

# Research Professionals Network Workshop Series

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## Protocol Compliance

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# Objectives

- Define protocol compliance;
- Review compliance standards;
- Discuss why protocol compliance is important;
- Discuss methods of demonstrating compliance; and
- Discuss when and why the protocol may be changed.

# Defining the protocol and compliance

- A **research protocol** is a document that describes the background, rationale, objectives, design, methodology, statistical considerations, and organization of a clinical **research** project.

So how do we define protocol compliance?

- Compliance is...adherence to all the trial-related requirements, good clinical practice (GCP) requirements, and the applicable regulatory requirements.

# What standards must protocols adhere to?

- **Regulations and guidelines (e.g. OHRP, FDA, HIPAA)**
- Government sponsor (e.g. NIH Institute/center-specific policies)
- Industry sponsor policies
- Other Institution policies (e.g. when other institution is sponsor)
- State/local laws
- Institutional/departmental policies
  - **IRB policies (see BUMC/BMC HRPP Procedures & Policies)**
  - **IRB policies (see UVM RPO Procedures & Policies)**
- **ICH Good Clinical Practice (GCP)**

# What are our standards?

Two groups maintain regulations guidance aka our standards for research protocols and their compliance.





These regulations define:

- [human] subjects
  - Interactions/interventions
  - Sensitive information or materials
- 
- AND provide standards for how all of the above must be treated, enacted, or protected



# Subjects

## Human Subject (45 CFR 46.102 (e)(1))

- “... a living individual about whom an investigator conducting research obtains:
- **Information or biospecimens through intervention or interaction** with the individual and uses, studies, or analyzes those information or biospecimens;
- Or obtains, uses, studies, analyzes, or generates **identifiable private information or identifiable biospecimens.**”

## FDA Drug Study: Subject (IND regs)

–“...a human who participates in an investigation, either as a recipient of the investigational new drug or as a control.” *21 CFR 312.3 (b)*

## FDA Device Study: Subject (IDE regs)

–“...a human who participates in an investigation, either as an individual on whom or on whose specimen an investigational device is used or as a control.” *21 CFR 812.3 (p)*



OFFICE FOR HUMAN RESEARCH PROTECTIONS

- “[applies to]... all research involving human subjects conducted, supported or otherwise subject to regulation by any Federal department or agency that takes appropriate administrative action to make the policy applicable to such research....”
- i.e. when the research is conducted or supported (\$\$) by the HHS you must adhere to these guidelines
- [45 CFR 46](#) - PROTECTION OF HUMAN SUBJECTS



# HHS/OHRP 45 CFR 46

- Nuremberg Code, 1948
- Declaration of Helsinki, 1964 (WMA)
- Tuskegee Syphilis Study, 1932 –72
- Basic Regulations on Protection of Human Subjects, 1974 (DHEW)
- Belmont Report, 1979
- Protection of Human Subjects (Subpart A), 1981
- Common Rule, 1991
- New Final Rule, 2019



OFFICE FOR HUMAN RESEARCH PROTECTIONS

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*aka*

- when the research is conducted or support (\$\$) by the HHS
- [45 CFR 46](#) - PROTECTION OF HUMAN SUBJECTS



## Office for Human Research Protections

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## Office for Human Research Protections

The Office for Human Research Protections (OHRP) provides leadership in the protection of the rights, welfare, and wellbeing of human subjects involved in research conducted or supported by the U.S. Department of Health and Human Services (HHS). OHRP is part of the Office of the Assistant Secretary for Health in the Office of the Secretary of HHS.

OHRP provides clarification and guidance, develops educational programs and materials, maintains regulatory oversight, and provides advice on ethical and regulatory issues in biomedical and behavioral research. OHRP also supports the Secretary's Advisory Committee on Human Research Protections (SACHRP), which advises the HHS Secretary on issues related to protecting human subjects in research.

