





## November 13, 2008 7:30 a.m. – 5:00 p.m.

Sponsored by the Vice President for Research and Office of Clinical Research

## **Conducting Clinical Research**

## **Program Objectives**

The overall objective for this one-day training course is to provide Faculty Investigators, Research Nurses, Research Coordinators and Project Coordinators with a basic, "how-to-do it" approach to clinical trials, explaining how these procedures help to protect human subjects and provide valid data to answer the research question(s), while linking all of this FDA/DHHS and ICH Good Clinical Practice regulations and guidance. The individuals chosen to present each section of this training course are key personnel in the administration and/or the implementation of research at University of Texas Health Science Center at San Antonio (UT HSC), the South Texas Veterans Health Care System (STVHCS), or the University Hospital System (UHS).

While this course is designed to be accessible to new members of a research team, there is considerable new content in this course that will interest experienced research nurses and coordinators. Currently this course is scheduled to be repeated three times per year.

## AGENDA CONDUCTING CLINICAL RESEARCH

November 13, 2008

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Clinical Research
Project Coordinator OCR
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Clinical Research

# Introduction

# Brian Herman, PhD Vice President for Research

#### **Conducting Clinical Research**

#### SPONSORED BY

Office of Clinical Research (OCR) Office of the Vice President for Research UT Health Science Center San Antonio

#### Continuing Education Credit

To receive continuing education credit, the participant must submit completed and signed – a  $\underline{statement}\ of\ attendance\ and\ a\ \underline{program}\ evaluation\ at\ the\ end\ of\ the\ presentation$ 

- In presentation
  For nurses CNE credits are awarded for 85% or more participation in this activity. This continuing nursing education activity was approved by the Texas Nurses Association, an accredited approver by the American Nurses Credentialing Center's Commission on Accreditation. This activity, CNE ID <u># 0.AO.12676-0208</u>, meets **Type I** criteria for mandatory continuing education requirements toward relicensure as established by the Texas Board of Nursing.
- For physicians, the UT Health Science Center San Antonio School of Medicine\* designates this educational activity for AMA PRA Category 1 Credits<sup>TM</sup>. Physicians should only claim credit commensurate with the extent of their participation in the activity.

If you need proof of attendance for a certification you hold, make sure you sign in/out and request a Verification of Attendance from the OCR.

#### Faculty Financial Disclosure Information

- Jenice Longfield, MD, reported she is a site visitor for AAHRPP research accreditation.
- Scott Soefje, Pharm D, disclosed that he is a consultant for Watson and Sanofi-Aventis Pharmaceuticals, a speaker for Merck and Elsai Pharmaceuticals, and holds stock in Amgen.
- Jennifer Hillman, Pharm D, reported that she holds stock in Pfizer Pharmaceutical and Johnson & Johnson.
- Anne Leonard, MPH, RN, CCRC, FAHA, disclosed she is a Stroke Consultant for the American Heart Association
- The other speakers and members of the planning committee have reported no conflicts of interest.
- Speakers will not discuss off label use of products.

## Introduction by Brian Herman, PhD Vice President for Research Institutional Official (IO)



Navigating the HSC Website for Clinical Research Information

http://uthscsa.edu

<u>http://research.uthscsa.edu/index.shtml</u> VPR <u>http://research.uthscsa.edu/ocr/</u> OCR <u>http://research.uthscsa.edu/irb/index.shtml</u> IRB

# Regulatory Background & Key Definitions

# Kay Perry, JD Regulatory Analyst for Research Operations

## Regulatory Background & Key Definitions

Kay M. Perry, J.D. Regulatory Analyst for Research Operations Office of Clinical Research perryk3@uthscsa.edu (210) 567-0452

### Introduction

- Clinical trial:
  - a research study involving human volunteers to answer specific health questions
- Research:
  - a systematic investigation designed to develop or contribute to generalizable knowledge

## Phases of Pharmacologic Trials

• Phase I

- Initial studies to determine the metabolism and pharmacologic actions of drugs in humans, the side effects associated with increasing doses, and to gain early evidence of effectiveness
- Phase II
  - Controlled studies to evaluate the effectiveness of the drug and to determine the common short-term side effects and risks

## Phases of Pharmacologic Trials

- Phase III
  - Expanded controlled and uncontrolled trials to gather additional information to evaluate the overall benefit-risk relationship of the drug
- Phase IV
  - Post-marketing study to assess additional information including the drug's risks, benefits, and optimal use

## **Device Trials**

- Medical Device:
  - Class I
  - Minimal potential for harm; least regulated (general controls) • Class II
  - · Special controls in place to ensure safety/effectiveness
  - Class III
  - Support human life, are of substantial importance in preventing impairment of human health, or which present a potential, unreasonable risk of illness or injury
  - Insufficient information assure safety and effectiveness solely through general or special controls.

## **Treatment Clinical Trials**

• Evaluates a new treatment, or a new way of using a standard treatment

## Federal Regulatory Agencies

Two offices, both part of the Department of Health and Human Services (HHS):

The Food and Drug Administration (FDA) & The Office for Human Research Protection (OHRP)

#### FDA

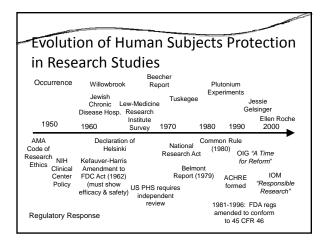
- Has oversight of the efficacy and safety of:
  - Food
  - Drugs
  - Medical devices
  - Biologics
  - Veterinary supplies
  - Cosmetics
- Radiation-emitting electronic productsTitle 21, Code of Federal Regulations (CFR)

#### OHRP

- Ensures research conducted or supported by the HHS follows the requirements of 45 CFR Part 46
- Purpose: to protect the rights of research subjects

Evolution of Human Subjects Protection						
in Research Studies						
Occurrent US dumping ground for drugs banned in Europe 1800's	ce Mexican- American War adulterated quinine 1848	Horse gets tetanus from diphtheria antitoxin; 13 children die. 1900	1910	Diethylene Glycol kills 100, mostly Ni children 1937	uremberg Trials 1940	
Regulator	Drug Importation Act	FDA n Created (1906)	Biologic Control Act	Food, Drug, and Cosmetic Act (1938) (must show drugs are safe = need for clinical trials)	Nuremberg Code Declaration of Geneva	
Regulator	y Response			alaisj		





## 1966–1978: US Legal Response to the 1964 Helsinki Declaration

- FDA Regulations: specific requirements of informed consent defined [21 CFR 130.37, later incorporated in 45 CFR 46]
- OHRP/DHHS Regulations: IRB procedures established, as well as special protections for vulnerable populations [45 CFR 46]

## International Conference on Harmonisation

 1996 – Good Clinical Practice Consolidated Guideline (E6)
 Good clinical practice as an international standard that provides public assurance that trial subjects are protected. The U.S., the European Union, and Japan are all signatories.

## Summary of Federal Regulation of Clinical Research – I

- [45 CFR 46] Human Subjects Protection
   (Subpart A is the Common Rule)
- [45 CFR 160 & 164] HIPAA
- [45 CFR 94] Conflict of Interest–Government Contracts

## Summary of Federal Regulation of Clinical Research - II

- [21 CFR 11] Electronic Records/Signatures
- [21 CFR 50] Human Subjects Protection
- [21 CFR 54] Financial Disclosure by Clinical Investigators
- [21 CFR 56] IRBs
- [21 CFR 312] IND Applications
- [21 CFR 314] New Drug Applications
- [21 CFR 600] Biological Products, General

## Summary of Federal Regulation of Clinical Research - III

- [21 CFR 803] Medical Device Reporting
- [21 CFR 812] Investigational Device Exemption
- [21 CFR 814] Pre-Market Approval for Medical Devices

## Useful Websites & Key Definitions

Federal Regulations
 <a href="http://research.uthscsa.edu/ocr/Summary.shtml">http://research.uthscsa.edu/ocr/Summary.shtml</a>

- NIH Clinical Research Support <u>http://www.clinicaltrials.gov</u>
- Glossary of Clinical Trial Terms: <u>http://clinicaltrials.gov/ct/info/glossary</u> <u>http://cancer.gov/dictionary</u> <u>http://www.aidsinfo.nih.gov/Glossary/GlossaryDefaultCenterPage.aspx</u>

## Questions?

## Responsible Conduct of Research

# Joseph Schmelz, PhD, RN Director of IRB

## Responsible Conduct of Research

Joseph Schmelz, PhD, RN, FAAN, CIP Director, IRB University of Texas Health Science Center, San Antonio

#### HISTORICAL CONTEXT Research Ethics

Nuremberg Code				
World Medical Association Declaration of Helsinki				
Tuskegee Syphilis Trials				
Congress Enacted National Commission for Protection of				
Human Subjects of Research				
Belmont Report Published				
15 Federal agencies adopted Common Rule				
Office for Protection from Research Risk (OPRR) NIH				
National Bioethics Advisory Committee				
OPRR Audits				
Office for Human Research Protection (OHRP) HHS				

## **Belmont Report**

- Identified three basic ethical principles
- "Belmont Principles"
  - Respect for Persons
  - Beneficence
  - Justice
- Each of the three has equal moral force

### **Respect for Persons**

- Treat individuals as autonomous agents
- Not a means to an end
- Choose for themselves; provide extra protection to those w/ limited autonomy
- Obtain informed consent
- Respect for privacy of research subjects

#### Beneficence

- Minimize harms and maximize benefits
- Use best possible research design
- Make sure researchers are competent
- Deny research without a favorable riskbenefit analysis

#### Justice

- Distributive Justice - Burdens/Benefits
- Treat People Fairly
  - Select Subjects Equitably/Access
- Avoid Exploitation of Vulnerable Pop's - Example: Tuskegee

#### **Responsible Conduct of Research**

**Federal Regulation** 

"The Common Rule" 45 CFR 46

FDA 21 CFR 50,56

HIPAA 45 CFR 160, 164

### THE COMMON RULE

**3 Basic Protections** 

- Institutional Assurances
- Institutional Review Board
- Informed Consent

### **Problems Identified - OPRR Audits**

Inadequate Consent - Psych pts Electrophysiology study - Pt refused x 2 Volunteer Harassment Consents lacking, obtuse, misleading

IRB members - conflict of interest IRB members - coerced Subject file - database mismatch Late Continuing Reviews Failure or Late Report of Adverse Events

### OPRR Research Suspensions 1998 - 2001

West LA VA/UCLA Duke Univ. of NY/Mt Sinai Univ. of IL@Chicago Univ. of South Florida Univ. of Colorado Univ. of Alabama VA Commonwealth Univ. of Penn Johns Hopkins

#### Adverse Patient Outcomes Volunteer Death

Volunteer - OTC Metabolic Disorder (mild)

#### Univ of PA - Gene Rx Research

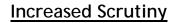
Failure to inform of risk Failure to report previous AEs PI Conflict of Interest

#### Adverse Patient Outcomes Volunteer Death

#### Volunteer - Healthy employee

Johns Hopkins - Hexamethonium

Inadequate Literature Review Inadequate Risk in Consent Failure to Report AE of Previous Subject Failure to obtain IND from FDA



- Establishment of OHRP Office for Human Research Protection
- Deans of Science —— Resign or Worse
- New Requirements
  - IRB Program
  - IRB Chair
  - IRB Administrator
  - Principle Investigators and Research Staff

#### NEW INITIATIVES STRENGTHEN HUMAN RESEARCH SUBJECT PROTECTION

- Mandatory Education Requirement PI, IRB, Research Staff
- Enhance Informed Consent Process
- Audits, Monitoring, Oversight
- Clarify Conflict of Interest Regulations
- Research Accreditation Initiatives

## SPECIAL TOPICS

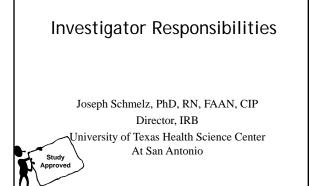
Exempt, Expedited, Full IRB Review Serum/Tissue Bank Research

#### **Responsible Conduct of Research**

- Institutional Commitment
  - Mandatory PI Training
  - Regular IRB Member Training
  - PI Instruction/Protocol Manual
- Mentors Teach Importance of
  - Regulatory File
  - Case Report Forms
  - Procedures/SOPs
  - Research staff/training
  - Ethical Modeling

## **Investigator Responsibility**

# Joseph Schmelz, PhD, RN Director of IRB



## Principal Investigator's Relationship with Staff

A responsible PI will:

- Obtain team management skills
- Encourage questions from colleagues and staff
- Listen to the concerns of the research staff, as they may be the first to point out problems with the protocol and with compliance
- Build consensus with the research team
- Eliminate intimidation by those in supervisory positions
- Authority relationships are not limited to the PI and the staff, but can also include the authority of the sponsor over the PI, the authority of the PI over the subject, and the authority of the protocol over the PI.

**CITI** Course

#### Investigator-Subject Relationship

- The investigator must place the subject's rights, welfare, and safety above all other personal and scientific concerns.
- The relationship between researcher and subject is similar to a physician-patient relationship, but different in the following ways:
  - Informed consent is required for participation in research.
     Withdrawal from a study is at the discretion of the subject.
  - Investigators should be sensitive to power relationships.
  - The investigator has a moral fiduciary relationship with the subject.

