Use procedures already being performed on subjects for diagnostic or treatment purposes



# Belmont Report

- Respect for Persons
- Beneficence
- Justice
  - Moral requirements- fair procedures and outcomes in the selection of research participants
  - Equitable distribution of burden of research and anticipated benefits
  - Who is likely to benefit from the outcomes



# Justice

Ensuring fair and equal administration of non-exploitative and well-considered procedures to potential research participants



# Justice

- Moral requirements- fair procedures and outcomes in the selection of research participants
- Equitable distribution of burden of research and anticipated benefits
- Who is likely to benefit from the outcomes?

# Equitable Subject Selection

- Equitable Selection does not mean that all groups are represented in proportion to the population
- Selection criteria should be both fair and appropriate to the research question
- No group should be unduly burdened or will unfairly benefit from the research

# Equitable Selection of Subjects

- Age
- Economic Standing
- Ethnicity
- Gender
- Language
- Literacy
- Race

# Belmont Report



- Respect for Persons
  - Self-determination
  - Decision making
  - Individual autonomy
  - Protection of individuals with reduced autonomy
- Beneficence
- Justice

# Respect for Persons

There are three considerations:

- Protecting the autonomy of a patient  
(the ability to make decisions voluntarily without coercion)
- Protecting patients with diminished autonomy  
(e.g.; mental disorders, children, extremely ill)
- Being truthful and conduct no deception

# Informed Consent Process

## Purpose:

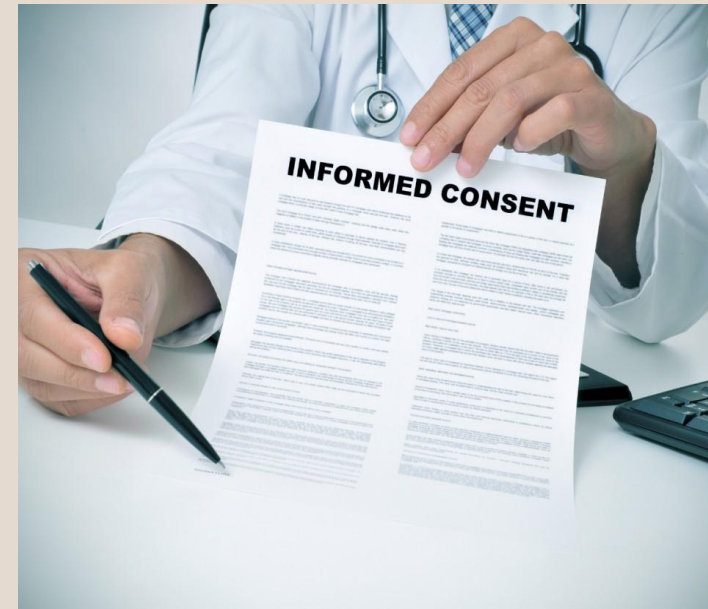
To ensure knowledgeable decision making  
and voluntary participation



# Informed Consent

Informed consent process involves:

- ❖ Providing adequate information
- ❖ Providing other options
- ❖ Providing the opportunity to withdraw
- ❖ Ensuring full comprehension by the participant
- ❖ Responding to questions
- ❖ Obtaining voluntary participation



# Key Information Section

1. Purpose of the research
2. Major study activities in lay terms, and expected duration of participation
3. Primary reason a person might want to participate (benefits)
4. Primary reason a person might not want to participate (risks)
5. Please refer to the Detailed Consent for additional information

# Eight Basic Elements of Consent

1. Statement that the study is research
2. List of risks or discomforts
3. Any benefits
4. Information on how the research data will be kept confidential
5. If there is additional risk in participating in the study, what other options a person might have

# Eight Basic Elements- continued

6. Contact information for someone a participant can contact if they have questions or concerns
7. Statement that participating in the study is completely voluntary
8. When identifiable information is collected, there must be a statement regarding any use of the information in the future

# Additional Information (as applicable)

- Risks that are currently unforeseeable
- Termination of participation
- Withdrawal
- New findings which might impact participation
- Number of participants
- Commercial profit from biospecimens
- Incidental findings

# Compensation

- **[If there are no costs to the subject:]** There will be no costs to you for study participation.
- ***[If there is a cost, please delete the previous sentence and explain the cost to subjects.]***
- ***[If subjects will not be compensated]***
- You will not be compensated for your participation in this research study.
- ***[If no reimbursement will be provided]***
- You will not be reimbursed for any out-of-pocket expenses, such as parking or transportation fees.