[^ top](#)



- “[covers] ...any experiment that involves a test article and one or more human subjects that... the results are intended to be submitted to FDA... as part of an application for a research or marketing permit...”
- i.e. when testing FDA regulated products (drug, device, or biologic) you must adhere to FDA guidelines
- [21 CFR 312, 812, 50, 54, 56](#) - Regulations: Good Clinical Practice and Clinical Trials

# FDA (21 CFR 312, 812, *etc.*)

- Biologics Control Act, 1902
- Food and Drugs Act, 1906
- Federal Food, Drug and Cosmetic Act of 1938
- Kefauver-Harris Amendment of 1962
- Medical Device Amendment, 1976
- Protection of Human Subjects in Research, 1981
- ICH GCP 1996
- ICH GCP (R2) 2016



- Clinical Investigation means any experiment that involves a test article and one or more human subjects that either is subject to requirements for prior submission to the FDA under section 505(i) or 520(g) of the act...or... the results are intended to be submitted to FDA... as part of an application for a research or marketing permit...”

*aka*

- when testing FDA regulated products (drug, device, or biologic)
- [21 CFR 312, 812, 50, 54, 56](#) - Regulations: Good Clinical Practice and Clinical Trials



U.S. Department of Health and Human Services



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### Clinical Trials and Human Subject Protection

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# Regulations: Good Clinical Practice and Clinical Trials



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- [FDA Regulations Relating to Good Clinical Practice and Clinical Trials](#)
- [Preambles to GCP Regulations](#)

## [FDA Regulations Relating to Good Clinical Practice and Clinical Trials](#)

✉ [Sign up for Good Clinical Practice/Human Subject Protection e-mail updates](#)

FDA regulations governing the conduct of clinical trials describe good clinical practices (GCPs) for studies with both human and non-human animal subjects

# ICH GCP

- Good Clinical Practice (GCP): international ethical and scientific quality standard
- Established in 1990
- Maintained by International Council for Harmonisation (ICH)
- Founding Members: European Union, Japan, USA





# Good Clinical Practice (GCP)

- The first version of the ICH E6 Good Clinical Practice (GCP) Guideline was finalized in 1996.
- Compliance with this standard provides public assurance that the rights, safety and well-being of trial subjects are protected, consistent with the principles that have their origin in the Declaration of Helsinki, and that the clinical trial data are credible.

# Good Clinical Practice (GCP)

- The guideline was amended in 2016 to...
  - encourage implementation of improved and more efficient approaches to clinical trial design, conduct, oversight, recording and
  - Updates standards re: electronic records and essential documents intended to increase clinical trial quality and efficiency

# ICH Guidelines



## Quality Guidelines

Harmonisation achievements in the Quality area include pivotal milestones such as the conduct of stability studies, defining relevant thresholds for impurities testing and a more flexible approach to pharmaceutical quality based on Good Manufacturing Practice (GMP) risk management.



## Safety Guidelines

ICH has produced a comprehensive set of safety Guidelines to uncover potential risks like carcinogenicity, genotoxicity and reprotoxicity. A recent breakthrough has been a non-clinical testing strategy for assessing the QT interval prolongation liability: the single most important cause of drug withdrawals in recent years.



## Efficacy Guidelines

The work carried out by ICH under the Efficacy heading is concerned with the design, conduct, safety and reporting of clinical trials. It also covers novel types of medicines derived from biotechnological processes and the use of pharmacogenetics/genomics techniques to produce better targeted medicines.



## Multidisciplinary Guidelines

Those are the cross-cutting topics which do not fit uniquely into one of the Quality, Safety and Efficacy categories. It includes the ICH medical terminology (MedDRA), the Common Technical Document (CTD) and the development of Electronic Standards for the Transfer of Regulatory Information (ESTRI).

# ICH GCP: E6

## **Ethics**

1. ... conducted in accordance with ethical principles that have their origin in the Declaration of Helsinki and are consistent with GCP and applicable regulatory requirements
2. Before trial, foreseeable risks and inconveniences should be weighed against the anticipated benefit for the individual subject and society. Anticipated benefits must justify risks.
3. Rights, safety, and well-being of subjects prevail over interests of science and society

# ICH GCP: E6

*(continued...)*

## **Protocol and Science**

4. Nonclinical and clinical information supports the proposed trial
5. Trials should be scientifically sound and described in a clear detailed protocol