**CITI** Course

### PI Responsibilities

- Initial Approval
- Continuing Review & Re-approval
- Amendment & Modifications
- Adverse Event/Unanticipated Problem
- Reports of Noncompliance
- Inactivation

### **Continuing Review**

- Study approval no longer than 1 yearIRB must review the protocol, any
- amendments, and
- a status report including:
   a) number of subjects accrued;
   b) description of adverse events, unanticipat
  - b) description of adverse events, unanticipated problems, withdrawal of subjects, complaints,
     c) summary of relevant information;
  - d) copy of current consent document(s)

#### Amendments & Modifications

- Changes in previously approved studies cannot be made without prior IRB review;
  - except when necessary to eliminate immediate hazards to a subject
- For example changes in:
  - number subjects consented
  - design, methods or procedures
  - study staff, study sites/locations
  - consent procedures, consent document
  - recruitment advertisements, payments

#### Incidents, Experiences or Outcomes

Information of actual harm can be:

- an adverse event (encompassing both physical and psychological harms); or
- a problem or event not considered an adverse event\*\* (encompassing social or economic harms)
- Information indicating an increased risk of harm is:
   a problem or event not considered an adverse event\*\* that place subjects or others at increased risk of harm than was previously known or recognized, but no harm occurred.
- $[^{\star\star}$  referred to as "non-AE incidents, experiences or outcomes"]

#### Unanticipated Problems / Adverse Events

- any <u>incident</u>, <u>experience or outcome</u> that meets all of the following criteria:
- (1) unexpected (in terms of nature, severity, or frequency);
- (2) related or possibly related to participation in the research; and
- (3) suggests that the research places subjects or others at a greater risk of harm (including physical, psychological, economic, or social harm) than was previously known or recognized.

### Putting it all together

- Consent requires "reasonably expected risks"
- Local safety monitoring requires a plan for assessing incidences, experiences and outcomes to determine whether unanticipated problems have occurred
- Promptly report UPIRSOs and take action to eliminate an immediate risk

### **Reporting Noncompliance**

- Conducting research in a manner that disregards or ٠ violates federal regulations, failure to follow the IRB requirements & determinations, or institutional policies and procedures (in the case of VA research includes the requirements of the VA Handbook 1200.5)
- Handled by governing IRB
- · Elevated to next higher management echelon
- · Findings of serious or continuing noncompliance reported to:
  - HHS supported OHRP
  - IND/IDE FDA

#### Inactivation of IRB Approval

- When is it appropriate to inactivate IRB approval?
  - Enrollment of new subjects is permanently closed Data, private information, and/or clinical specimens are no longer being collected for research purposes (including long term follow up)
  - Subjects are no longer being treated under the research protocol (includes no plan for future research treatment) Research assessments or procedures are no longer being performed (includes no plan for future research
  - procedures) Federal research funding for this study is closed
  - If a multi-center study where UTHSCSA is the study operations center or the UTHSCSA investigator is the Lead Investigator, if the study closed at all participating sites Data/specimen analysis has been completed locally, or if analysis continues locally and the data has been permanently de-identified

#### Investigator Responsibilities **UTHSCSA Module - CITI**

- protecting the rights and welfare of research participants and others associated with the study. ensuring that no portion of the research work that involves a human subject is started without prior written approval from the Institutional Review Board (IRB).
- maintaining written records of IRB reviews and decisions.
- maintaining written records of IRB reviews and decisions. obtaining the informed consent / authorization of subjects before the subject is involved in the research. using the currently approved (stamped by the IRB with an approval and expiration date) consent form (in studies where consent forms are required). maintaining all signed consent documents obtaining the appropriate HIPAA waiver prior to a record review or database search to identify potential subjects. recording consent for research in the patient's record (as appropriate) as defined by the institution's policy.

#### Investigator Responsibilities UTHSCSA Module - CITI (continued)

- reporting proposed changes in previously approved human subject research activities to the IRB, through the OIRB. The proposed changes will not be initiated without prior approval, except where necessary to eliminate apparent immediate hazards to the subjects. monitoring deadlines and submit a fully completed Progress Report to IRB prior to expiration of the study approval. .
- ensuring the confidentiality and security of all information obtained from and about human subjects.

- subnit a final report when the study is complete.
  prompt reporting to the IRB (and other applicable agencies) any unanticipated problems involving risks to subjects and others.
  following applicable Food and Drug Administration (FDA) regulations for all research involving drugs, biologics and medical devices.

## Common Pitfalls

- Informed Consent Document current version
- Consent Documentation
- · Notes to file
- Privacy vs. confidentiality
- · Current version of protocol
- Provision of tools, instruments, or data forms
- Provision of advertisements
- · Signature sheets, documentation of training, compliance documents
- Omissions and corrections in documentation

#### Summary

- Follow the approved protocol
- <u>Supervise</u> the study staff to make sure they are following the protocol
- Follow the regulations and policies related to research and privacy
- <u>Supervise</u> staff compliance with policy
- Protect participants
- · Verify IRB approval

### Summary (continued)

- <u>Keep</u> participants informed and ensure they are willing to continue participation
   <u>Regularly</u> collect and assess information about safety or unexpected problems
   <u>Assure</u> study staff is qualified to perform delegated tasks (education, training, experience)
   <u>Provide</u> on-going communication with staff
   confirm the data is accurate
   Maintain organized records

- Maintain organized records

# Clinical Trial Project Management & Processes

# Holly Nolan, MS Karen Aufdemorte, BA, HT Kay Perry, JD





- Management Concepts
- Operational Considerations

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• Budgeting & Billing

## Management Concepts

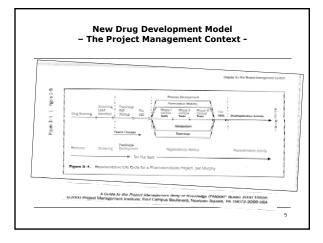
Holly R. Nolan, MS, MT (ASCP) Director, OCR <u>nolanh@uthscsa.edu</u> 210-567-0481

#### Main Points

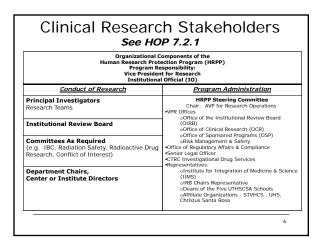
- Project Management Environment
   Lingth Science Conter Accests of th
- Health Science Center Aspects of the Project Life Cycle
   Construct Department

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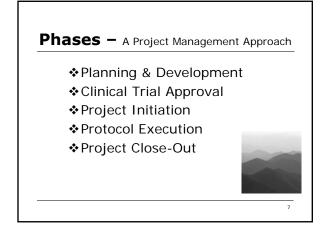
□ Good Management Practices

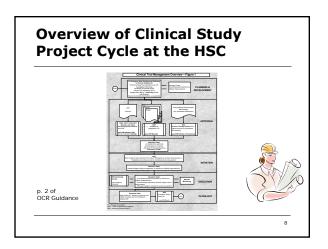




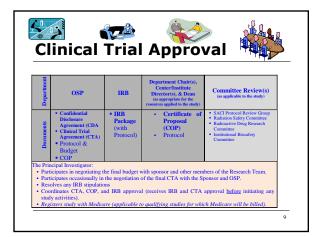




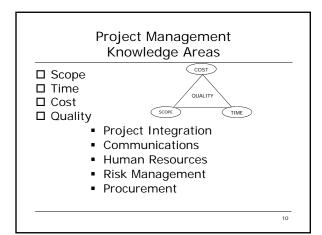




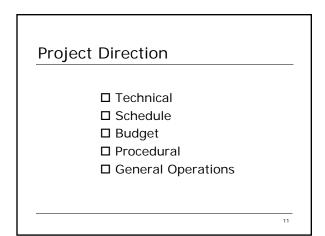


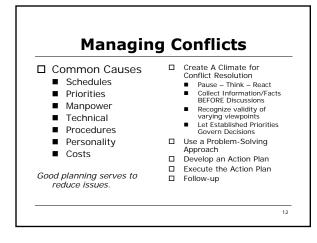












#### Words to Manage by

"Stay in control of your study." Follow the protocol and regulatory requirements

"Stay ahead of your processes." Track and report progress On time-On spec-On budget

Engage all members of the research team in planning the study and monitoring the progress.

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#### References

- Draft FDA Guidance (distributed for comment purposes only, May 2007): Guidance for Industry Protecting Right, Safety, and Welfare of Study Subjects Supervisory Responsibilities of Investigators
   Project Management A Systems Approach to planning, Scheduling, and Controlling, 8<sup>th</sup> Edition John Wiley & Sons, Inc., Harold Kerzner, PhD
   HSC HOP 7.2.1 HRPP Responsibilities <u>http://www.thscsa.edu/nog20007.2.1pt</u>
- OCR Guidance for Management of UTHSCSA Clinical Trials: A Practical Guide Focusing on the Department Roles and Resource Management http://research.uthscsa.edu/ocr/OCP%20Guidance%20for%200ft%200ft%200ft%200ftk20fincal%20frials.pdf

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## **Operational Considerations**

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#### **Basic Considerations**

 $\Box$  Protocol

□ Budget and Resources

□ Approvals

Initiation

#### **Common Reactions**

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•Denial (this isn't *happening* to me!)

•Anger (why is this happening to *me*?)

•**B**argaining (I promise I'll be a better person if...)

•Depression (I don't care anymore)

•Acceptance (*I'm ready* for whatever comes)



#### Contract versus Grant

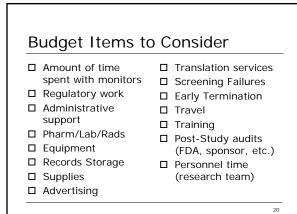
#### Contract

- □ Agreement
- Deliverables
- □ Reporting
- Requirements
- Payment Schedules

#### Grant

- Type and Length
- □ Reporting
- Requirements
- Restrictions on FundsCarry Over Funds

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#### Investigator Involvement

- □ Staff Meetings
- Meeting with Sponsors
- □ Internal Assessment and QC
- $\square$  Processes for Corrective Action
- □ Resource and Document Review

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#### Commonly Delegated Tasks

Recruitment

- Screening & EnrollingSponsor/Monitor
- Communication

Participation

Administration of Investigational

 Developing/Negotiating Budget
 Track CTA Approval

Management of Subject

□ Training □ Clinical Trial Billing □ Regulatory/Study F

Team

- Regulatory/Study FilesAE/UPIRSO Reports
- □ Study Closure/Reporting

□ IRB Communications

Supervising Research

Article/Intervention

Delegation ≠ Abdication

P.I. is not short for Practically Invisible

#### Final Responsibility for Study Conduct is the *Investigator*

http://www.fda.gov/OHRMS/DOCKET S/98fr/07d-0173-gdl0001.pdf

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#### Study Execution

- Review/Develop Manual of Operations (MOO) or SOPs
- □ Hire/Allocate Staff
- □ Affiliate Interface
- □ Recruit Participants
- Maintain Study Compliance and IRB Approval
- Budget Oversight

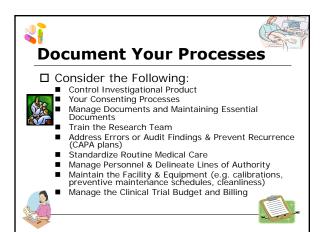
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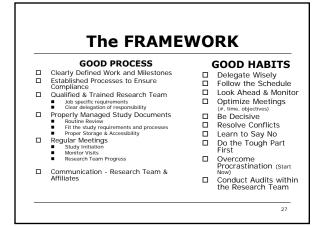
#### *Create an environment that is process-oriented* Standard Operating Procedures

- Operational Instruction
- Quality Foundation
  - Compliance
  - Consistency
    - On Schedule
  - Proper Interfaces
     Audit resource
  - Audit resource
     Quality
     Improvement
    - □ Trouble Shooting

 Involve Staff in Content

- Monitoring & Review
- Make Readily
- Available Train - Roles &
- Responsibilities Revise SOPs
- Promptly





## Study Close Out

- □ Final Review of all Study Objectives
- □ Review Budget All Billing and Payments Complete
- □ Prepare Final Sponsor and IRB Reports
- □ Notify OSP
- □ "Lessons Learned"

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#### References

- OCR Guide for Management of Clinical Trials
- http://research.uthscsa.edu/ccr/ The CRA's Guide to Monitoring Clinical Research, Karen E. Woodin, Ph.D. & John C. Schneider The CRC's Guide to Coordinating Clinical Research, Karen E. Woodin, Ph.D.
- □ The Thompson Guide to Good Clinical Practice

### **Insurance Aspects of Budgeting & Billing**

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#### **Preparation Phase**

- □ Make a grid: list all items/services and time intervals
- Determine what services are standard of care (SOC)
  - Would be done even if not on the study, at the same time interval

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**Budget Development Phase** 

What is billable to insurance?

What is not?

#### Medicare – IDE Device Trials Must Get Contractor Approval First

#### Category A Device (innovative devices)

Cannot bill for the device

condition"

 Routine services
 related to device may be billable
 If an "immediately life threatening disease or

#### Category B Device (safety & efficacy established)

- Device & routine services may be billable
- □ Factors: ■medical necessity
  - frequency
     acceptable medical standards
  - ■appropriate setting

#### Medicare – All Other Trials (other than IDE Device Trials)

For all trials:

- SOC services/items
- Research-related injuries

#### Billing Medicare, continued

- For "qualifying trials" Medicare also pays for:
   Administration of investigational drug
  - Detection and prevention of complications
- □ Referred to as "routine costs" (including SOC services)
- □ Which trials qualify?
- Trial <u>funded</u> by certain federal agencies ("deemed")
   Investigational item/service within a <u>Medicare benefit</u> <u>category</u>
- Study enrolls patients with diagnosed <u>disease</u>
- Study has therapeutic intent
  - Phase I trials do not qualify

### Medicare does not pay for...

- The investigational item or service itself <u>unless</u> otherwise covered outside of the clinical trial, or covered under a National Coverage Determination (NCD) using Coverage with Evidence Development
- Items and services provided solely to satisfy data collection and analysis needs
  - e.g., monthly CT scans for a condition usually requiring only a single scan
- Items and services customarily provided by the sponsor free of charge for any enrollee

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### Other Insurance Plans

Commercial Insurance varies

- many follow Medicare rules
- managed care contract may address issue

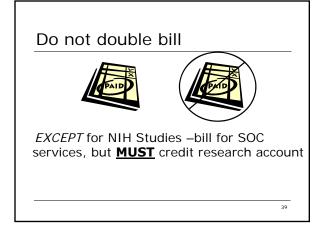
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#### □ Medicaid

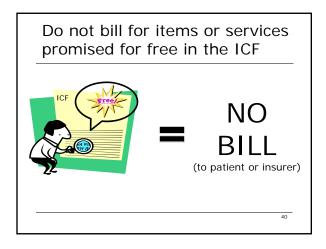
pays for SOC services

sponsor is paying	for:
	Per Subject Fee (By Visit)
□ Clinical services?	Screen Failure Visit 1— \$500.00 Screen Failure Visit 2— \$316.25 Screen Failure Visit 3— \$372.50 Screen Failure Visit 4— \$300.00
Research personnel time?	Vinit 1         -         \$1603.35           Vinit 2         -         \$398.41           Vinit 3         -         \$469.35           Vinit 4         \$1014.78         Vinit 5           Vinit 5         -         \$579.60           Vinit 6         \$579.60         Vinit 7           Vinit 7         -         \$602.35           Vinit 8         \$959.18         Vinit 9           Vinit 10         -         \$020.45           Vinit 11         -         \$173.48           Vinit 12         -         \$173.53           Total subject site badget 95.21.70         \$217.35

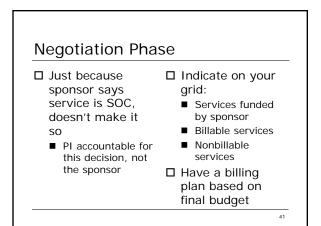












## During Study and Post-Study Analysis

Did you receive all invoices from affiliates?

