

# FDA's Good Clinical Practice Compliance Review for NDAs and BLAs

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CDER | US FDA

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# Learning Objectives

- Provide an overview of FDA's Bioresearch Monitoring (BIMO) Program
- Discuss the Good Clinical Practice (GCP) inspection and review process
- Provide a case example and lessons learned from a clinical investigator (CI) inspection with data reliability findings

# FDA's Bioresearch Monitoring (BIMO) Program



*Comprehensive program of on-site inspections and data audits designed to monitor all aspects of the conduct and reporting of FDA-regulated research*

## Objectives:

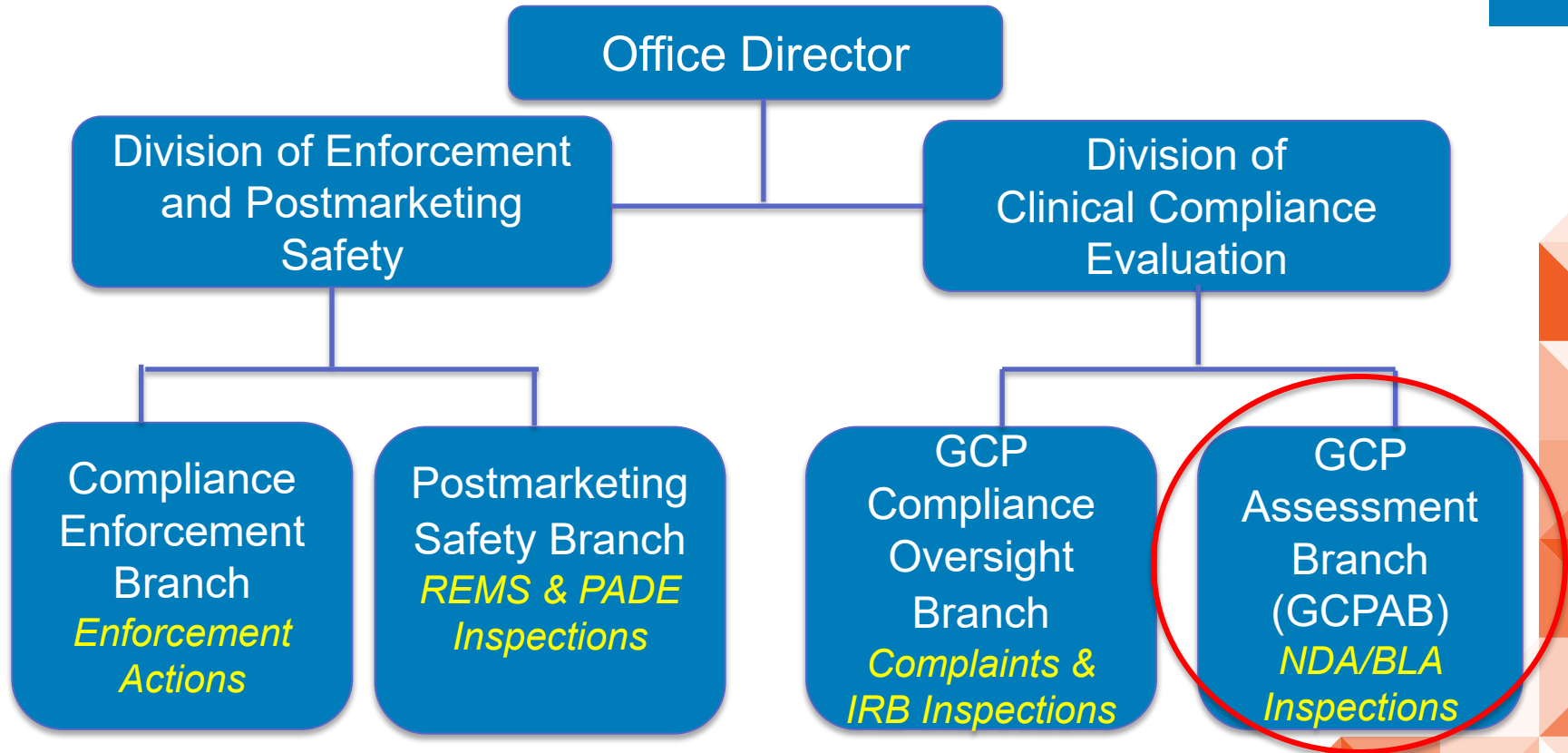
- To ensure that the rights and welfare of human research participants are protected
- To verify the quality and integrity of research data
- To ensure that FDA-regulated research is conducted in compliance with applicable regulations