# ICH GCP: E6

*(continued...)*

## **Responsibilities**

6. IRB approval prior to initiation
7. Medical care/decisions on behalf of subject made by qualified physician/dentist
8. Each individual is qualified (education, training, experience) to perform his/her tasks

# ICH GCP: E6

*(continued...)*

## **Informed Consent**

9. Freely given from every subject prior to participation

## **Data Quality and Integrity**

10. All trial data should be recorded, handled, and stored in a way that allows its accurate reporting, interpretation, and verification
11. Protects confidentiality of records

# ICH GCP: E6

*(continued...)*

## **Investigational Products**

- 12. Manufacture, handling, storage should conform to Good Manufacturing Practice (GMPs) and used per protocol

## **Quality Control/Quality Assurance**

- 12. Implementation of systems with procedures to ensure quality of every aspect of the trial



# So many protocol standards...

- **Regulations (OHRP, FDA, HIPAA)**
- **Guidance/guidelines (NIH, FDA, ICH GCP)**
- Government sponsor (i.e. NIH Institute/center-specific policies)
- Industry sponsor policies
- Other Institution policies (e.g. when other institution is sponsor)
- State/local laws
- Institutional/departmental policies
  - **IRB policies (see BUMC/BMC HRPP Procedures & Policies)**
  - **IRB policies (see UVM RPO Procedures & Policies)**
- **ICH Good Clinical Practice (GCP)**

Seems like a lot right?

There is an organization that is very close to home and here to assist...

# **Institutional Review Board**

# Institutional Review Board (IRB)

Boston University Medical Campus and Boston Medical Center:  
Institutional Review Board

About Us INSPIR II Submission Requirements Maintaining IRB Approval CR Times Newsletter IRB Information OHRA CRRO IRB

## Institutional Review Board

For Research Participants

For Community Members

The Boston Medical Center and Boston University Medical Campus **Institutional Review Board** (IRB) provides ethical review of human subjects research to protect the rights and welfare of human subjects of research and to assure that human research is conducted according to applicable federal, state, and local laws and regulations and the relevant policies of the Human Research Protection Program, Boston Medical Center, and Boston University.

Investigators must submit planned human subjects research for IRB review using [INSPIR II](#) and no [human subjects research](#) activities may be carried out until the IRB has provided approval or

[www.bumc.bu.edu/irb/](http://www.bumc.bu.edu/irb/)

The University of Vermont

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## RESEARCH PROTECTIONS OFFICE

### Human Subjects Research



University of Vermont (UVM) and UVM Medical Center are involved in important behavioral and biomedical research and are committed to assuring that all research activities are conducted in a manner that promotes the rights and welfare of the participants.

UVMCLICK - LOGIN

INVESTIGATOR RESOURCES

COMMITTEE LOGIN

[www.uvm.edu/rpo/human-subjects-research](http://www.uvm.edu/rpo/human-subjects-research)