***[If subjects will be compensated and/or reimbursed]***

• You will receive the following compensation/reimbursement: ***[Insert amount of payment information, payment method (i.e., class credits, gift cards, parking fees, etc.), as well as when payment will occur. Add information if compensation will be altered or pro-rated if a subject chooses to withdraw.]***

For example:

- You will receive \_\_\_\_\_ for your participation in this study. ***[Example: a \$5 gift card to a local merchant, or: you will be entered into a raffle to win 1 of 10 Amazon gift cards worth \$100; chances of winning are approximately 1 in 100.]***
- You will receive \_\_\_\_\_ for each \_\_\_\_\_ you complete. ***[Example: you will receive \$5 for each survey you complete]***. There are ***[Enter # and type of study components.]*** Total compensation for participation in this study is ***[Enter total compensation for completion of the study.]*** If you decide to withdraw from the study or are withdrawn by the research team, you will receive compensation for the visits that you have completed.

# Submission Guidelines: Informed Consent Document

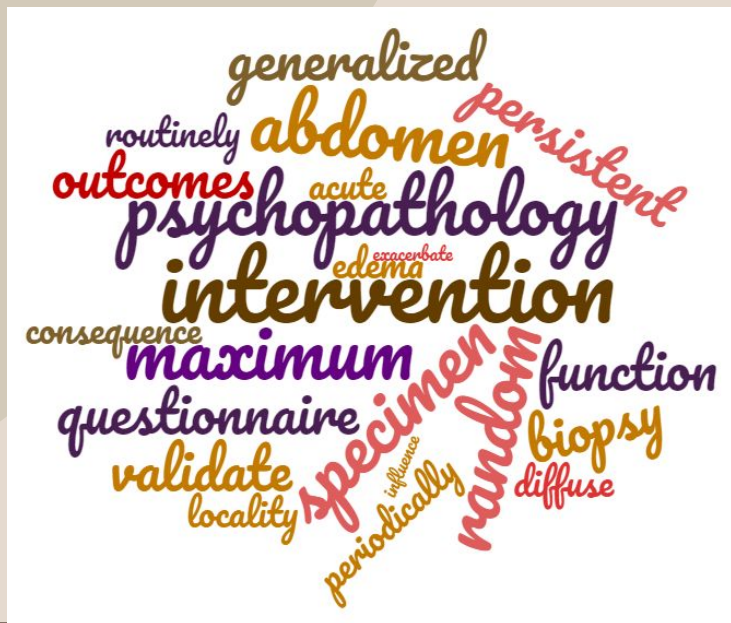
- Translating a complex scientific project into lay language can be difficult
- Must be presented in language subject can understand
- May be delivered using non-traditional formats, such as video, website, etc (*check specific IRB rules*)
- May be provided by “legally authorized representatives”



# Readability

- Recommend an 8th grade reading level
- Use common, everyday words
- Write in second person, and use active voice

Instead of:

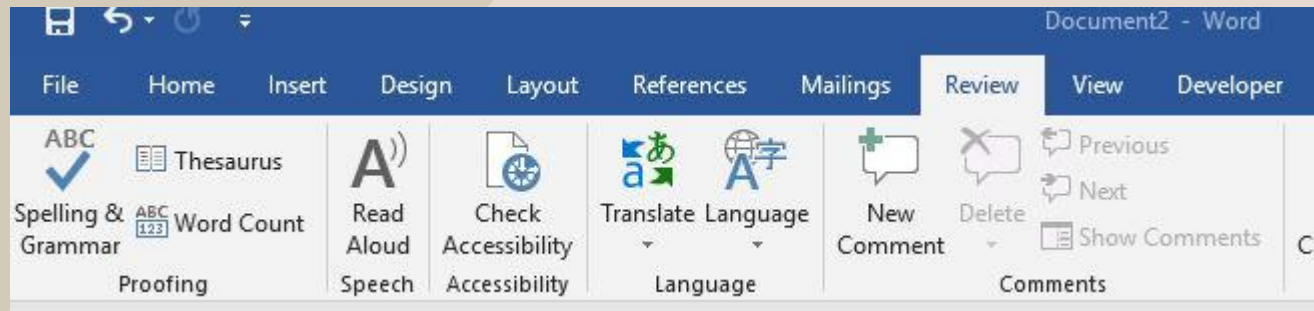
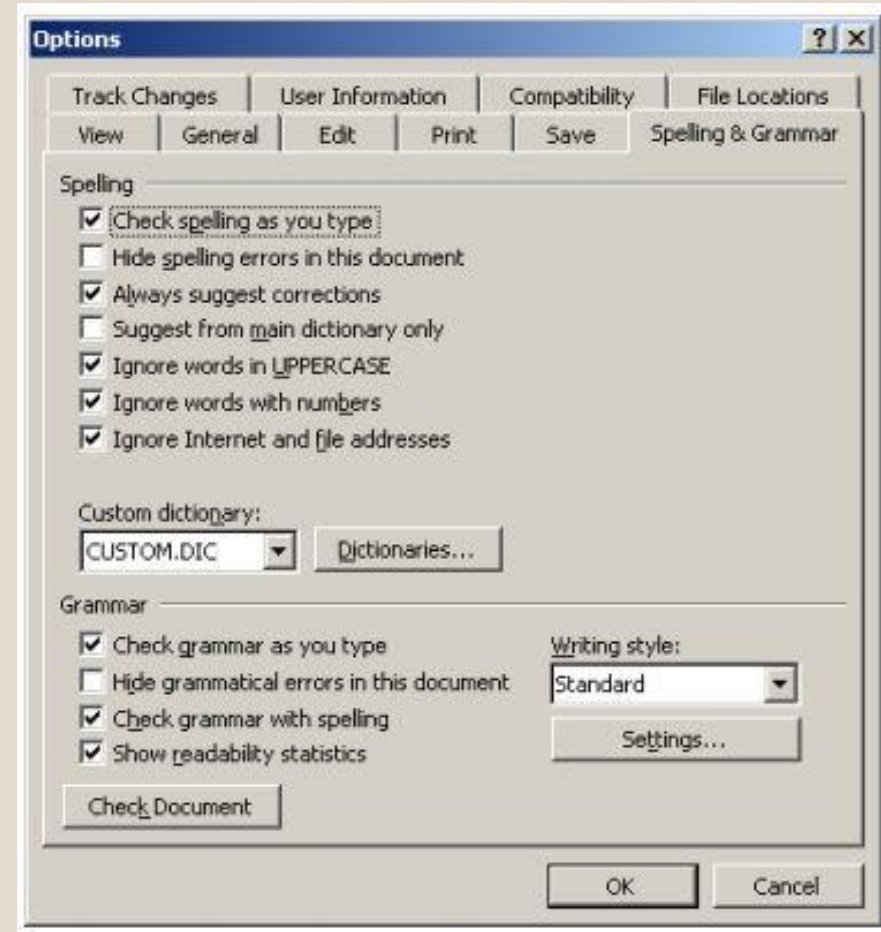


Use:



# Readability

- Tools built into Word:
- Flesch-Kincaid Reading Level
- Flesch Reading Ease



# ICD- Study Purpose

- *KEEP IT SIMPLE!*

- Examples:

“The purpose of this study is to investigate the cognitive-behavioral influences on medication adherence.”

- *BETTER:*

“This is a research study to learn more about how people manage their illness and the medicines they take.”

# Visual Appealing

- Use pictures and/or graphics
- Help explain more complex procedures
- Make a document feel less intimidating
- Use of white space on page
- Headers
- Use of tables if the study involves multiple visits with different procedures
- *65% of the population are visual learners*



# Submission Guidelines: Informed Consent Form

- May be waived altogether, with IRB permission
- May have attachments
- May need to be repeated over course of study, especially if cognitive abilities of subjects change or study data result in new relevant information
- Must disclose conflict of interests

# Informed Consent Form (ICF)



As a part of the criteria for IRB approval (46.111(a)(4-5)), the IRB will need to verify that all the required elements of consent are present (or appropriate justification has been given for a waiver).

# Privacy

## Privacy - Physical Surroundings

- Interviewing subjects in a public vs. private setting (waiting room vs. closed exam room)
- “The subject will fill out the questionnaire at their home or in a location of their choice.”