If not, they billed the wrong party, which must be corrected

#### What Research Personnel need to do:

□ Establish roles and responsibilities

- □ Ensure there is no double billing
- □ If billing third party payers, ensure items are billable
- Look for opportunities to increase revenue
  - If sponsor will not pay for a billable item/service, ensure it gets billed
  - Detailed budget that includes all costs/items/services and strong negotiation skills

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#### References

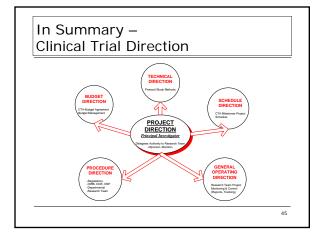
□ HOP 7.8.1. (under revision)

Drugs:

- NCD for Routine Costs in Clinical Trials (310.1)
- Medicare Claims Processing Manual Chapter 32, Section 69

Devices:

 Medicare Benefit Policy Manual Chapter 14, Section 20





# Industry Monitoring Audits & Compliance Reviews

# Anna G. Taranova Manager of Clinical Study Monitors

OTHEALTH SCIENCE CENTER RAM ANTONIA

## Human Subject Research Compliance Reviews

Anna G. Taranova Manager of Clinical Study Monitors

## Agenda

- > Types of Oversight Activities
- > Compliance Review Process
- Common Findings from Compliance Reviews
- Practical Solutions

## Regulations

- > Good Clinical Practice (GCP) Guidelines
- FDA Regulations (Title 21 Parts 11, 50, 54, 56, 312, 812)
- > The Common Rule (Title 45 Part 46)
- > IRB Policies
- > Sponsor Policies (Industry, HHS)
- > AAHRPP
- > HIPAA



## **Types of Oversight Activities**

- > FDA
- Sponsor
- > Internal

### **FDA Audits**

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- Determine compliance with federal regulations & guidelines
- > Verify validity & integrity of clinical data
- Assure participant rights, safety, & welfare protected
- Related to certain classes of investigational products (special interest in its current work plan)

## **FDA Audits**

Types of Inspections

- > Study focused
- > Investigator focused
- > Routine
- > Directed/For Cause

## **FDA Audits**

- > Notification to PI
- Upon arrival FDA investigator issues Form FDA 482, "Notice of Inspection"
- > Conducts audit
- Form FDA 483, "Notice of Inspectional Observations"
- "Establishment Inspection Report" (EIR)

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## **FDA Audits**

> Cooperate with FDA auditor

- Always notify IRB and Office of Regulatory Affairs & Compliance
- Assign a staff member to assist and document
- Do not answer a question if you are not sure of the answer

## **FDA Audits**

#### Types of Reports

- > No Action Indicated (NAI)
- Voluntary Action Indicated (VAI)
- > Official Action Indicated (OAI)

## **External Sponsor Monitors**

- > Ensure compliance with protocol & GCPs
- > Ensure data is high quality
- > Validate integrity of data
- > Ensure adequate facilities
- > Ensure adequate staffing

## **External Sponsor Monitors**

Types of Reviews

- > Qualification
- > Initiation
- > Interim monitoring
- Close-out

## **Internal Compliance Reviews**

- Office of Regulatory Affairs & Compliance
- > Independent and objective function
- > Reports to President's Office
- Reports sent to IRB for monitoring compliance

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### Objectives of Compliance Review

- Examine IRB approved studies for compliance
- Evaluate a study's progress, regulatory documentation maintenance, and overall conduct of study.
- Educate an opportunity for investigators and research staff to ask questions

Why Me?
Random reviews
At the request of IRB or OCR
For cause

### **Review Process**

- > Notification letter to PI with review tool
- > IRB files reviewed
- > Entrance meeting
- > Study review
- > PI summary
- > Exit meeting with PI to discuss findings
- > Final report to IRB
- > PI response to findings (sent to IRB)

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## **Review Focus**

- Regulatory documents
- > IRB submissions
- > Informed consent
- > Inclusion/exclusion criteria
- > Research and participant files
- > UPIRSO reporting
- Source documentation
- Investigational product (IP)
- Information security/confidentiality

### **Participant Selection for Review**

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- > Less than 250
  - 10% or 10 (whichever is greater)
- > Greater Than 250
  - At least 25 reviewed



## **Informed Consent**



- > Need for translated consents
- Document consent process
- Latest version of consent not signed
- > Executed consent does not have IRB stamp
- > Incomplete and/or missing signatures
- > Not obtained prior to research procedures
- Obtained by person not approved by IRB

## Inclusion/Exclusion Criteria

- > Enrolled, but criteria not met
- Criteria not adequately documented to verify eligibility
- Deviation not reported to IRB

## Documentation

- > Improper data correction
- > No signature or date on forms
- > Incomplete CRFs/not completed on time
- CRFs not supported or match source documents
- > Electronic files are not on a secure server

## **Regulatory Documents**

- > SAEs not reported to IRB
- > Continuing progress report errors
- > Regulatory binder not well maintained
- > Lapsed approval untimely submissions
- Sponsor monitor issues not addressed in timely manner or not addressed at all
- > Investigators & study staff not IRB approved

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## Investigational Product Accountability



- > No master dispensing log
- > No temperature log
- No documentation of instructions for IP use (taking & returning)
- > Dispensed by a person not approved by IRB

## PI Oversight of Study



- > Adequate oversight in identifying deviations
- > Study not conducted as approved
- > Staff experience
- > Non-responsive to sponsor reports





## Consequences of Failing to Protect Human Participants

- > Safety risk to participants
- Fines & penalties
- > Publicity
- > Jeopardizes reliability of data
- > Decreased study recruitment
- Legal fees & settlement costs
- > Loss of public trust in clinical research
- May shut down research for whole institution

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## **Practical Solutions**



- Check approval and expiration dates on each document before presenting to subject
- Make sure the IRB stamp is the most current
- Write a "Note to File" to document errors, deviations or omissions

## **Practical Solutions**



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- Maintain current documentation on file (protocol versions, CVs, progress reports)
- Drug dispensing/accountability log
- Staff responsibility log, signature log, required training records



- > Stay involved, take control of your study
- Be inspection ready
- Conduct a self-audit
- Any questions consult with Office of Clinical Research, Office of Regulatory Affairs & Compliance or IRB

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## New for 2009

- Standardization of studies upcoming AAHRPP accreditation
- > Revised tool for conducting reviews

## Office of Regulatory Affairs & Compliance Resources

Anna Taranova, taranova@uthscsa.edu Kathy James jameskd@uthscsa.edu Gayle Knight, knight@uthscsa.edu Office Number: (210) 567-2014

Anonymous Compliance Line 1-800-500-0333

## **Scope of Practice**

# Peter Melby, MD STVHCS Assoc. Chief of Staff for Research

## Scope of Practice for Research Personnel

Peter C. Melby, M.D. Associate Chief of Staff for Research South Texas Veterans Health Care System

#### Research Scope of Practice

#### What is it?

- A component of the Human Research Protection Program that is designed to ensure that research personnel are qualified to conduct the research
- Complementary to degree verification, credentialing, training, and competency assessment
- A tool to define and approve the duties and responsibilities of research personnel that are involved in human subjects research

#### Research Scope of Practice

#### A Valuable Tool

- Defines the duties and responsibilities of research
   personnel that are involved in human subjects research
- Ensures that the qualifications of the individual match the requested duties and responsibilities
- Clarifies the functions of individuals within the research team
- Documents the responsibility of the Principal Investigator
  in the oversight of research personnel
- Provides a means for institutional oversight of research
   personnel
- · Helps to protect subjects enrolled in research protocols
- · Helps to protect the integrity of research data

- Who is required to have a Research Scope of Practice
   Research staff who interact directly with human subjects
  - Research staff who interact with Individually Identifiable human subject information
- Who is NOT required to have a Research Scope of Practice
  - Strictly administrative staff who have no contact with human subjects or their Individually Identifiable Information
  - Research personnel (e.g. statisticians) who only work with deidentified data
  - Clinical personnel who perform tests on research subjects as part of their routine clinical job

### Research Scope of Practice Criteria that govern the roles and responsibilities included in the Scope of Practice – Education

- Experience
- Licensure
- Competency
- Applicable State and Federal Laws
  - Unlike clinical credentialing, very little guidance availableNot clear who can do what
- Institutional policy
  - Err on the side of human subject safety
  - Employ common sense
  - Consider public perception

#### Research Scope of Practice

#### Case Study

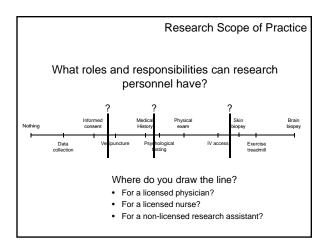
A research fellow, who has an M.D. degree from another country but is not licensed in the U.S., requests that his Research Scope of Practice include performing a 2 mm skin punch biopsy as part of a research protocol. He indicates that he has performed this procedure many times, and the Principal Investigator of the study attests that he is qualified to do it.

Is it acceptable to include this procedure as part of his Scope of Practice?

#### Case Study

A Principal Investigator, who studies stress and cognitive function, requests that the Research Scope of Practice for her research assistant include the obtaining of informed consent and the administration of neuropsychological testing. The PI has provided on-the-job training to the research assistant, who has a B.S. in Medical Technology.

Is this an acceptable part of her Scope of Practice?



#### **Research Scope of Practice**

#### Where do you draw the line?

#### Licensed personnel:

- · Dictated by the regulations related to their license
- Responsibilities unique to research (not part of standard clinical training) require documented competency.
- If a research protocol requires a licensed physician to perform a procedure that is beyond his/her approved practice, then approval to perform the additional procedure must be obtained through the credentialing board

Unlicensed personnel (regardless of educational degree):

- Cannot perform any function that would constitute the practice of medicine
  Any procedure, that in the context of routine medical practice would require
- the consent of the patient, can only be performed by an appropriately licensed provider

South Texas Veterans Health Care System University of Texas Health Science Center at San Antonio Scope of Practice for Research Personnel	
NAME	JOB TITLE
DEGREE	LICENSURE
MD DO DDS NP/CNS PA RN	MD DO DDS NP/CNS PA R
BS MS PhD None Other:	LVN MT None Other:
PRINCIPAL INVESTIGATOR (PI)	CREDENTIALING & PRIVILEGING STATUS
	From: To:
<sup>16</sup> Scope of Practice is specific to the duties and responsible ted Principal Investigator(s) for a term not to exceed two yes search involving human subjects with the responsibilities as tocols. This document does not waive the responsibility to y leaneed independent provider under VHA Directive 1100 to Eccepe of Practice is governed by the policies and proced	ars. The employee is specifically authorized to conduc proved below in conjunction with approved research secure STVHCS clinical Credentialing & Privileging fo 19 or other appropriate institutional privileging directive



<section-header>

#### NOTICE TO LICENSED PROFESSIONALS:

Individuals found to be working outside their privileges as granted by the STVHCS, UTHSCSA, or other UTHSCSA-affiliated institutions will be subject to disciplinary action and possible reporting to the National Practitioner Data Bank.

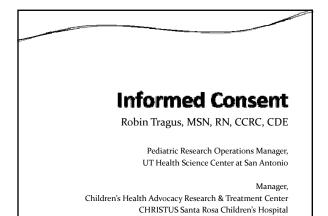
#### RESEARCH EMPLOYEE'S STATEMENT:

This Scope of Practice outlines general tasks I am permitted to undertake in conjunction with an approved protocol. I understand that all research must be approved by the UTHSCSA IRB, and that research performed at the STVHCS also requires approval by the STVHCS R&D Committee. If I have questions or concerns, I am encouraged to contact the STVHCS Research Office or the UTHSCSA Office of Clinical Research. I also understand that performing tasks beyond this scope of practice, without specific authorization, may lead to disciplinary action. Both the principal investigator and I are familiar with all duties and procedures granted in this Scope of Practice. I agree to abide by the parameters of this Scope of Practice and all-applicable hospital policies and regulations.

**Discussion and Questions** 

# The Informed Consent Process

# Robin Tragus, RN, MSN Anne Leonard, MPH, RN Karen Aufdemorte, BA, HT Erika Hess, BA, MS Lillian Sanchez, MSN, RN Eleanor Montalbo



## Objectives

- Explore the Informed Consent Process
- Examine some potential pitfalls in obtaining consent

#### Historical Context for Current Regulatory Environment Surrounding Informed Consent

- Reaction to abuses which occurred as a result of research on human subjects
  - Nazi Germany
  - Tuskegee
  - Willowbrook
- Highly publicized recent cases
  - Jesse Gelsinger
  - Ellen Roche

## **Informed Consent Scenarios**

Scenario 1: How not to obtain Consent and Assent

## So What Went Wrong?

- Was it informed?
- Was it consent?
- Was there assent?