# Institutional Review Board (IRB)

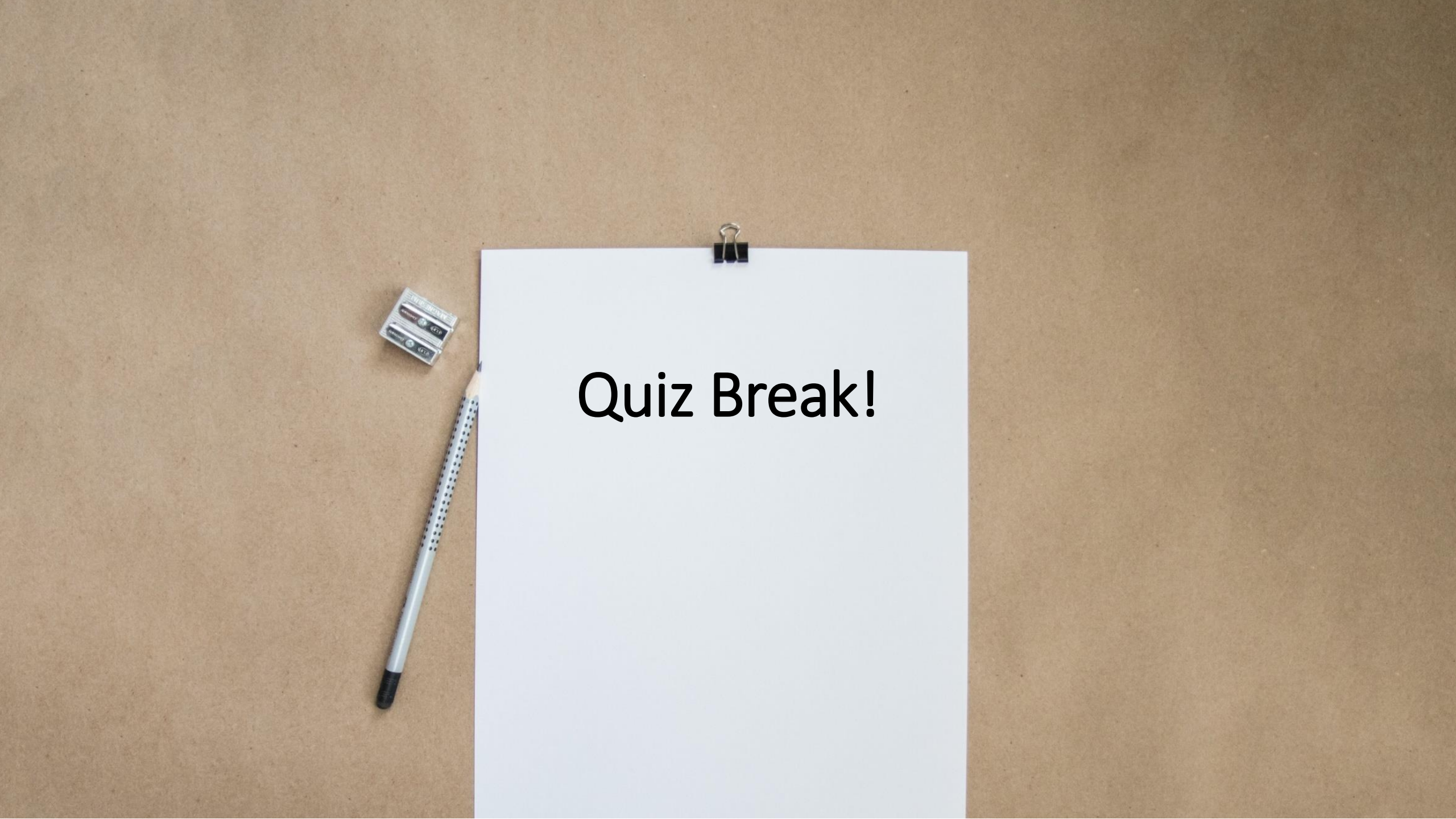
- Formally designated committee; at least 5 members
  - Function as an ethics committee;
  - Primary responsibility: protect rights and welfare of research subjects
- Review, approve, conduct periodic review (at least annually) of biomedical and behavioral research [protocols]
  - Document that reviews take place in compliance with regulations
- Empowered to approve, require modifications or disapprove research protocols
- **The IRB enforces the rules of other organizations**

# The 111 Criteria

- The IRB reviews your protocol to ensure that it meets the 111 criteria from the FDA and OHRP
- Criteria are common to the FDA & OHRP
- Why “111”?
  - FDA: 21 CFR 56.111
  - HHS/OHRP: 45 CFR 46.111

# The 111 Criteria

1. Risks to subjects are minimized.
2. Risks to subjects reasonable in relation to benefits.
3. Selection of subjects is equitable.
4. Informed consent process.
5. Informed consent documentation.
6. Adequate provision for monitoring the data.
7. Provisions to protect privacy/maintain confidentiality.
8. Safeguards for vulnerable populations.



Quiz Break!

## RPN Workshop: Protocol Compliance Quiz

Please complete the quiz prior to the start of today's presentation. We will learn the answers as we go!