# Confidentiality

**Confidentiality** - Tactics used to limit the risk that research DATA will be observed by anyone other than the researchers.

- Coding data
- Password protection
- Secure servers
- Locked file cabinets





The background features a light grey base with large, overlapping organic shapes in muted green and brown. On the left, there are stylized, layered patterns of foliage in shades of grey and brown. A white, wavy line curves across the bottom right portion of the image.

# Vulnerable Populations

# Vulnerable Populations

## Federally regulated protections

- Pregnant women, human fetuses and neonates- Subpart B
- Prisoners- Subpart C
- Children- Subpart D

# Vulnerable- Special Populations

- Decisionally-impaired subjects
- Physically-challenged subjects
- Faculty Members
- University Students
- Employees

# Vulnerable Populations:

children, students, acutely ill, cognitive impairment

- Limits to ability to protect self
- **Additional regulations**
- Justification
- Procedure for assessing capacity
- Extra measures to avoid coercion
- Surrogate consent
- Limits to acceptable risks
- Limits to acceptable compensation

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# Types of Research

# When to apply for IRB Approval?

- Before conducting human research activities
- When applying for funding...
- Students

# What Happens if Human Research is Conducted without IRB Approval?

- Common Rule- Regulations
  - Site the conduct of human research without IRB approval as Serious Non-compliance
- IRB Full Board makes determinations
- Impact on Conducting Research- Reportable Event

# When unsure...

- Contact the IRB Office
- [cwru-irb@case.edu](mailto:cwru-irb@case.edu)
- IRB Website: Contact Information



# Terminology- Always Ask!

- **Not human subjects:** Not intended to produce generalizable data (e.g.; QI, single case report)
  - Not involving living persons, or not involving any contact with living person and no identifying data
  - Research that uses publicly available data
- **Exempt Review Category:** research that uses anonymous or identifiable low-risk surveys, educational evaluations, etc

# Exempt Review Category (continued)

**Exempt with Limited Review:** Ensure adequate Privacy and Confidentiality Safeguards for Identifiable Private Information:

#2: Surveys, Interviews, Educational Tests & Observation of Public Behavior

#3: Benign Behavioral Intervention

# Terminology

- **Expedited Review Category:** Research that poses less than minimal risk, reviewed by IRB chair/vice-chair/ IRB member (e.g. record review, survey, non-invasive)
- **Full Board Review:** Research that is greater than minimal risk or does not fit in any of the Expedited Categories.

# NIH Definition- Clinical Trial

A research study in which one or more human subjects are prospectively assigned to one or more interventions (which may include placebo or other control) to evaluate the effects of those interventions on health-related biomedical or behavioral outcomes.