## Issues with the process as presented

- Procedural:
  - Study procedures performed before obtaining consent
  - Did not provide adequate time to think about being in a study
  - Consent document not read
  - Witness signing without witnessing
  - No copy of document given to parents

## Issues, continued

- Lack of understanding on the part of parents and participant what was involved in study participation
- Lack of understanding on the part of the parents about risks
- Investigator not around to answer questions
- Coordinator did not ascertain level of understanding
- No mention that participation is voluntary, and can be discontinued at any point

## Issues, continued

- No discussion that this is **research** 
  - Therapeutic misconception
  - Not all products are FDA approved
  - No discussion of randomization and related issues
- Lack of agreement between parents about participation

## Food for thought

- Conflict of interest?
  - Pressure to enroll
  - Financial aspects
  - For parents
  - For investigator

What should have happened?

Scenario 1 revisted

## What was different?

- •Ample time to think about participation
- •Environment conducive to asking questions
- •Discussion of risks of participation

## Other issues that must be addressed:

- Honest explanation of alternatives to participation
- Thorough discussion about study procedures and timelines
  - Will improve compliance of participants
  - Cuts down on early termination

Issues related to obtaining consent involving a second language

## Scenario 2

#### Subtitles for Non Spanish Speakers

- Mr. Participant: [What did she say?]
- Mrs. Daughter: [They are going to give you a medicine for blood pressure, and it's going to make you feel good.]
- Mr. Participant: [What did she say?]
- Mrs. Daughter: [The nurse said, don't worry, everything will be fine.]
- Mrs. Daughter: [Dad, do you have any questions?]
- Mr. Participant: [What do you think I should do?]
- Mrs. Daughter: [Just sign the paper.]

## What went wrong?

- Daughter heard the work "placebo" and didn't understand it, or misheard it, so translated it as a word that sounded similar but had an entirely different meaning
- Concept that study is research was not conveyed
- Daughter was uncomfortable discussing "impotence", so she edited and substituted
- Subject has no idea what he has agreed to do

Suggestions for how it could have been done:

## Scenario 2 Revisited

## What was different?

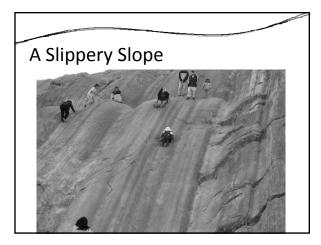
- Bilingual health professional providing translation
  - Not a family member
- Provided opportunity for subject to hear about entire study including risks in an unedited fashion
- Provided way for subject to have information read to him in an impartial manner

## Lessons learned

- Know your potential population
- Be prepared
  - Plan from before you start the study how you will do the informed consent process
  - Form C (questions 4b- especially item 7)
  - Form J
  - Form W
  - Have a consent translated very soon after approval of
  - English consent
  - Form H-1

#### Resources

- <u>http://research.uthscsa.edu/irb</u>
- <u>http://www.hhs.gov/ohrp/humansubjects/guidance/ic</u> <u>tips.htm</u>
- <u>http://www.fda.gov/cder/index.html</u>
- http://www.cancer.gov/clinicaltrials/understanding/si mplification-of-informed-consent-docs/page2
- <u>http://www.nhlbi.nih.gov/childrenandclinicalstudies/i</u> <u>ndex.php</u>



## **Data Safety Monitoring Plan**

# Kimberly Summers, PharmD STVHCS Research and Development

## Developing Your Protocol Specific Data and Safety Monitoring Plan



Kimberly Summers, PharmD Assistant Chief for Clinical Research South Texas Veterans Health Care System Research and Development Service

#### Overview

- What is a Data and Safety Monitoring Plan (DSMP)
- Why is a DSMP required
- Components of a DSMP
  - Assignment of the level of risk
  - Who, what, how the monitoring happens
  - AE reporting mechanism
    - Grading and attribution
  - What, to whom, and within what timeframes
- Reporting of the DSMP and Action plan

#### What is a DSMP?

- A written plan and process
- Individualized to the study
- Developed in regards to the study purpose and design
- Prospectively defines the methods to be used by the Sponsor, PI and study team to oversee safety of study participants
- Involves on-going evaluation of study data
- Ethical responsibility of the study investigators to their participants

## Data and Safety Monitoring Plan (DSMP) VS Data Safety and Monitoring Board (DSMB)

#### Data and Safety Monitoring Board (DSMB)

- Independent committee formed to monitor data with respect to safety and treatment
- Formed for
  - High risk studies
  - Larger, single or multi-center, clinical trials
- Required by NIH for all Phase III studies
- Studies which include an established DSMB by an external entity still require a local DSMP

#### Local PI Responsibilities

■ DSMB

- Limited to collecting information and forwarding to DSMB for analysis
- Implementing local actions based on DSMB analysis if needed
- DSMP
  - Capturing and collecting data
  - Monitoring collected data
  - Interpretation and analysis of collected data
  - Reporting results of analysis
  - Implementing actions based on analysis if needed

#### Why DSMPs Now?

- Society and government have lost confidence in the ability of investigators and scientific community to police itself
  - Result of several high-profile cases
  - Scientific community slow to acknowledge scope and magnitude of problem
  - Intensive auditing identified substantial noncompliance

#### USA Today February 27, 2001

#### • Poor oversight puts research subjects at risk

- "Government system to support participants falls short"
- "..oversight is so disorganized that no even knows...how many participating patients are injured or killed."
- "...close to pitiful, and is surely not enough to counteract the temptation by researchers to bend the rules."
- "...patients will remain at the mercy of universities, hospitals and doctors who have more on their minds then your health."

#### Washington Times Article June 17, 2008

- VA testing drugs on war veterans: Experiments raise ethical questions
  - "government is testing drugs with severe side effects...using small cash payments to attract patients"
  - "VA took three months to alert its patients about severe mental side effects"
  - "VA's behavior in the anti-smoking study violated basic protections for humans in medical experiments"

#### Studies Which Require a DSMP

- All studies considered to be more than minimal risk
  - Involve high risk populations and/or high risk therapies
- Multi-site research where UTHSCSA is the coordinating site
- Studies where there is an NIH or FDA requirement for a plan
- Studies when requested by the IRB

#### Initial and Continuing IRB Review

#### Initial IRB approval

- Research plan must make adequate provisions for monitoring the data collected to ensure the safety of subjects
- IRB must review the DSMP in the protocol developed by the investigator • DSMP needs to include procedures for reporting adverse events (AEs)

#### ■ Continuing IRB approval

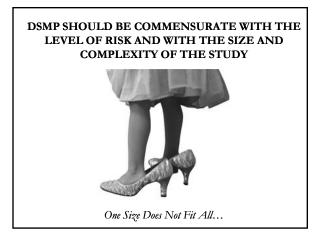
- The investigator must submit to the IRB a written progress report that includes:
  - Information that may impact on risk benefit ratio: summary of AEs and unanticipated problems
  - An assurance that all AEs and unanticipated problems have been reported as required
  - DSMB reports if applicable

38 CFR 16.11(a)(6) & VHA 1200.5§7(a)(6) VHA 1200.5§7(q)

#### Bending Over Backwards To Meet **Regulatory Requirements**







# Level of Monitoring

Minimal risk, single site, low number of participants

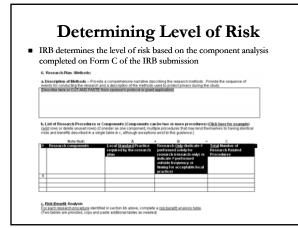


PI monitoring at regular intervals (i.e. during continuing review)

Greater than minimal risk, multiple-sites, high number of participants



Multiple staff at local site, outside monitoring, DSMB, etc.





#### Considerations for Determining Level of Risk and DSMP Design

- Study Phase
  - Phase I and II
    - Small number of patients and short duration
    - High risk or special populations may require additional monitoringIndependent review may not be necessary
  - Phase III
    - DSMB required by NIH
    - Number of subjects and sites increase
    - Increased numbers of subjects are exposed to interventions
    - More frequent and more rigorous reviews needed for local DSMP

#### Considerations for Determining Level of Risk and DSMP Design

- Regulatory Considerations
  - Pivotal studies for INDs require increased monitoring
- Trial Design
  - Randomized, controlled, clinical trials require review of the data both aggregate and by treatment group
- Disease/Syndrome under Investigation
  - High risk and special populations require additional monitoring
  - Increased monitoring may be required for serious and/or life threatening diseases when endpoints are anticipated to occur frequently

#### Considerations for Determining Level of Risk and DSMP Design

Study Population

 Plan should include monitoring of recruitment, enrollment, and retention activities

- Study Intervention
  - Frequency and intensity of monitoring should take into account safety of treatment, indication for use, dosing level and frequency, presence of comorbid diseases, and time on study drug
- Endpoints / Outcome Variables
  - Type and frequency of monitoring will be dependent on the subjects' time on study intervention and time from baseline to final follow-up

#### Who is Monitoring?

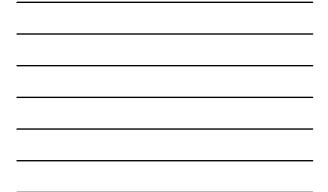
- Always principal investigator (PI)
- May also include:
  - Members of the local study team
  - Independent monitor (i.e. for PI/sponsor)
  - Individuals at Sponsor level
    - Safety Officer
    - Medical Monitor
  - Outside monitor (from CRO or sponsor)
  - Steering Committee or other sponsor groupOutside independent monitoring group
    - DSMB



# Responsible Party at Each Step of Safety Monitoring

(2) Responsibilities Who will be responsible for safety monitoring? (Select all that apply):

Responsible Party: Role:		Collection	Compiling Reports	Analyzing/ Assessment
	The Principal Investigator			
	Other Research Team members (e.g., Co-PI, Research Coordinator, etc.)			
	An independent monitor from this institution (internal). Name:			
	An independent monitor from institution/sponsor (external). Name:			
	A data and safety monitoring board (DSMB)**, an independent DBMB or a data safety monitoring committee (DSMC). Name of DSMB/C: Location of the DSMB/C):			
	Other (describe):			
lf PI is	sole safety monitor of the study, explain how conflict of interest w	II be mitigated	■ N/A	



#### What is Being Monitored?

- Individual AEs
- Progress of study, recruitment, accrual, retention, compliance, consents
- Quality of data
  - CRFs, data entry, etc.
- Security of data
- Assessment of timeliness of data transfer
- PE, lab data, non-lab diagnostic
- And more...

## **Monitoring Focus**

- Collective trends from individual participants which may show that participation in the trial has become too risky
  - Adverse events (AEs)
  - AEs occurring more frequently or with increased severity than anticipated may need to be considered a UPIRSO
  - Time frames for reporting
- Stopping rules (safety and efficacy)
  - Unblinding procedures if applicable
- Interim Analysis (plans, if applicable; specified in protocol)
- Developments which may change the risk-to-benefit ratio
  - If risk-to-benefit ratio changes when should the study be:
    - Changed?
    - Suspended?
    - Terminated?

#### **Adverse Event Reporting**

- Plan should define and clarify
  - Adverse event (AE)
  - Unanticipated problem involving risk to subject or others (UPIRSO)
  - Serious adverse event (SAE)
- Plan for grading toxicities
- Plan for assessing relationship to study enrollment or investigational drug

#### Assessing Severity of AEs

- Grading severity from 0-4 or 1-4
- Examples
  - WHO Toxicity Criteria
  - Common Toxicity Criteria (CTC)
  - Radiation Therapy Oncology Group (RTOG)
  - Division of AIDS Toxicity Grading Table

#### Assessing Relationship of AEs

- Probable
  - Strong relationship
    - AE abates upon discontinuation of the investigational product and recurs with the same characteristics after readministration
- Possible
  - Equally valid arguments can be considered for or against an implication of the investigational product
- Unlikely
  - There are good reasons to think that there is no relationship
     AE is a known adverse drug reaction of a concomitant medication,
    - AE is a known adverse drug reaction of a concomitant medication, and/or the same AE does not reappear after readministration of the investigational product

#### **Integration of Monitoring Entities**

- As part of the DSMP provide information on entities involved in safety monitoring
  - Local medical monitor
  - Local data and safety monitoring boards/committees
  - External medical monitors
  - External safety monitors
  - External data and safety monitoring boards/committees
- Explain how all monitoring entities will be integrated

#### Data Integrity as Part of the DSMP

- Explain how and when data will be reviewed to ensure accuracy
  - Protocol deviations
  - Queries generated and outstanding
  - Internal quality management review
  - Comparing source documents to CRFs

#### **Reporting of DSMP Review**

- PI compiles a brief evaluation summary
  - If the evaluation of the aggregate data reveals an UPIRSO
    - PI must forward to local IRB
    - UPIRSO form must be attached explaining how the evaluation constitutes a UPIRSO
  - If the evaluation does NOT reveal an UPIRSO
    - PI must forward to local IRB a summary of all evaluations as part of continuing review at least annually

#### Conclusions

- Elements of a DSMP
  - Assignment of the level of risk in the particular study
  - Who, what, how the monitoring happens
  - The AE reporting mechanism
  - Including grading and attribution
  - What, to whom, and in what timeframe do events get reported.
- DSMPs are a mechanism for planning for research participant safety and the success of your study

#### Worth it in the End



# **Data Integrity**

# Dawn Lantero, PhD Research Subject Advocate

# CONDUCTING CLINICAL RESEARCH: DATA INTEGRITY

Dawn A. Lantero, Ph.D. Research Subject Advocate Institute for Integration of Medicine & Science (IIMS) University of Texas Health Science Center San Antonio November 13, 2008 lantero@uthscsa.edu



#### **Regulatory Requirement**

"An investigator is required to prepare and maintain adequate and accurate case histories that record all observations and other data pertinent to the investigation on each individual administered the investigational drug or employed as a control in the investigation. Case histories include the case report forms and supporting documents . . . "

--21 CFR 312.62(b) Investigator recordkeeping and record retention

# **Good Clinical Practice (GCP)**

- Following GCPs ensures accuracy and reliability of data generated during course of clinical trial. Compliance with GCPs will ensure:
  - The rights and safety of human subjects are not compromised
  - Appropriately and adequately trained staff manage the study
  - The study is carefully documented
  - Protocol is strictly followed

http://www.ich.org/LOB/media/MEDIA482.pdf Dunn & Chadwick (1999)