- 1) In what year did the International Conference on Harmonisation (ICH) establish Good Clinical Practice standards for conducting trials?
  - a. 1914
  - b. 1948
  - c. 1979
  - ☒ d. 1996
  
- 2) Under which category do the ICH GCP guidelines fall?
  - a. Quality
  - b. Safety
  - ☒ c. Efficacy
  - d. Multidisciplinary
  
- 3) What is the primary role of the Institutional Review Board?
  - a. To regulate any research involving human subjects conducted or supported by and Federal department or agency
  - ☒ b. To enforce the rules of other organizations that are related to the design and conduct of research
  - c. To regulate any experiment that involves a test article and one of more human subjects
  - d. To keep PIs and their research staff on their toes
  
- 4) The 111 Criteria are... (select all true statements)
  - ☒ a. ...named for their common regulation number.
  - b. ...the 111 principles established by the Office for Human Research Protections for conducting trials with human subjects.
  - c. ...the number of GCP considered during the first meeting of the International Conference on Harmonisation.
  - ☒ d. ...criteria for IRB approval of research.
  
- 5) Which of the following should be minimized or eliminated in the design of research study?
  - a. Confidentiality
  - b. Compensation to participants
  - ☒ c. Risks to subjects
  - d. All of the above



Dr. Ruth proposes to conduct research in which she will interview men who have self-identified as having experienced cognitive decline in the last 5 years. The aim of the research is to determine whether the men carry a genomic biomarker that indicates an increased risk for Alzheimer's Disease. Dr. Ruth's recruitment plan involves research assistants putting up posters in the surrounding community. The posters instruct any interested men, ages 45-65 and who have experienced difficulties with memory, to call the lab phone number and leave a message with their name and phone numbers. A member of the research team will return their call with available times to complete the study screening by phone. The team member will leave at least five different times to facilitate subjects' ability to participate. If the man meets eligibility criteria and is still interested in participating, the research team member will schedule an appointment at the lab where they would complete the consent process and the interview.

Yes, the research protocol minimizes potential risk of harm to participants in the recruitment process.

No, the research protocol does not minimize potential risk of harm to participants in the recruitment process.

# Why is protocol compliance important?

- a) Participant safety

- b) Integrity of the science

# How does protocol compliance address participant safety?

## 111 Criteria #1

1: Risks to subjects are minimized:

- (i) Protocol should be using procedures that are consistent with sound research design and do not unnecessarily expose subjects to risk,
- (ii) *and whenever appropriate, protocols should be using procedures that already being performed on the subjects for diagnostic or treatment purposes*

# How does protocol compliance address integrity of science?

- Consistency of data collection (*protocol adherence, IRB oversight*)
- Ensuring staff are educated and trained for their roles (*ICH GCP E6, #8*)

# Let's revisit our definition...

- Compliance is...adherence to all the trial-related requirements, good clinical practice (GCP) requirements, and the applicable regulatory requirements.
- The investigator should not implement **any deviation from, or changes of, the protocol without agreement by the sponsor and prior review and documented approval/favorable opinion from the IRB/IEC of an amendment,...**
- ...except where necessary to eliminate an immediate hazard(s) to trial subjects, or when the change(s) involves only logistical or administrative aspects of the trial (e.g., change in monitor(s), change of telephone number(s)).

# *How do you change a protocol?*

- **Amendment:** Making a change to the overall protocol
- **Exception:** A request of a one-time change to the protocol prospectively without actually altering the overall protocol

*In the moment changes?*

# Let's revisit our definition...

- Compliance is...adherence to all the trial-related requirements, good clinical practice (GCP) requirements, and the applicable regulatory requirements.
- The investigator should not implement any deviation from, or changes of, the protocol without agreement by the sponsor and prior review and documented approval/favorable opinion from the IRB/IEC of an amendment,...
- ...except where necessary to eliminate an immediate hazard(s) to trial subjects, or when the change(s) involves only logistical or administrative aspects of the trial (e.g., change in monitor(s), change of telephone number(s)).



# Unplanned changes

- “....except where necessary to eliminate an immediate hazard(s) to trial subjects,”
- What situations meet this criteria?

# Demonstrating Compliance

- If comply with your protocol, but you do not document it, did it really happen?...
- Documentation is a requirement of numerous regulations!
  - 45 CFR 46 – OHRP Common Rule
  - 21 CFR 312.62(b) - FDA
  - ICH GCP E6, part 8

# Demonstrating Compliance: Best Practices

Document Participant Eligibility

Document Consent

Document Data

Document Contacts (calls, study visits, etc.)