# Research vs Quality Improvement vs Case Study= Murky territory

**Research:** “Systematic collection of data for the purpose of producing generalizable knowledge”

**Quality Improvement:** Systematic collection of data for the purpose of improving performance of one specific entity

**Case study:** Report of 1 or 2 de-identified cases, for the purpose of illustration or learning

\*All of these types of Research requires a “Determination” by the IRB

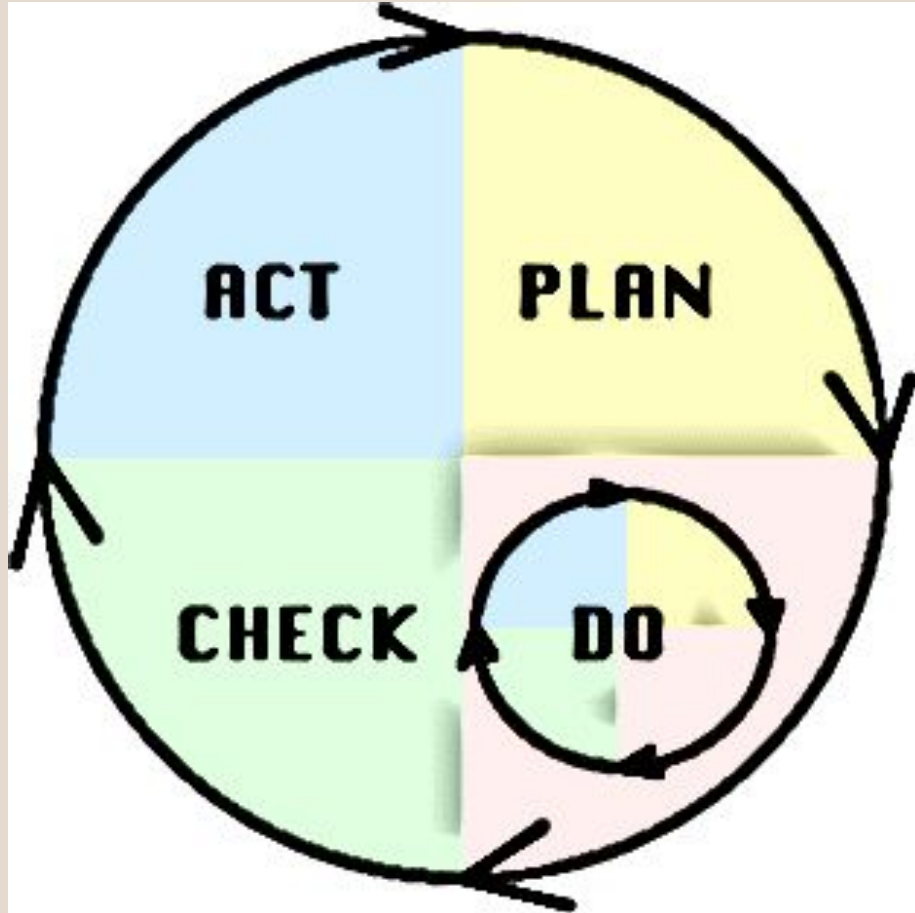
# Important Questions to Ask

What are you trying to accomplish?

How will we know that a change is an improvement?

What changes can result in improvement?

# Deming PDSA Model



***Plan*** – Analyze and solve the problem

***Do*** – Implement the solution

***Study*** – Measure the change

***Act*** – Modify as needed

# Medical Records = PHI

If accessing medical records

-and-

No contact with participant:

- Waiver of Informed Consent
- Waiver of HIPAA authorization



# Secondary Data Analysis

- Review of existing data for a specific purpose
- If data de-identified = consult IRB office

# Conducting Research- Part of Larger Study

- Student dissertation
- Use of Data- Faculty Advisor Collected
- Recommendation- Consult with IRB Office

# Difference between Data

- Anonymous
- De-identifiable
- Identifiable
- Restricted

# Remote Data Collection

- Protocol should describe how you will be collecting data, and the remote platform being used.
- Be sure to follow current best practices issued by CWRU UTech for these remote platforms to ensure privacy and data security.

# Remote Data Collection

## ***Recommendations:***

- For surveys: Qualtrics and CWRU REDCap
- For interviews: CWRU Zoom and phone

# Identifiable Data

- Audio Recordings
- Video Recordings
- Zoom Recordings

# Data Storage

- Privacy and confidentiality provisions remain critically important at all times, even when working remotely.
- Please note, collection, transmission, or access to private identifiable data or protected health information, must comply with university and other policies for security of research data.

# Data Storage

- Remote interactions that will collect or transfer private identifiable information or protected health information should use technology that is IT secure or HIPAA compliant (e.g., CWRU REDCap, CWRU Box).
- Do not store private identifiable information or protected health information on unsecure devices in order to work remotely.
- Use University-approved BOX services and VPN access while working remotely instead of storing data directly on personal devices.