#### **IRB Form R**

 Form R: Human Use Research Monitoring Participant Safety and Data Integrity <u>http://research.uthscsa.edu/irb/forms\_A-Z.shtml</u>

#### Science and Truth

 Truth is knowing how everything works at all times under all conditions

- Certainty = Law (e.g., Law of Gravity)
- Not Certainty = Theory/Hypothesis
- People (e.g., scientists, philosophers, parents, etc) are trying to discover Truth

Hergenhahn (1992)

#### **Methods to Discovering Truth**

#### UNSCIENTIFIC METHODS

- Tenacity
  - cling to beliefs despite lack of supporting evident
- Intuition
   common sense
- Authority
- Rationalistic Method
   reasoning
- reasoning
   Empirical Method
  - objective observations

Thomas & Nelson (2001)

- SCIENTIFIC METHOD
- Step 1: Defining and Delimiting the Problem
- Step 2: Formulating the Hypothesis
- Step 3: Gathering the Data
- Step 4: Analyzing the Data
- Step 5: Interpreting the *Results*

#### Validity and Reliability

#### VALIDITY

- Definition: degree to which test/instrument measures what is it designed to measure
- Types
- Logical: involve what is to be measured
- 2. Content: adequately samples course content (education)
- Criterion: related to recognized standard/criterion
- Construct: measures hypothetical construct

Thomas & Nelson (2001)

- RELIABILITY
- Definition: consistency, or repeatability, of measure
   Observed = True + Error
- Sources of Error
  - 1. Participant
  - 2. Testing
- 3. Scoring
- 4. Instrumentation

#### Sources of Error: Participant

 Definition: Error generated by participant through action or inaction (participant compliance), although could be influenced by others

- Examples
  - Hawthorne EffectMood: "bad day"
  - Mood: "bad da
    Motivation:
  - Motivation:Fatigue: physically unable to perform activity
  - Misunderstanding instructions
  - Missing appointments: forgetting (illness; disorganized), transportation
  - Feelings of being overwhelmed: illness, complicated protocol
  - Language: medical lingo, another language

#### Thomas & Nelson (2001) Morse, Simon, Coburn, Hyslop, Greenspan & Balson, (1991) Butler (2007)

#### Sources of Error: Testing

- Definition: Error generated by researcher when executing/running/giving the test
- Examples
  - Lack of clarity or completeness of directions given to participant
  - Amount of adherence to instructions of protocol
  - Addition of supplementary directions or motivation to other researchers/participants
  - Environment perceived by participant as "comfortable" or "uncomfortable"

Thomas & Nelson (2001)

#### Sources of Error: Scoring

 Definition: Error generated by researcher when scoring the test/recording data

- Examples
  - Carelessness and inattentiveness
  - Lack of competence, experience and/or dedication of the scorers/recorder
  - Incomplete source documentation
  - Inaccurate recording on Case Report Form (CRF) or transferring of data to electronic system

Thomas & Nelson (2001)

#### Sources of Error: Instrumentation

- Definition: Error generated by instrumentation; ultimately, researcher is responsible
- Examples
  - Lack of calibration of mechanical and electronic equipment
  - Insensitivity to variable of interest
  - Mechanical malfunction
  - Low batteries

Thomas & Nelson (2001)

#### **Quick Review**

- 4 sources of error that compromise reliability of data
  - 1. Participant
  - 2. Testing
  - 3. Scoring
  - 4. Instrumentation
- Reliability (Observed = True + Error)  $\rightarrow$ Validity  $\rightarrow$  Scientific Method  $\rightarrow$  Truth

#### Sources of Errors & **Proposed Solutions**

- 1. Participant (locus of control: participant)
  - a) COMMUNICATION
    - Make eye contact 1. 2. Use participant's name
    - 3. Be honest
    - 4. Be supportive
  - b) Respect 1. Privacy

    - Time management 2.
    - Be accessible 3.
  - c) Handout from Susan Lowell Butler
  - d) Butler (2007)

Morse, Simon, Coburn, Hyslop, Greenspan & Balson (1991) Theiden , Philipsen, & Wulf (2006)

#### Sources of Errors & **Proposed Solutions**

2-4. Testing, Scoring, Instrumentation (locus of control: Researchers; ultimately: PI)

- a) Training 1. "...st

  - raining "... study was performed on the premise where the participants were doing the study for us and not vice versa." (Theiden, Philipsen, & Wulf, 2006, pg. 97) Know & follow the protocol: "The investigator of a study is required by law to conduct the study according to the: investigational plan (including the protocol and the IRB stipulations)..." (Unun & Chadwick, 1999, pg. 44) Follow instructions for testing instruments/assessments Practice, practice Scope of Practice duies only (HOP 7.2.3; http://research.uthscsa.edu/ocr/ScopeofPracticeStudyFor m.pdf) 2.
  - 3. 4.
  - 5.

#### Sources of Errors & **Proposed Solutions**

2-4. Testing, Scoring, Instrumentation (locus of control: Researchers; ultimately: PI) con'd

b) Data & Safety Monitoring Plan 1.

- Examples: internal/external monitor; DSMB/C; Form R
- 2. Considerations (Form R)
  - 21 CFR 56.111 (6); 45 CFR 46.111 (6); VHA Handbook a) 1200.5
  - How will data integrity be assessed? b)
  - When will data integrity be assessed? c)
  - d) Who is responsible?
  - If there are other monitoring entities, how will these e) activities be integrated?

#### **Proposed Solutions:** Other Resources

- Any presenter from today Office of Clinical Research Director: Holly Nolan, MS IRB Director Joseph Schmelz, PhD, RN, CIP Associate Director: Roy Estrada, PhD, PA-C, CIP VA

- koy istrada, indu PAC, CIP VA Carl Chief of Staff for Research: Network McBay, MD Besearch & Development: Kim Summers, PharmaD Office of Regulatory Affairs Manager of Clinical Study Monitors Anna Tannova ComplianceLine Hotline 1-800-500-0333 Research Subject Advocate: Dawn Lantero, PhD Dr. Jenice Longfield, Assistant Vice President for Kesearch Operations (210) 567-0651 Longfield@uthscsa.edu
- HOP 1.3.6 Vice President for Research
   HOP 7.2.1 Human Research Protection Program (HRPP) Responsibilities
   HOP 1.6.6 Institutional Review Board
   HOP 7.2.2 Institutional Review Board Responsibilities
   Complaints Policy & Procedure
   Noncompliance Policy & Procedure
   Office of Regulatory Affairs & Compliance
   VHA Handbook 1200.5

HOP 1.3.6 Vice President for

VHA Handbook 1200.5

#### Wrap Up

- Data are the integral part of any research when following the Scientific Method in quest for Truth
- Reliability: Observed = True + Error
- Data not reliable due to participant, testing, scoring, and/or instrumentation errors, then GCP not followed

  - Violating scientific method
  - Invalid results → no benefits for study (Belmont Report)  $\rightarrow$  put participants as risk for no reason

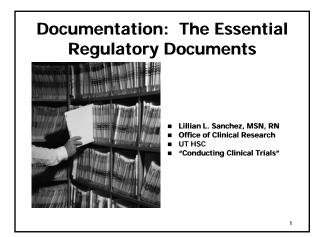


#### References

- Butler, S.L. (2007). Clinical research: A patient perspective. In J.I. Gallin & F.P. Ognibene (Eds.), Principles and Practice of Clinical Research, 2<sup>nd</sup> ed. (pp.143-153). Amsterdam: Elsevier Inc.
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- Amsterdam: Lisevier Inc. Dunn, C.M., & Chadwick, G. (1999). Protecting Study Volunteers: A Manual for Investigative Sites. Boston: CenterWatch, Inc. Hergenhahn, B.R. (1992). An Introduction to the History of Psychology, 2<sup>nd</sup> ed. Pacific Grove, CA: Brooks/Cole Publishing Company. ٠
- The International Conference on Harmonisation of Technical Requirements for Registration of Pharmaceuticals for Human Use (ICH) (http://www.ich.org/LOB/media/MEDIA482.pdf) Ð
- (http://www.ich.org/LOB/media/MEDIA482.pdf). Morse, E.V., Simon, P.M., Coburn, M., Hyslop, N., Greenspan, D., & Balson, P.M. (1991). Determinants of subject compliance within an experimental anti-HIV drug protocol. Social Science & Medicine, 32, 1161-1167. Theiden E., Philipsen, P.A. & Wulf, H.C. (2006). Compliance and data reliability in sun exposure studies with diaries and personal, electronic UV dosimeters. Photodernatology, Photoimnunology, & Photomedicine, 22, 93-99. Thomas, J.R. & Nelson, J.K. (2001). Research Methods in Physical Activity, 4<sup>th</sup> ed. Champaign, IL.: Human Kinetics: ·
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# Documentation: The Essential Regulatory Documents

# Lillian Sanchez, MSN, RN



# OBJECTIVES

- List the essential documents that must be maintained during the conduct of Human Subject Research
- Become aware of the securing and retention practice of research records
- Describe "Good Documentation Practice"
- Knowledge that this practice will lead to "Good Clinical Practice" in research

# What is a Regulatory Binder?

- A binder containing the essential regulatory documents for the conduct of a clinical trial
  - Protocol specific information
  - Regulatory requirement documentation
  - All study related correspondence



#### Purpose of Essential Regulatory Documents

1. Serve to maintain and communicate information that is essential for:

> the compliance of the institution, investigator, sponsor, CRO and monitors, with all regulatory requirements

#### Purpose of Essential Regulatory Documents

- 2. Assist in the management of the trial Staff has access to protocol information and procedures
- 3. Make available the documents that are essential for audits by sponsors or inspections by regulatory authorities.

# Purpose of Essential Regulatory Documents

4. Allow for the evaluation of:A. The conduct of the trialB. The integrity of the data







## Important!!!

- All clinical trials must have a regulatory binder at the time of the study start-up
- Keep all original and revised documents
- Do not start the study without IRB approval
- Most important: Select a secure area



# **Regulatory Binder Organization**

- Set up SOPs in your department for document organization: who, what, when, where and how
- Arrange binders as per sponsor requirements
- Make your own if not specified or if it is Sponsor-investigator initiated study

# Regulatory Binder Organization You may need more than one binder make note in main binder of additional binder(s)' existence Use tabs to organize sections Place in chronological order and most recent on top



## **Documents Maintained**

- Preparatory documents and correspondence
- Study/trial documentation and correspondence
- Closing/end documentation and correspondence



# **Preparatory Documents**

- Investigator and Research Staff
  - Educational qualifications, current Curriculum Vitae (CV), licensure, Research Scope of Practice Form
  - Training records
  - Financial disclosure forms ; conflict of interest management plans

## **Preparatory Documents**

- Proposal Documentation as applicable
  - FDA 1571 (Sponsor Investigator IND)
  - FDA 1572
  - Research Agreements, Financial agreements, Certificate of Proposal, Clinical Trial Agreements

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- Proposal/Planned Research Activities

## **Preparatory Documents**

- Institutional Review Board
  - Application Protocol Submission Documents (Go to OIRB website for latest policy and forms)
    - All Information to be given to participants
      - Advertisement and planned compensation
      - Screening/recruitment scripts
      - Informed Consent plans and documentation
      - Educational material for the participant

#### **Preparatory Documents**

#### Institutional Review Board

- Application Protocol Submission Documents
  - Include investigative tools/guestionnaires and
  - description of all planned interventions
  - Safety monitoring plans
  - Copies of Case Report Forms to be used
  - Investigator brochure/manual of test article
- Emails, letters to and from the OIRB
- IRB Approval Letter



#### **Preparatory Documents**

- Other approval documents
  - Radioactive Drug Research Committee
  - Radiation Safety Committee
  - Institutional Biosafety Committee
  - Affiliate Research Review Unit approval



#### **Preparatory Documents**

- Procedures, Study Manuals
- Delegation of Authority/Signature Logs
- Extra Blank forms: e.g., questionnaires CRFs, test article order forms and test article accountability forms
- Study plan including also: schedules, budget billing grids

#### Study in Progress Documentation

#### ■ All Continued IRB Communication:

#### Related to ongoing research:

- Protocol modifications and amendments
- Reports to the IRB: e.g., Continuing Reviews, UPIRSOs
- Changes in the information given to
- participants/consents
- Changes in research team members
- Communication to and from the IRB

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#### Study in Progress Documentation

- Keep all versions of all IRB submitted documents
- Use only IRB approved documents with participants
- Maintain in chronological order keeping the latest version on top
- Keep most recent IRB approved Informed Consent form in a plastic sleeve.