Document protocol changes!

# Demonstrating Compliance: Best Practices

## Document Participant Eligibility

RESEARCH SUBJECT ELIGIBILITY ASSESSMENT FORM				
Study Name:				
IRB Protocol #:				
Protocol Version # and/or Date:				
Principal Investigator:				

SUBJECT # _____				
INCLUSION CRITERIA <i>Must be "yes"</i>	Yes	No	Location of supporting source documentation	Notes
1.	<input type="checkbox"/>	<input type="checkbox"/>		
2.	<input type="checkbox"/>	<input type="checkbox"/>		
3.	<input type="checkbox"/>	<input type="checkbox"/>		
EXCLUSION CRITERIA <i>Must be "no"</i>	Yes	No	Location of supporting source documentation	Notes
1.	<input type="checkbox"/>	<input type="checkbox"/>		
2.	<input type="checkbox"/>	<input type="checkbox"/>		
3.	<input type="checkbox"/>	<input type="checkbox"/>		


  

This subject is:

☐ Eligible for participation    ☐ Ineligible for participation

Signature:	Date:
Printed Name:	

<p>BOSTON MEDICAL CENTER AND THE BOSTON UNIVERSITY SCHOOLS OF MEDICINE, PUBLIC HEALTH AND DENTAL MEDICINE</p> <div style="text-align: center; margin-top: 20px;">  <p><b>RESEARCH CONSENT FORM</b></p> </div> <p><b><u>Basic Information</u></b></p> <p>Title of Project: Evaluation of Stress Indicators on the Kree Population</p> <p>IRB Number: H-12345</p> <p>Sponsor: National Institute on Aging (NIA)</p> <p>Principal Investigator: Carol Danvers, MD 100 Avenger Circle Hudson River Valley, NY 12429 captainm@bu.edu</p> <p>Study Phone Number: 212-576-4000</p>	<div style="display: flex; justify-content: space-between;"> <span>Study Name:</span> <span>Study PI:</span> </div> <div style="display: flex; justify-content: space-between;"> <span>Study IRB #:</span> <span></span> </div> <div style="text-align: center; margin-top: 20px;"> <p><b>Documentation of Informed Consent</b></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 60%;">Participant:</td> <td></td> </tr> <tr> <td>Version of consent used:</td> <td></td> </tr> <tr> <td>Consent obtained by:</td> <td></td> </tr> <tr> <td>Date of consent:</td> <td></td> </tr> </table> </div> <p>Check all that apply (provide necessary details in the notes space below):</p> <div style="margin-top: 10px;"> <input type="checkbox"/> The consent form was signed and dated by the researcher.         <input type="checkbox"/> The consent process was witnessed by an impartial witness (if applicable).         <input type="checkbox"/> The participant was given a copy of the signed informed consent form.         <input type="checkbox"/> The consent process was completed <i>prior to the start of research procedures</i>.       </div> <div style="margin-top: 20px;"> <p>Notes about the consent process (i.e. who was involved in consent process, what questions did the participant have, translator number, whether a teach-back process was used, etc.):</p> <hr/> <hr/> </div>	Participant:		Version of consent used:		Consent obtained by:		Date of consent:	
Participant:									
Version of consent used:									
Consent obtained by:									
Date of consent:									

# Demonstrating Compliance: Best Practices

## Document Contacts (calls, study visits, etc.)

The screenshot shows the 'ehealth Patient' software interface. At the top, there is a menu bar with 'File' and 'Help'. Below it, a tabbed interface is visible with tabs for 'Patient Demographic Data', 'Patient Visits', 'Patient Appointments', and 'Patient Prescriptions'. The 'Patient Demographic Data' tab is active. Below the tabs, there are navigation buttons (back, forward, search, etc.). The main area contains a form for patient data. The form is organized into two columns. The left column contains fields for Patient ID (1), Name (ZEHLIYA), Surname (GUNCER), Birthdate (17.04.1960), Height (1.65), Gender (F), Citizen (TC), Blood Type (A RH+), and Education (Master). The right column contains fields for Entered Date (05.09.1989), Record Owner (Dr. Mehmet), Birthplace (Mardin), Weight (57), Marital Status (Single), Social Security (E), and Blood Pressure (NORMAL). There are also fields for Company, Work Phone, Work Address, and Home Address, which are currently empty.