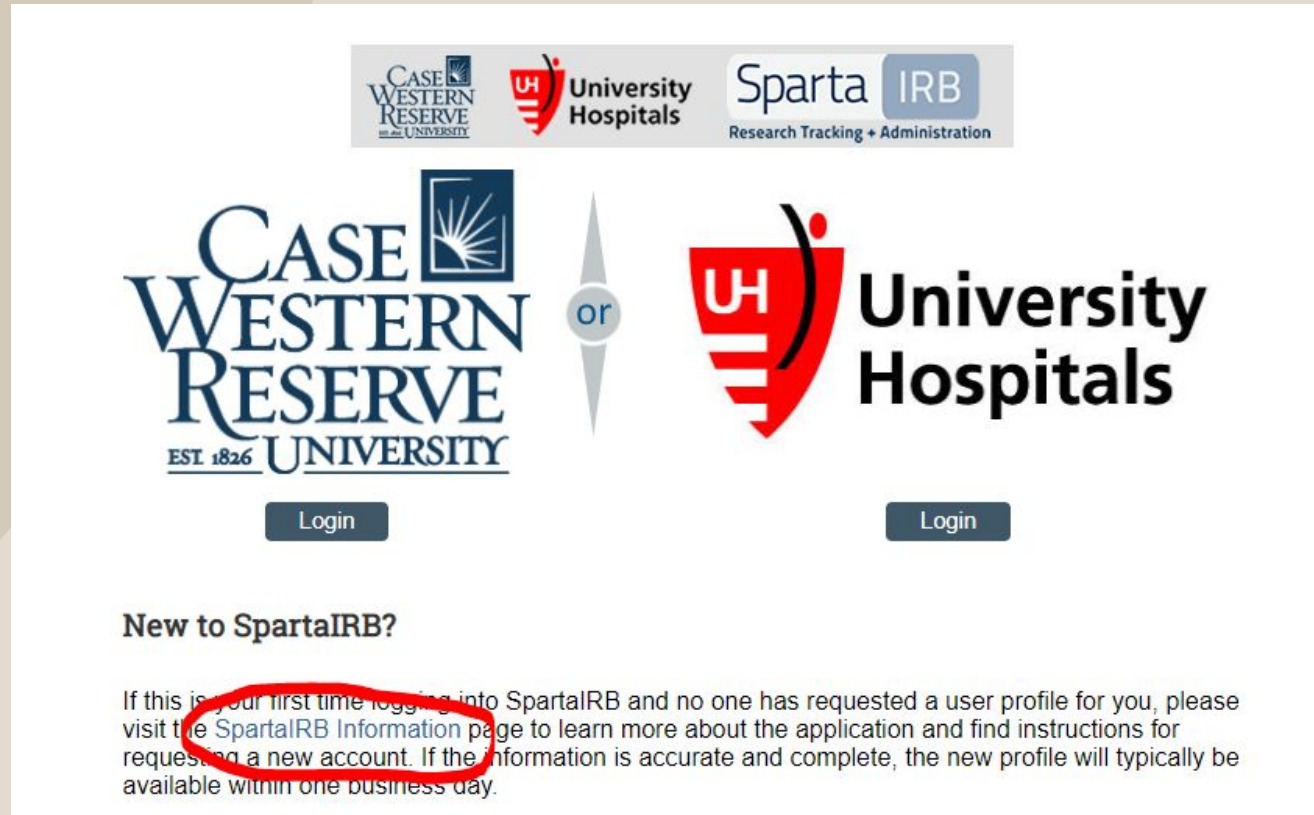
# Submission Guidelines

- Request for SpartIRB Account to be created
- Allow enough time
- Prepare the protocol
- Write the informed consent form (ICF)
- Obtain necessary approvals / support letters
- Submit electronically through the SpartalRB system  
(User ID = Your Case ID)

# Before Submitting Protocol Submission

- Access SpartaIRB
- Complete Smart form- Few questions that give overview of protocol
- Choose Protocol Template
- Required Chair/Departmental sign-off

# SpartaIRB System



CASE WESTERN RESERVE UNIVERSITY  
University Hospitals  
Sparta IRB  
Research Tracking + Administration

CASE WESTERN RESERVE UNIVERSITY  
EST. 1826 UNIVERSITY

or

University Hospitals

Login

Login

**New to SpartaIRB?**

If this is our first time logging into SpartaIRB and no one has requested a user profile for you, please visit the [SpartaIRB Information](#) page to learn more about the application and find instructions for requesting a new account. If the information is accurate and complete, the new profile will typically be available within one business day.

» **My Inbox** IRB

Submissions Meetings Reports Institutional Profiles **Library** **Help Center**

## IRB

View all submissions (based on your permissions) by **All** (all submissions in any state); **In Process** (items in Pre-Submission or awaiting action); **Approved** (items in Approved, NHR or Lapsed states); **RNI** (Reportable New Information submissions); **External IRB Studies**; **Sites** (related submissions for each research site on an external study) and **Archived** (submissions that have been Discarded or Closed).