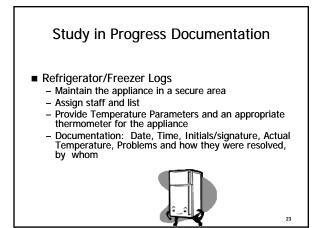


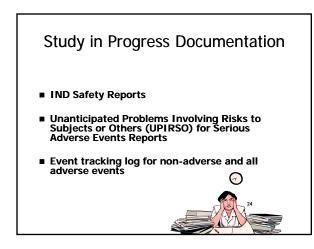


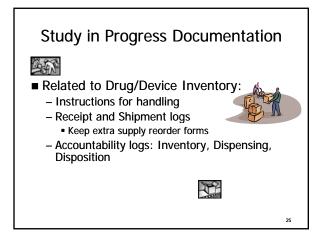
#### Study in Progress Documentation

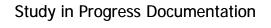
- Study Logs Cont'd
  - Equipment logs: calibration, repair, and or QA logs
  - Records/logs of specimen/tissue samples; include shipment information
  - Clinical Monitor site visit logs











Drug receipt/dispensing/return logs should list:

- Dates received, dispensed or returned (check against manifest)
- Persons receiving, dispensing or returning (note condition of the article)
- Accurate number of kits, number of packages or containers per kit, number of tablets or drug per container or kit, dosages of each
- Lot or batch numbers



# Essential Documents (ICH GCP, FDA)

- Related to Drug/Device cont'd:
- The PI is Responsible for the Test Article
   Drug logs may be kept in pharmacy (keep a copy and meet to reconcile at least weekly)



#### Study in Progress Documentation



- Medical/Laboratory/Technical Procedures/Tests :
  - Laboratory Certification Requirements required by Clinical Improvement Act (CLIA)1988 Updated 2003) issued by accreditation organizations such as College of American Pathologists (CAP), COLA (formerly Commission on Office Laboratory Accreditation)
    - CV of Laboratory Director
    - Established quality control and/or external quality assessment or other validation (keep records) 28

#### Study in Progress Documentation

- Medical/Laboratory/Technical Procedures/Tests Cont'd:
  - Normal Values/Ranges
  - Analysis Reports: PI initials and dates reports. PI documents actions taken for clinically significant test values



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#### Study in Progress Documentation

General Correspondence

conversations with sponsors

Letters and Memoranda



- Facsimiles
- Electronic communication between sites, monitors, sponsors and other trial related groups

#### Study in Progress Documentation

Participant Files



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- Original Signed Informed Consents
- Documentation of Informed consent process
- Copies of executed case report forms (CRFs)
- Source documents, copies of source documents (note location of originals)
- Individual visit/procedural notes
- Individual Calendar of Events-visit schedule

#### **Closure Documentation**

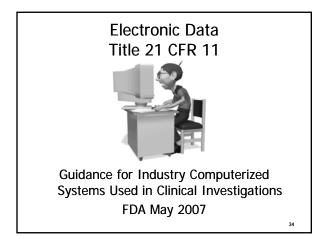
- Final Report to the IRB
- Closure documents and correspondence with the Sponsor
- Disposition of test articles

# Other Important Documents

#### Financial Records

- Account for charges: Start amounts, used amounts, and receipts
- Reflect charges on source documents
- Know current laws related to billing for standard of care in research activities





## Electronic Records External and Internal Safeguards

- 21 CFR 11 Specific Processes Required: SOPs, limited access, audits trails, automatic date and time stamp and training
  - For electronic records and signatures ensure accuracy, reliability, consistent performance and security
  - Program must independently record date, time, and signature in all entries and actions that create, modify, or delete

## **Retention/Archival**

- Follow UT HSC Policy HOP 2.2.1
- Always keep for the longer time frame requirement if there are multiple agencies' requirements

# Don't keep just the skeletons!

- What you don't keep or how you keep what you have can come back to haunt you!
- The body of your work supports the study





#### **Retention/Archival**

- NIH- 3 years after the final financial report and all other records/documents per grant
- NSF- retain for at least 3 years
- HHS- IRB retains records for at least 3 years after completion of research. The PI retains signed subjects ICF for at least 3 years after study completion



# **Retention/Archival**



#### ■ FDA 21CFR312.62 (DRUG)

- 2 years following the date a marketing application is approved for the drug for the indication for which it is being investigated
- or, if no application is to be filed or if the application is not approved for such indication, keep for 2 years after the investigation is discontinued and FDA is notified.
- FDA may require longer

# **Retention/Archival**



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#### ■ FDA 21 CFR 812.140 (DEVICE)

- 2 years after the latter of the following two dates:
  - The date on which the investigation is terminated or completed,
  - or the date that the records are no longer required for purposes of supporting a premarket approval application or a notice of completion of a product development protocol.
  - FDA may require longer time frame for retention

# **Retention/Archival**

■ FDA:

 The investigator may withdraw from the responsibility to maintain records and transfer custody of the records to another faculty or staff person who will accept responsibility for them.

• No FD tra sh

 Notice of a transfer must be given to the FDA no later than 10 working days after the transfer occurs. A copy of that notice should also be sent to the IRB.

#### **Retention/Archival**

UT HSC

- UT HSC HOP 2.2.1
- HIPPA
- Funding source

Primary:

- State of Texas Record Retention Schedule for HSC
   Access Records Management at HSC Library for most current schedule
  - 42

#### **Retention/Archival**

What is the definition of a state record? Are all records at the UTHSCSA considered state records? A state record is any written, photographic, machine-readable or other recorded information created or received by or on the behalf of a state agency or elected state official that documents activities in the conduct of state business or use of public resources Keep 15 years

#### **Retention/Archival**

- VA Retain for 5 years
- Notify the office of Research and Development
- Refer to VA Policies



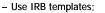
#### Documentation

- Must be:
  - Legible (not legible = what happened?)
  - Timely At time of event
  - Accurate
  - Consistent (CRFs with Source Documents; dates of events)
  - Remember "If not documented it did not get done."
  - Accountable (Who entered what)



#### Documentation

Informed Consent Form



- STVHCS use IRB/VA template
- Fill in the blanks appropriately
- Right Persons Sign It, Time and Date It
  - Subject or guardian
  - Proper Research Team Member, impartial witnesses
- Dates and times are consistent for all and written at the time of signature.

# Documentation

Document the Informed Consent Process

- "Research Consent/Enrollment Note Includes:
   The Names of: Study, the PI, person obtaining consent; person signing for participant if other than participant
  - Statements that: the study was explained to the participant (surrogate); that participant (surrogate) signing was capable of understanding the consent process; participant was given opportunity to ask questions and your response; that a copy of ICF was given to the participant as well as contact information for concerns or questions

## Documentation

- Ascertain Progress Notes Include:
  - The Research Procedures, treatments or interventions that may impact a patient's medical care
  - Research procedures/results used that are standard of care
  - Indications for this study treatment and potential risks (physical/psych); possible drug interactions and or toxicities
  - Instructions given and "teach back" by subject

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46

#### Corrections

- Draw <u>one line</u> through the error, write the correct information, initial and date
- Corrections to CRFs, in general should be done only by:
  - The person that recorded the error
  - Those authorized in the delegation of authority document: Investigator, Research Nurse, Research Coordinator

#### Corrections

- NOTE: Corrections to <u>source documents</u> should be <u>done only by the person that</u> recorded the error:
  - A straight line is drawn through the error, the correction is made, initialed, and dated.
  - Notation or addendum may be necessary to clarify why correction is made. Explanation is needed if late entry was made or if another person corrects
  - Throw Away White Out solutions!

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#### References

- UT HSC Handbook of Operating Procedures Chapter 2
   Record Retention Schedule:
- http://www.library.uthscsa.edu/university/rrsSearch.cfm
- FDA Title 21: CFR 11; CFR 312; CFR 812;
  Guidance for Industry Computerized Systems Used in
- Clinical Investigations FDA May 2007
- HHS Title 45 Part 46
- International Conference on Harmonisation E 6 Guidelines Good Clinical Practice Chapter 8: Essential Documents for the Conduct of a Clinical Trial
- VA Handbook 1200.05

# **Study Drug Accountability**

# Jennifer Hillman, PharmD Scott Soefje (CTRC), PharmD Virginia Doyal (VA), PharmD, BCPS

# Study Drug Accountability University Health System

Jennifer Hillman, PharmD

#### UHS Research Department Points of Contact

Evelyn Swenson-Britt, MS, RN Clinical Research Director Magnet Project Director 4502 Medical Drive Mail Stop 96-1 San Antonio TX 78229-4493 Phone: 210-358-4176 E-mail: evelyn.swensonbritt@uhs-sa.com Joan Thomas RN, MSN Clinical Research Cordinator, UHS Research Department 4502 Medical Drive Mail Stop 96-1 Phone: 210-358-0026 Fax: 210-358-8496 E-mail: joan.thomas@uhs-sa.com

Department Website: <u>http://www.universityhealthsystem.com/Research/</u> Research\_Department\_Home.htm

## UHS Inpatient Pharmacy Points of Contact

- Jennifer Hillman, Research Pharmacist Phone 358-0418 jennifer.hillman@uhs-sa.com
- Beverly Miller, Research Technician
   Phone 358-1087 <u>beverly.miller@uhs-sa.com</u>
- Javier Palacios, RPh Research Supervisor Phone 358-0398 <u>javier.palacios@uhs-sa.com</u>
- Jimmy Sanchez, Technician weekend coverage Phone 358-2900

When contacting pharmacy please be sure to speak with someone live on the phone rather then leaving a message

# **UHS Pharmacy Capabilities**

- Hours of Operation: 24 hours per day/ 7 days per week
- Room temp, refrigerated and frozen
- All Dosage Forms

# Fee Structure

- Before submitting a budget to the sponsor, ensure that pharmacy charges are included.
- A financial supplement will be sent to you from the UHS research department
  - Includes the fee structure from the various necessary departments
  - Sign and return to UHS research department
  - Assigned project number

# Order Sets

- Inpatient
  - Inpatient order sets are to be developed by the Research Coordinators
  - Order sets will be delivered to the UHS Research Department when submitting the research protocol
  - Once the research department has received the signed financial supplement it will forward the orders to Allyson Clark who will enter the information on SunRise
- Outpatient
  - Created by inpatient pharmacy
  - Coordinate with UHS inpatient pharmacy to ensure order sets are available prior to patient enrollment
  - Provide a hard copy or fax of the order to inpatient pharmacy for record of dispensing

# **Monitor Visits**

- Unannounced monitor visits may not be accommodated
- Contact inpatient pharmacy at least 2 weeks in advance to set up appointment.

## Education

- Pharmacy requires education either from the drug company or the clinical study coordinator prior to beginning a research study
- We will <u>NOT</u> start a study if the pharmacy department has not been given appropriate direction
- If there are changes or amendments to the protocol please provide a copy to pharmacy
- Keep pharmacy informed of any direct changes to the study drug and ensure that pharmacy is aware of how the change will effect overall procedures

# Study Binder

- Tab 1 UHS approval letter
- Tab 2 IRB approval letter
- Tab 3 Key personnel with contact information
- Tab 4 study protocol with amendments
- Tab 5 Informed consent
- Tab 6 Sample order form/IVRS worksheets
- Tab7 Drug accountability
  - Shipping receipts/faxes/
  - Date/time/quantity/lot #/strength

# Study Binder

- Tab 8 patient specific drug accountability
  - Subject name
  - Subject study number
  - Subject mrn number
  - Date dispensed
  - Dose/quantity dispensed
  - Lot # / expiration date
  - Date retuned (if applicable)Initials of person dispensing
- Tab 9 drug destruction records

# Study Drug Delivery

 All investigational study medication dispensed to patients enrolled at UHS must be shipped DIRECTLY to UHS inpatient pharmacy

# Study Drug Dispensing

- When picking up research medications staff must be properly identified with name badge
- All medication will be logged out of pharmacy using a designated research record for dispensing

# Study Drug Returns

- Record the amount returned
- Pharmacy will perform a double count and log the returned medication
- Pharmacy will store all the returned medication until the monitor gives final approval for proper destruction

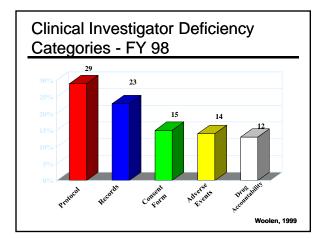


# Drug Accountability in Clinical Research

Scott Soefje, Pharm. D., BCOP Investigational Drug Section CTRC @ UTHSCSA San Antonio, Texas

## **Investigator Responsibility**

- FDA regulations require investigators to establish a record of the receipt, use and disposition of all investigational agents
- Part of FDA 1572 responsibilities
- This responsibility may be delegated
- The intent is to assure that drug product is used only for patients enrolled on an approved clinical trial





#### **Investigator Responsibilities**

- Failure to maintain records is considered non-compliance
- Failure to comply with the study protocol may:
  - \* Affects acceptability of trial data
  - \* Result in study termination
  - \* Suspension of research activities at the site
  - \* Result in fines

#### **Steps in Drug Accountability**

- Ordering
- Receiving
- Storage
- Dispensing
- Returning
- Transfers

#### Ordering

- Drugs must be ordered according to the study protocol
- The process may be vastly different between protocols, need to work with sponsor to determine how this is done
- Usually takes 2 4 working days to process orders
  - \* In urgent situations, may be able to process overnight

#### Receiving

- Review shipping manifest and compare with actual drug delivered
- SAVE THE SHIPPING RECIEPT
- Sign in on Drug Accountability Record (DAR)
  - \* Date received
  - \* Strength and dosage form
  - \* Quantity
  - \* Manufacture and lot number
  - \* Signature of person receiving

#### **Drug Accountability Record**

- Separate log for each protocol
- Part of regulatory documents
- Elements needed for DAR
  - \* Protocol title and number
  - \* Investigator
  - \* Institution and dispensing area
  - \* Drug name, form and strength
  - \* Page number of DAR
  - \* Balance

Sample Drug Accountability Log									
50			Diug		cou				-09
								CARE N	pro.ed 6.0654240 11000007
National Institutes of Health National Cancer Institute Investigational Agent Accountability Record				Cancer The	Cancer Treatme rapy Evaluation	nt and Diag Program	10	PAGE NO. CONTROL RECORD	
_	Institution:	gent Acco	oncaonity Reco		SATELLITE RECORD				
Agent Name:						Dosa Form and Strength:			
Profocol Title:						Dispensing Area:			
Investigator Name:						NCI Inves	figator No.:		
ine is.	Date	Patient's Initials	Patient's ID No.	Dose	Quantity Dispensed	or	ance Forward	orward Manufacturer and Lot No.	
					Received	-	Balance		<u> </u>
						_			



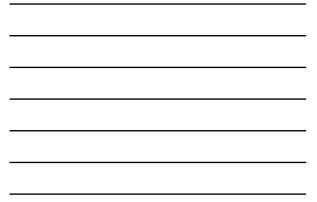
#### Storage

- Stored in labeled container with drug name, dosage and protocol
- Separate from commercial drugs
- Separate by protocol
- Separate by lot number
- Locked and limited access area
- Proper conditions
  - \* Temperature and humidity logs may be required

#### Dispensing

- Each transaction is recorded on the DAR
  - \* Date
  - \* Pt initials and ID number
  - \* Dose
  - \* Quantity
  - \* Manufacturer, Lot # and bottle number (if necessary)
  - \* New balance