Patient ID	1	Entered Date	05.09.1989	Company
Name	ZEHLIYA	Find	pid	Work Phone
Surname	GUNCER	Record Owner	Dr. Mehmet	Work Address
Birthdate	17.04.1960	Birthplace	Mardin	
Height	1.65	Weight	57	
Gender	F	Marital Status	Single	Home Address
Citizen	TC	Social Security	E	
Blood Type	A RH+	Blood Pressure	NORMAL	Home Address
Education	Master			

Study name: [REDACTED]

Study ID #: [REDACTED]

Study PI: [REDACTED]

### Phone Call Summary Report

For documentation of phone calls related to the clinical conduct of the study. You may also use Communication log template to document phone calls.

Date: [REDACTED] / Time: [REDACTED]

Contact Person: [REDACTED]

Contact Person Phone #: [REDACTED]

Contact Person Institution: [REDACTED]

Summary:

[REDACTED]

# Demonstrating Compliance: Best Practices

# Document protocol changes

[illegible]

# Demonstrating Compliance: Best Practices

Can you think of any other processes in your research study that could be documented?



# Demonstrating Compliance: Best Practices

Possible Answer: Document training of staff!

[illegible]

# So what happens when we do not follow the protocol...

- Deviations
  - Definitions
  - Reporting (e.g. RENIs)
  - Resolving (e.g. CAPAs)
  - Tracking your follow-up (be prepared to demonstrate that you have followed your CAPAs)

# Deviations

- Any change implemented without receiving IRB approval first
- Major deviation: Deviations that could affect the subject safety or integrity of the data
- Minor deviation: Deviations that are not major
- Each type has a separate requirement of when they should be reported to your IRB. This is outlined in your IRB's policies (or the external IRB that your may study follow!)

# So what happens when we do not follow the protocol...

- Deviations
  - Definitions
  - **Reporting (e.g. RENIs)**
  - **Resolving (e.g. CAPAs)**
  - **Tracking your follow-up (be prepared to demonstrate that you have followed your CAPAs)**
- **The RPN had workshops in the past to discuss RENIs, CAPAs, etc. in more details so feel free to look these up online!**

Questions?

## Bonus Question:

You are conducting a NIH-funded study that will enroll subjects that have been prescribed an FDA-approved medication (Zocor) for the treatment of high cholesterol as part of their routine care. Study participation will involve EKG, EEG, exercise testing, blood sampling (~30ml), survey completion and the collection of information from the medical record every 6 months. The study has been actively enrolling subjects for the past 2 years and you've just received a notification that the study will undergo a routine QA review by HRPP. **Under which of the following regulations and/or guidelines will the study be reviewed:**

- |                   |          |
|-------------------|----------|
| a) FDA regs       | e) a & c |
| b) OHRP regs      | f) b & c |
| c) IRB protocol   | g) c & d |
| d) Zocor Co. regs |          |

# Thank you!

Keep a look out for future RPN workshops...

# Thank you!

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Special Projects & IRB Manager

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Extra slides...

# Demonstrating Compliance: Best Practices

Answer: Document training of staff!

[illegible]

**. Applicable Regulations, Guidances and Policies**

---

<b>Regulation/ Guidance/Policy</b>	<b>Title</b>
<b>21 CFR 50</b>	<a href="#"><u>Protection of Human Subjects</u></a>
<b>21 CFR 56</b>	<a href="#"><u>Institutional Review Boards</u></a>
<b>21 CFR 312</b>	<a href="#"><u>Investigational New Drug Application</u></a>
<b>21 CFR 812</b>	<a href="#"><u>Investigational Device Exemptions</u></a>
<b>45 CFR 46</b>	<a href="#"><u>Protection of Human Subjects</u></a>
<b>45 CFR 160</b>	<a href="#"><u>HIPAA Privacy Rule</u></a>
<b>45 CFR 164 Subparts A and E</b>	<a href="#"><u>HIPAA Privacy Rule</u></a>