**Create New Study** IRB Tasks All In Process Approved RNI External IRB Studies Sites ...

» **My Inbox** IRB

Submissions Meetings Reports Institutional Profiles **Library** Help Center

## Library

Standard Operating Procedures General Worksheets Checklists **Templates**

Export

Name	Document
*Supplemental Form (HRP-503SUPP)	HRP-503SUPP Supplemental Form 11.2020.docx(0.18)
*UH Assent (HRP-506ASSENTUH)	HRP-506ASSENTUH - TEMPLATE - UH Assent(0.03)
*UH Basic Consent Template (HRP-506BIO)	HRP-506BIO - TEMPLATE - UH BIO Basic Consent Template(0.11)
*UH Biomedical Protocol (HRP-503BIO)	HRP-503BIO: Biomedical Protocol(0.08)
*UH Cancer Consent Template (HRP-506CANCER)	HRP-506CANCER - TEMPLATE - UH Cancer Informed Consent Document(0.03)
*UH Consent Sample Language Tutorial (HRP-506BIOTUT)	HRP-506BIOTUT - TEMPLATE - UH BIO Consent Sample Language Tutorial(0.07)

# Common Clarifications

- PI cannot be a student/resident
- Upload documents in correct sections
- Funding question must have an answer
- “Stack” Documents

## Basic Information

1. \* Title of study:

2. \* Short title:

3. \* Brief description:

4. \* Principal investigator:

### Help

The person responsible for the conduct of the research study.  
CWRU: Only faculty members can hold this role.  
UH: Only UH employees qualified to oversee the research can hold this role.

# Uploading Documents in SpartaIRB

Clear

## 10. Attach the protocol: ?

Document	Category	Date Modified	Document History
There are no items to display			



Do not delete previous version(s) of protocols or consent documents. Instead, when uploading new versions of a document, click 'Update' next to the current document with a new version. You can change the name, version number, etc. if necessary.

## 10. Attach the protocol: ?

Document	Category	Date Modified	Document History	
<input type="button" value="Update"/>	HRP-503ACQUIREDATA - TEMPLATE - Data Protocol 2019-06-12-1.docx(0.01)	IRB Protocol	10/8/2019	History

Do not delete previous version(s) of protocols or consent documents. Instead, when uploading new versions of a document, click 'Update' next to the current document with a new version. You can change the name, version number, etc. if necessary.

## Local Site Documents

### Consent forms: ?

Document	Category	Date Modified	Document History
There are no items to display			

Refer to the following templates and instructional documents:

- Informed Consent Process for Research (HRP-090)
- Written Documentation of Consent (HRP-091)
- CWRU Assent (HRP-506ASSENTC)
- \*UH Assent (HRP-506ASSENTUH)
- \*UH Basic Consent Template (HRP-506BIO)
- \*UH Cancer Consent Template (HRP-506CANCER)
- CWRU Informed Consent Document Template (HRP-506SBER)

### 2 Recruitment materials: ? (add all material to be seen or heard by subjects, including ads) ?

Document	Category	Date Modified	Document History
There are no items to display			

### 3 Other attachments: ?

Document	Category	Date Modified	Document History
There are no items to display			



# Additional Requirements

- The Continuing Research Education Credit Program (CREC) is CWRU's method of certifying that individuals are trained to conduct human research.
  - Complete Education *Requirements*  
<https://case.edu/research/training/continuing-research-education-credit-crec-program>
  - Submit Financial Conflict of Interest Disclosure  
<https://case.edu/research/compliance/conflict-interests-committee>



# What else can help with IRB Process?

If you receive request for clarifications

- Do not send back to the IRB until all changes are made
- If you aren't sure, contact the IRB administrator
- All study members are required to:
  - Complete CREC Certification
  - Conflict of Interests Disclosure form will be required for faculty and may be required for staff/students on study team