							CAR	10070-460 No. 0425-0242 H. 11.05/2007	
					Cancer Treatme rapy Evaluation	nt and Diagnosis n Program	PAGE NO. CONTROL RECORD		
Name of Institution:						NCI Protocol No.:			
Agent Name:						Dosa Form and Strength:			
Protocol Tile:						Disponsing Area:			
Investigator Name:						NCI Investigator N	ió.:		
Line No.	Date	Patient's Initials	Patient's ID No.	Dose	Quantity Dispensed Receiver	or	and Lot No.	Recorder's Initials	



#### Dispensing

- Drug that is prepared but not used must be documented as wasted
- Oral medications should be accompanied by a patient medication diary.
- The patient should bring back oral medication bottles for reconciliation
  - \* Even empty bottles
- Partial injectable vials
  - \* Some companies may want you to keep
  - \* Do not recommend doing this

#### **Returns and Transfers**

- Returns
  - \* Complete appropriate paperwork
  - \* Complete inventory balance
  - \* Drugs may be destroyed on site if authorized by the sponsor
- Transfers
  - \* May be transferred to satellite sites
  - \* Although not routinely done, study drug may be transferred between studies, if allowed by sponsor

#### **Drug Accountability**

A well designed system that accounts for drug from the initial shipment to final disposition and is error-free should allow for drug reconciliation in less than 20 minutes

#### References

- Friedman L. Managing drug accountability. Community Oncol. 2007:4;487- 9
- Lieck DJ, Bertram JE. Drug accountability at the investigative site. Applied Clin Trials. 2002:36-44.
- Woolen, SW. Improving Quality: What now. <u>http://www.fda.gov/present/pediatric/phr99web</u>. 1999. Accessed 2/18/2008.
- National Cancer Institute/Pharmaceutical Management Branch. Requisition and management of agents. <u>http://ctep.cancer.gov/requisition/index.html</u>. 2002. Accessed 2/18/2008



CONDUCTING CLINICAL TRIALS Study Drug Accountability STVHCS – Audie L. Murphy VAMC

Virginia Doyal, Pharm. D., BCPS

# Points of Contact

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# Point of Contact

BMT Research Pharmacist Michael John Gass, Pharm. D. 7400 Merton Minter Blvd. STVHCS San Antonio, Texas 78229 Telephone 210-617-5300 ext 16227 or 16597

# Point of Contact

George Melnik, Pharm.D., BCPS South Texas Veterans Health Care System Clinical Pharmacy Coordinator Pharmacy Research Coordinator 210-617-5300 ext 14463 210-949-3433 FAX

## Research Accreditation

- VA Central Office mandates research accreditation
- NCQA -National Committee for Quality accreditation
- AAHRPP –Assurance Association for the Accreditation of Human Research Protection Programs – site visit September 2008
- Affiliate UTHSCSA IRB site visit Jan'09

#### The following documents per VA Policy Memorandum 119-05-05 should be present in the research pharmacy prior to delivery of an investigational drug to the research pharmacy and the initiation of dispensing of that drug:

- Copy of protocol
   Letter with R&D approval
- Letter with R&D approval
   Letter with IRB approval
- VA 10-9012 (Invest Drug Information Record)
- 5. FDA 1572 or IND number (if appropriate)
- Impact statement- signed by Chief of Pharmacy and Chief of Research Pharmacy
- 7. Invoice with documentation of drug delivery & source
- Drug must have expiration date posted on label or invoice,or have a memo stating who will monitor that dating.

# Prior to Dispensing study drug

- VA 10-9012 now needs to be scanned into the subject's electronic chart prior to dispensing study drug.
- Entire Signed Consent forms needs to be scanned into the subject's electronic record prior to dispensing study drug.
- Written/Electronic Order prescriber listed on VA 10-9012
- List of authorized personnel who may pick up study medication from the research pharmacy for the patient
- Memo specifying the procedure for the research pharmacy for unblinding a subject;s study medication

# Research Drug Storage outside Research Pharmacy

If investigational drug is stored outside the research pharmacy, a contractual agreement (approved by Chief of Pharmacy and Chief of Research Pharmacy) must be in completed prior to starting study.

 Please note: The storage of investigational drugs outside of the Pharmacy needs to be discouraged when a pharmacy is located within the VA facility per VA policies

 Example: TB Studies- DOT –Antibiotics stored in physician's office,

# The Principal Investigator will maintain the investigational drug spreadsheet log containing the following information: Sosage form and strength Sosage form and strength Manufacturer or other source Date of receipt of the drug Cuantly received Expiration date Control number Anadomization number of the patient receiving the medication Name of investigator receiving medication, if applicable Cuantly dispensed or transformed. Protocol number The amount of drug currently available Informed Consent is required for transfer medication. Transfer personnel will sign for the transfer signment.

- A copy of Form 10-9012
  - A final entry will be made when use of the investigational drug is discontinued. This entry will document the date of the termination of use the drug, the quantity remaining, and the action taken to dispose of the balance on hand.

#### Investigational Devices in Human Research

1. VA policy and procedures for the use of investigational devices in human research at the South Texas Veterans Health Care System (STVHCS) per FDA's IDE regulations, 21 CFR Part 812, other FDA regulations and VHA regulations.

2. The Department of Veterans Affairs (VA) clinical investigations of medical devices are subject to the Federal Food, Drug, and Cosmetic Act and unless exempted under certain specified conditions, are required to comply with IDE regulations as outlined in 21 CFR 812. VA investigators are expected to fulfill all of the responsibilities delineated in the Food and Drug Administration (FDA) regulations. The Pharmacy Service will document receipt, control, custody, and dispensing of the investigational devices.

#### The Principal Investigator is responsible for:

After obtaining approval for use of the investigational device by preparing and submitting appropriate documents for review to FDA and preparing a written protocol.

- Protocol Approval by the Research and Development Committee and the Institutional Review Board. FDA approval must be obtained subsequent to IRB approval.
- 2. Delivering the investigational devices to the Pharmacy Service.

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- Ensuring the investigational devices are stored in a locked, secure area
   Obtaining and properly documenting informed consent for the use of the device.
- The consent and the VA 10-9012 (if applicable) will be electronically scanned into the subject's records with an enrollment note.
   Maintaining records and accountability of all investigational devices.
- Maintaining records and accountability of all investigational devices.
   Ensuring proper utilization of the investigational device as outlined in theapproved protocol.

# The Research Pharmacy is responsible for:

(1) Receipt and storage—from the sponsor and will create an inventory of devices and accessories for the protocol.

and accessories for ine protector. (2) Accountability—An inventory log, with the lot number and expiration date of the investigational device and accessories, track the receipt and dispensing of investigational devices and accessories with invoices accompanying the shipment of the investigational devices and accessories.

(3) Dispensing—The investigational device and accessories will be dispensed to the protocol subject after a copy of consent form and the VA 10-9012 has been scanned into the subject's electronic record and upon receipt of an electronic order in CPRS or a written order signed by the principal investigator has been received. (4) Disposal—Disposal of investigational devices and accessories after instruction is received from the protocol sponsor.

REFERENCE: M-2, Part VII, Chapter 6:

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Compounding and Special Preparation Research Medications – Discussion and prior written approval agreement by Chief of Pharmacy and Chief of Research Pharmacy

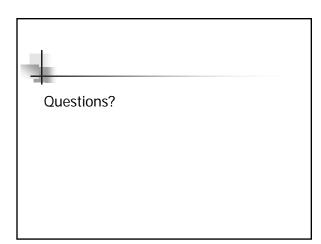
- Compounding, making capsules, weighing powders/chemicals from canisters
- Special preparation procedures- defrosting, vortexer agitation, dilutions
- Manufacturing high risk sterile products
- Special Storage refrigeration, 70 degree centigrade freezer or large volume/amount dispensing.

 Fees – To be determined by Chief of Pharmacy and Chief of Research Pharmacy per agreement and impact statement.

- Covers receipt, storage and dispensing.
- Compounding & Preparation

# Study Monitor Visits

The R&D Office must be notified of each study monitor visit and provided with a report of all findings.



# **Adverse Events (UPIRSO)**

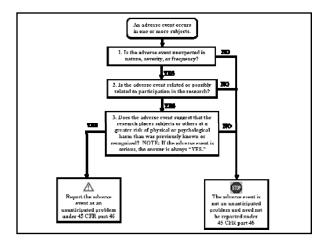
# Roy Estrada, PhD, PA-C, CIP Associate Director, IRB

# Unanticipated Problems Involving Risk to Subjects or Others (UPIRSO)

Roy R. Estrada, PhD, PA-C, CIP Associate Director IRB UTHSCSA

# What?

- The UTHSCSA Institutional Review Board (IRB) applies a reporting process based on federal guidance that may apply to any incident, experience, or outcome determined by the PI to be an unanticipated problem involving risks to subjects or others (45 CFR 46.103(b)(5)).
- The scope of what must be reported promptly to the IRB is narrow





# Other unanticipated problems not adverse events

 Upon becoming aware of any other incident, experience, or outcome (not related to an adverse event; that may represent an unanticipated problem, the investigator should assess whether the incident, experience, or outcome represents an unanticipated problem by <u>applying the criteria</u> <u>described [previously]</u>.

#### Scenario #1

- Ph II, clinical trial testing a new investigational antihypertensive drug, at UTHSCSA
- Determined by the IRB as greater than minimal risk
- No documented evidence of GERD associated with the drug
- 3 of 10 subjects had severe GERD that began within one week of starting drug
- Anticipated or Unanticipated?
   Related or Unrelated?
- Related or Unrelated?
   Serious? If not Greater
- Serious? If not, Greater Risk?
   Internal or External AE: Is it an /
- Internal or External AE; Is it an AE?
- Report to IRB? If yes, what time frame?

## **Categories of Reporting**

- Prompt reporting:
  - Promptly report all adverse events and unanticipated problems that might meet the definition of "Unanticipated Problems Involving Risks to Subjects or Others"

## **Categories of Reporting**

#### • Prompt reporting:

 Promptly report all adverse events and unanticipated problems that might meet the definition of "Unanticipated Problems Involving Risks to Subjects or Others"

#### • Non-Prompt Reporting:

-Not meet definition of UPIRSO -Summarize Non-UPIRSO / UPIRSO in next progress report.

# **Categories of Events**

Adverse Events involve "physical or psychological harm"

Non-Adverse Event does not involve physical or psychological harm

# Categories of UPIRSO Criteria

<u>UNANTICIPATED</u> e.g., not in the consent form, Sponsor Brochure, or labeling; not expected as part of subject's disease or condition

<u>RELATED</u> e.g., (or possibly related) a result of the research interaction/ identifiable data collection

<u>GREATER RISK</u> to subjects or others e.g., harm (including physical, psychological, economic, or social harm)

SERIOUS e.g., severe/life threatening/fatal

# **Categories of UPIRSO** Criteria

UNANTICIPATED in Nature, Severity or Frequency

#### **RELATED** Reasonably Sure

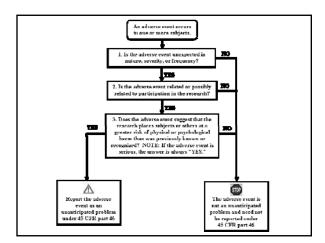
**GREATER RISK** Greater Risk of harm than was previously known or recognized **SERIOUS** relates to adverse events should always represent GR

#### Scenario #1

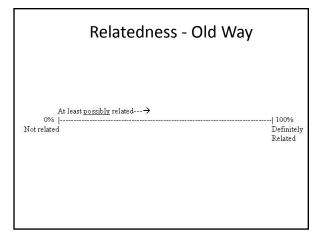
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- Determined by the IRB as greater than minimal risk
- No documented evidence of GERD associated with the drug
- 3 of 10 subjects had severe GERD that began within one • week of starting drug
- Anticipated or Unanticipated?
- **Related or Unrelated?** .
- Serious? If not, Greater Risk? •
- Internal or External?
- Report to IRB? If yes, what time frame?

#### Scenario #1 Is a UPIRSO

- Internal Adverse Event
- Unanticipated and Related
- Not Serious
- Greater risk than previously known
- Prompt report
- Submit changes, submit UPIRSO report to IRB within 7 days

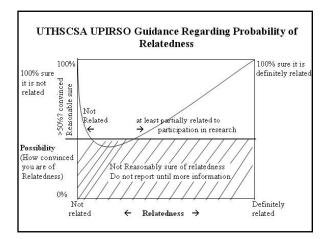




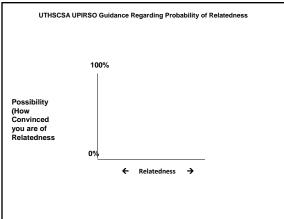


#### Scenario #2

- International study -multiple countries-multiple sites
- UTHSCSA is IRB for local PI and VA PI
- Methods: interviewing 2000 mothers (mothers and babies are subjects) regarding breastfeeding (records)
- IRB determined to be minimal risk
- Known risks of breach of confidentiality
- VA study coordinator reports that 6 babies (subjects) died of malnutrition
- Anticipated or Unanticipated?
- Related or Unrelated?
- Serious? If not, Greater Risk?
- Internal or External AE?
- Report to IRB? If yes, what time frame?







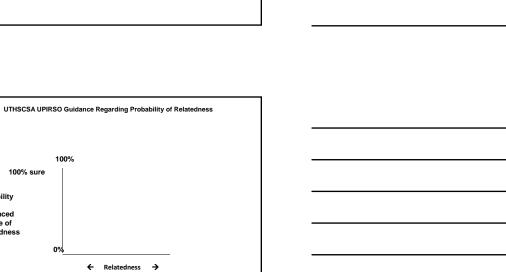
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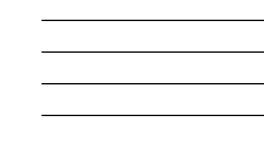
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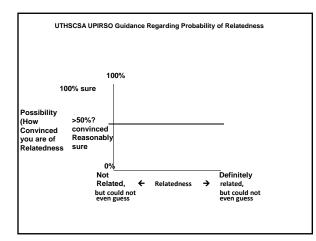
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100% sure

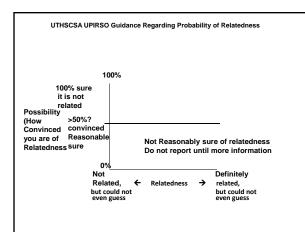
Possibility (How Convinced you are of Relatedness



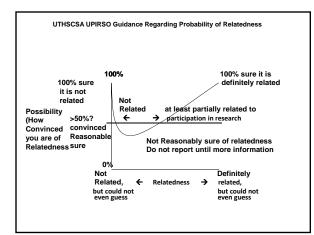




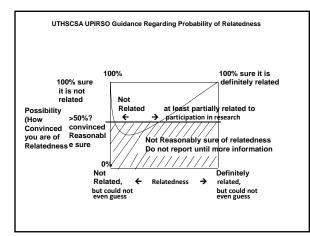












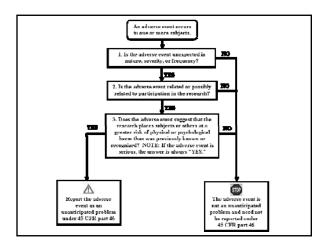


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- VA study coordinator reports that 6 babies (subjects) died of malnutrition
- Anticipated or Unanticipated? •
- Related or Unrelated?
- Serious? If not, Greater Risk? ٠ •
- Internal or External AE? •
- Report to IRB? If yes, what time frame?

#### Scenario #2 Is not a UPIRSO

- Internal Adverse Event
- Unanticipated and Serious but Unrelated
- Prompt Reporting not required.
- Follow other reporting requirements listed in protocol (e.g., sponsored studies) as well





#### Scenario #3

- Multi-center NCI study
- UTHSCSA one of 80 sites
- IRB determined greater than minimal risk DSMP
- Procedures include bone marrow transplant, chemotherapy, blood drawing, transfusions
  Risks listed in protocol documentation
- Subject dies in Detroit site from complications of the chemo, UTHSCSA PI receives IND safety report
- Anticipated or Unanticipated?
- Related or Unrelated?
- Serious? If not, Greater Risk?
- Internal or External AE?
- Report to IRB? If yes, what time frame?

#### UPIRSO

#### <u>UNANTICIPATED</u> AND <u>RELATED</u> (possibly RELATED) events/problems that represent a GREATER RISK to subjects or others

Generally will warrant consideration of substantive changes

<u>UNANTICIPATED</u> and <u>RELATED</u> (possibly <u>RELATED</u>) and <u>SERIOUS</u> adverse events should also be considered to be represent GREATER RISK.

<u>Always</u> will warrant consideration of substantive changes

## **Examples of corrective actions or** substantive changes

- Changes to eliminate apparent immediate hazards to subjects (before or after IRB approval);
- Modification of inclusion or exclusion criteria to mitigate the newly identified risks; Implementation of additional procedures for monitoring subjects; •
- Suspension of enrollment; .
- Suspension of research procedures;
- Modification of informed consent documents to include a description of newly recognized risks; Notification of previously enrolled subjects about newly recognized risks •

#### Scenario #3

- Multi-center NCI study
- UTHSCSA one of 80 sites
- IRB determined greater than minimal risk DSMP
- Procedures include bone marrow transplant, chemotherapy, • blood drawing, transfusions Risks listed in protocol documentation ٠
- Subject dies in Detroit site from complications of the chemo, UTHSCSA PI receives IND safety report
- Anticipated or Unanticipated?
- . Related or Unrelated?
- Serious? If not, Greater Risk? .
- Internal or External?
- . Report to IRB? If yes, what time frame?

#### Scenario #3 Is not a UPIRSO

- External Adverse Event
- Related, and Serious, and some argue **Unanticipated vs. Anticipated**
- If confusing
  - Substantive change required?

#### -Anticipated

- longed bone marrow suppression resulting in neutropenia and risk of life-threatening infections is a known complication of the chemotherapy regimens being tested in this clinical trial and these risks are described in the IRB-approved protocol and informed consent document.
- The investigators conclude that the subject's infection and death are directly related to the research interventions.
- A review of data on all subjects enrolled so far reveals that the incidence of severe neutropenia, infection, and death are within the expected frequency.

## **Clarify at each level**

ANTICIPATED in the consent form, Sponsor Brochure, or labeling; expected as part of subject's disease or condition

<u>Can't Determine if RELATED</u> when you are <u>Not</u> <u>Reasonably</u> sure

<u>Represents a RISK</u> but is it really a Greater Risk of harm than was previously known or recognized

#### Scenario #4

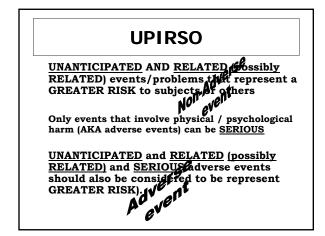
- UTHSCSA Ph II cancer trial on biologic made from human sera
- After 4 subjects enrolled audit revealed administered product was obtained from improperly screened donors (HIV,Hep-B risk)
- IRB determined it is greater than minimal risk
- Known risks: extensive
- No subject experienced any harm
- Anticipated or Unanticipated?
- Related or Unrelated?
- Serious? If not, Greater Risk?
- Internal or External AE; Is it an AE?
- Report to IRB? If yes, what time frame?

#### UPIRSO

#### <u>UNANTICIPATED</u> AND <u>RELATED</u> (possibly RELATED) events/problems that represent a GREATER RISK to subjects or others

Only events that involve physical / psychological harm (AKA adverse events) can be  $\underline{SERIOUS}$ 

<u>UNANTICIPATED</u> and <u>RELATED</u> (possibly <u>RELATED</u>) and <u>SERIOUS</u> adverse events should also be considered to be represent GREATER RISK).



#### Scenario #4

- UTHSCSA Ph II cancer trial on biologic made from human sera
- After 4 subjects enrolled audit revealed administered product was obtained from improperly screened donors (HIV,Hep-B risk)
- IRB determined it is greater than minimal risk
- Known risks: extensive
- No subject experienced any harm
- Anticipated or Unanticipated?
- Related or Unrelated?
- Serious? If not, Greater Risk?
- Internal or External AE; Is it an AE?
- Report to IRB? If yes, what time frame?

#### Scenario #4 Is a UPIRSO

- <u>Unanticipated</u> and <u>Related</u>, although would not call it an *Adverse Event* and therefore "Seriousness" would not be determined as *no harm* occurred (physical or psychological harm).
- <u>Greater risk</u>
- Report to IRB promptly

# How Promptly?

- Report all internal (<u>local</u>), unanticipated, related, life threatening or fatal events within 48 hours (Submit only "Fatal toxicities" for NCI studies)
- Report all others within
  - 7 working days if based on internal information (e.g., internal AE) or
  - 14 working days for all others

# **How Promptly?**

- Internal Adverse Events
  - Adverse Events experienced by subjects enrolled by investigators approved by the UTHSCSA IRB to perform research at their respective institutions.
- External Adverse Events
  - Adverse Events experienced by subjects enrolled by investigators approved by IRB's other than UTHSCSA

# What about Deviations?

- <u>Protocol Violations come in two flavors:</u>
- <u>Exceptions</u> are sought prior to implementation (Yes it deviates from the protocol but it is approved to do so by the IRB beforehand.)
  - Exceptions are not part of the UPIRSO process and are requested using an amendment form
  - For example a request for an exception to the inclusion criteria for a single potential subject
- <u>Deviations</u> are reported after they occur – Deviations are a measure of compliance
  - Deviations may also represent a UPIRSO

#### How?

> Possible UPIRSO: AE or Non-AE UPIRSO Report

- The report used for Prompt Reporting: Any incident, experience, outcome, Adverse Event or IND Safety Report, safety summary that constitutes a UPIRSO
- > Non-Prompt Reporting
  - To report Any incident, experience, outcome, Adverse Event or IND Safety Report, safety summary that does not meet criteria for prompt reporting; Report in Progress Report.
- UTHSCSA Event Tracking Log Optional
  - Assists you in summarizing on your next progress report: all nonprompt, non-UPIRSO and UPIRSO in relation to your entire study
- > Forms can be found on our website http://research.uthscsa.edu/irb

# How will reports be processed?

➢Any Unanticipated Problem, or Adverse Event submitted is considered a possible UPIRSO and will be reviewed by an IRB Chair or designated reviewer.

# **Discovery process**

#### ➢ If Promptly Reported:

- Possible UPIRSO Report will be reviewed by expedited or full IRB review as appropriate.
- <u>PI must act on requirements</u> of involved institutions and <u>requests</u> for more information to resolve the issue.
- <u>PI must submit follow-up</u> reports/report of <u>resolution</u>.

# Determined to be a UPIRSO

#### >OIRB must report, PI must act:

- >ASAP report to involved institutions
- ><u>Institutions will distribute</u> internally
- PI must gather requirements and <u>act</u>
- PI must submit a follow-up report
  - "Is the action plan <u>fully</u> initiated and can we call the issue <u>resolved</u>"

# **UPIRSO** Resolution

> IRB may act/IRB must report to OHRP:

- Failing to meet <u>deadlines</u> for f/u reports may be considered noncompliance
- IRB <u>can suspend enrollment</u>, suspend procedures or terminate a study
- Suspensions, terminations and serious or continuing noncompliance are <u>reported to OHRP</u>
- ➢ Final report to OHRP (± FDA)

# How will reports be processed?

>If Prompt Reporting is not required:

- <u>The report will be returned to the PI with</u> instructions to summarize in their next progress report
- >If sponsor <u>required</u> prompt reporting send them a copy of UTHSCSA policy letter.

#### Scenario #5

- UTHSCSA study of HIV patients
- Procedures include interviews, (e.g., illicit drugs)
- Known risk of loss of confidentiality but data is in password protected computer without encryption
- Event = computer with data is stolen
- Anticipated or Unanticipated?
- **Related or Unrelated?** ٠
- Serious? If not, Greater Risk? • Internal or External AE; Is it an AE?
- Report to IRB? If yes, what time frame?

#### AE vs. Non-AE

- OHRP recognizes only a small subset of adverse events ٠ occurring in human subjects participating in research will meet these three criteria for an unanticipated problem.
- Furthermore, there are other types of incidents, experiences, and outcomes that occur during the conduct of human subjects research that represent unanticipated problems but are not considered adverse events.
  - Examples: social or economic harm instead of the physical or psychological harm; increased risk of harm, but no harm occurs

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- Anticipated or Unanticipated?
- Related or Unrelated?
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- Report to IRB? If yes, what time frame?

#### Scenario #5 Is a UPIRSO

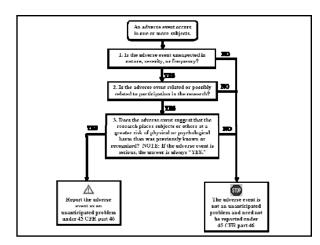
- Local issue
- Unanticipated and Related and represents
- greater risk due to confidentiality of data
- Changes required?
  - Amend protocol to add improved security of data
  - Letter sent to those whose data was compromised.
- Submit UPIRSO report to IRB within 7 days

# What if a change is needed?

- >If an amendment is required:
- Submit ASAP.
- May qualify for expedite approval. - If minor change
- Substantive change
  - Amendment associated with UPIRSO will go to full IRB
  - PI must include thorough description of event and any immediate actions taken.

# What about accompanying documentation?

- ≻Yes, with UPIRSO reports
- >No, (e.g., IND Safety Reports) with progress reports





# **Examples of corrective actions or** substantive changes

- ٠
- Changes to eliminate apparent immediate hazards to subjects (before or after IRB approval); Modification of inclusion or exclusion criteria to mitigate the newly identified risks; •
- Implementation of additional procedures for monitoring subjects; ٠ •
- Suspension of enrollment; •
- Suspension of research procedures; •
- Modification of informed consent documents to include a
- description of newly recognized risks; Notification of previously enrolled subjects about newly recognized risks

#### FDA

- Studies that require prior submission to the FDA require additional reporting to the IRB, the sponsor and the FDA
  - <u>Unexpected drug experience</u> (UDE)
  - <u>Unexpected Adverse Device Experience</u> (UADE)

#### UDE and UADE

• Unanticipated - only includes protocol documentation

• This is not necessarily a problem if you simply identify that you need to report to the sponsor the unexpected adverse drug experience and not report to the IRB since it is not a UPIRSO as it is not unanticipated by the condition of the subject (not outside frequency expected for their condition or predisposing risk factors).

#### UNANTICIPATED ADVERSE DEVICE EFFECT (UADE)

• Defined by the FDA as any:

- serious adverse effect on health or safety; or
  any life-threatening problem; or
- death
- caused by, or associated with, a device, if that effect, problem, or death was:
  - not previously identified in nature, severity, or degree of incidence in the investigational plan or application (including a supplementary plan or application), or

 any other unanticipated serious problem associated with a device that relates to the rights, safety, or welfare of subjects.

•

#### UADE

• For device studies, investigators are required to submit a report of a UADE to the sponsor and the reviewing IRB (§ 812.150(a)(I))

- as soon as possible,

- but in no event later than <u>10 working days</u> after the investigator first learns of the event.
- Sponsors must immediately conduct an <u>evaluation of a</u> <u>UADE</u>, and must <u>report</u> the results of the evaluation within <u>10</u> working days (812.46(b), 812.150(b)(I)) to:
- All <u>IRBs</u>

٠

All <u>investigators</u>
FDA

#### UADE

• So for devices you may find yourselves forwarding UADE's to the IRB but not as a UPIRSO and then later after investigation by the sponsor forwarding the results of the sponsors investigation as a UPIRSO if they discover that it is not as you suspected caused by the underlying condition but actually an effect of the device not previously known

# **QUESTIONS?**

Roy R. Estrada, PhD, PA-C, CIP Associate Director, IRB UTHSCSA (210) 567-3083 Fax (210) 567-2360 estradar3@uthscsa.edu