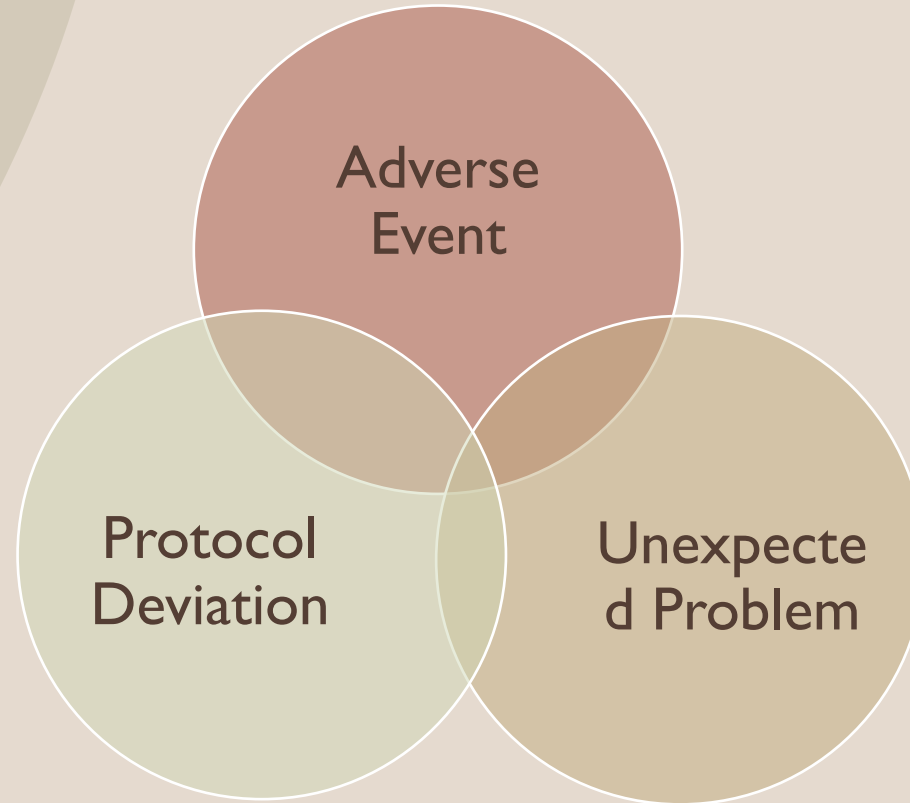
# Your IRB Protocol is Approved...

Now what?

# Active Protocol Requirements

- Modification Requests
  - Submit prior to implementing any change
  - Currently active and exempt studies
- Continuing Review
  - Full Board IRB risk protocols
  - Special expedited review protocols

# Adverse Event vs. Unexpected Problem vs. Protocol Deviation



# EXAMPLES: Deviation vs. Problem vs Adverse Event

- Protocol Deviations: Altering ANY aspect
  - Change in timing of tests, follow-up
  - Violating enrollment criteria
  - Altering elements of the procedure
- Unexpected Problems:
  - Losing computer file
  - Sudden unavailability of drug, equipment
- Adverse events: Subject harm

# Reportable New Information (RNI)

- Submitted via SpartaIRB System
- Method of How PI & Study Team Members Notify the CWRU IRB
- Section to Document Protocol Number

# University Policy on Custody of Research Data

## Faculty Handbook-

- Responsibilities & rights concerning
  - Access to
  - Use of
  - Maintenance of research data
- Responsible for maintenance & retention of research data

# Retention of Data

Research data shall be archived for:

- Not less than three years after the final grant close-out /or/
- After publication resulting from the project
  - Whichever occurs last
  - Original data retained whenever possible



# Additional Required Provisions

Participants Who Agreed to be Contacted for Future Research Studies

- ❖ Contact Information should be separate from the original Study Data

Once identifiable data (linked to individual participants)

- ❖ CWRU IRB Protocol can be closed

# Resources for Tips to Destroy Data

- CWRU UTech Department = Great Resource
- Cal Frye- [cxf244@case.edu](mailto:cxf244@case.edu)

# Student Research Studies

In the case of a student researcher, the PI may allow the student to take the original data (except for original informed consent documents if the study involves human subjects) when the student leaves the university as long as the student signs a written agreement (also signed by the PI and the Associate Vice President for Research or their designee) agreeing to accept custodial responsibilities for the data and that Case Western Reserve University will be given access to the data should that become necessary.

# Summary

- IRB functions are mandated
- IRB office is good resource
- CWRU websites good resource
- Students should work with their advisor
  
- Ask when unsure

# Guidance & Collaborations

- Steps to take when federal agencies regulations/guidelines are different
  - OHRP
  - NIH
  - FDA
- Secretary Advisory Committee for Human Research Protections (SACHRP)
- Continue to meet Data Sharing Policy



Any Comments,  
Questions or Concerns?

# Contact the CWRU IRB

Email address:

[cwru-irb@case.edu](mailto:cwru-irb@case.edu)

Kim Volarcik

[kav6@case.edu](mailto:kav6@case.edu)

216-369-0134