# BIMO Program

Over 1500 domestic and foreign inspections conducted annually involving different compliance programs including

- Clinical Investigators/Sponsors/CROs (GCP)
- Nonclinical Laboratories - Good Laboratory Practice (GLP)
- In Vivo Bioavailability-Bioequivalence Studies
- Institutional Review Boards
- Postmarketing Adverse Drug Experience (PADE)
- Risk Evaluation and Mitigation Strategies (REMS)

# Office of Scientific Investigations



# Good Clinical Practice (GCP) Inspections

# Good Clinical Practice (GCP)

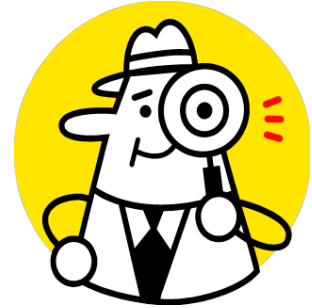


A standard for the planning, initiating, performing, recording, oversight, evaluation, analysis and reporting of clinical trials that provides assurance that the *data and reported results are reliable* and that the *rights, safety and well-being of trial participants are protected*



# GCP Inspections

- Clinical Investigators
- Sponsors
- Sponsor-Investigators
- Contract Research Organizations (CROs)

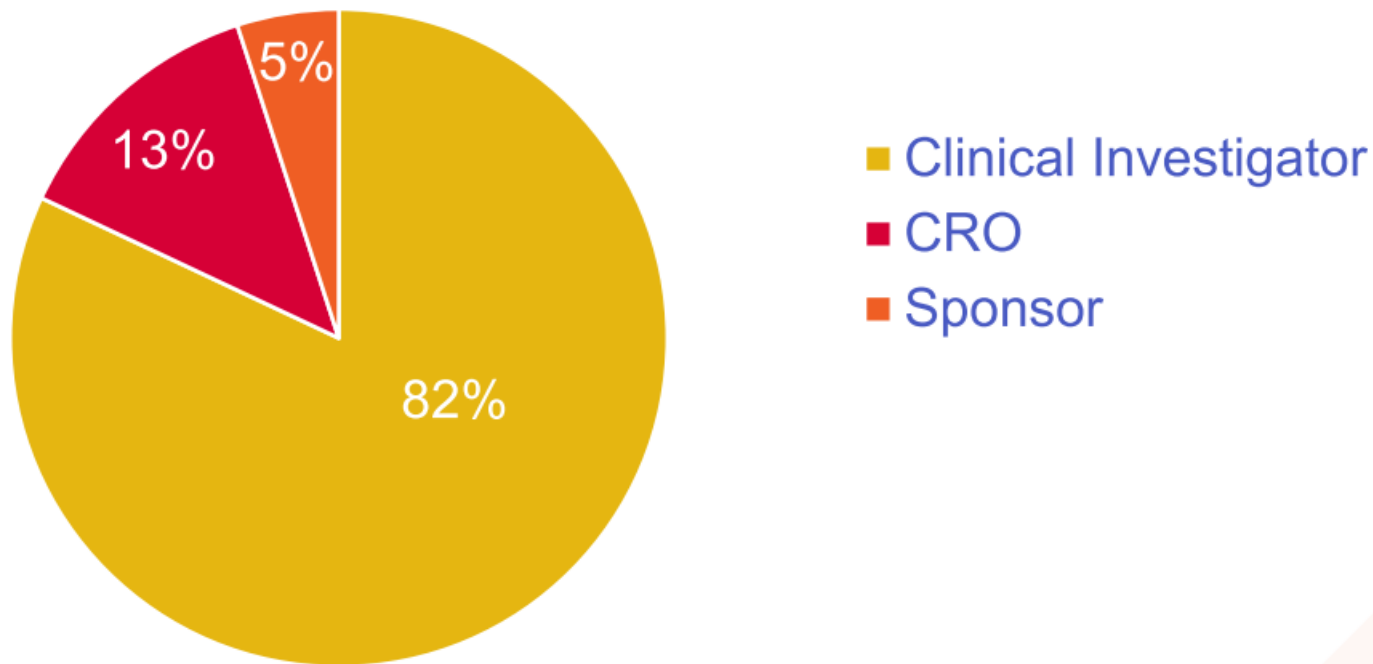




# OSI/GCPAB Inspections



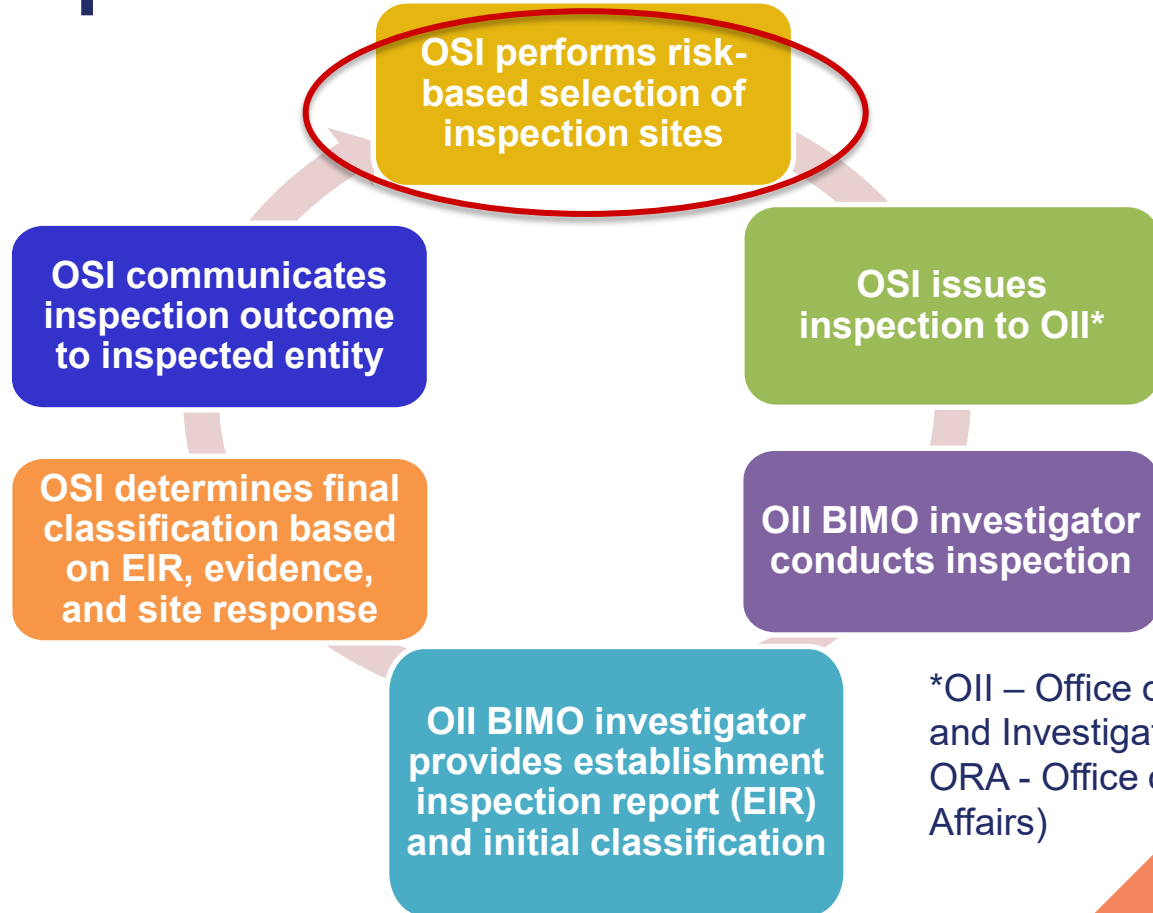
FY 2023 ~420 foreign and domestic GCP inspections



# CI Inspections

- GCP inspections are not required as part of the application review process
- CI inspections usually requested
  - New molecular entities (NMEs)
  - Efficacy supplements if new dosing/population/indication
  - Other considerations: major protocol deviations, SAEs, unblinding

# GCP Inspection Process



\*OII – Office of Inspections and Investigations (formerly ORA - Office of Regulatory Affairs)

# Choosing CI Sites for Inspection

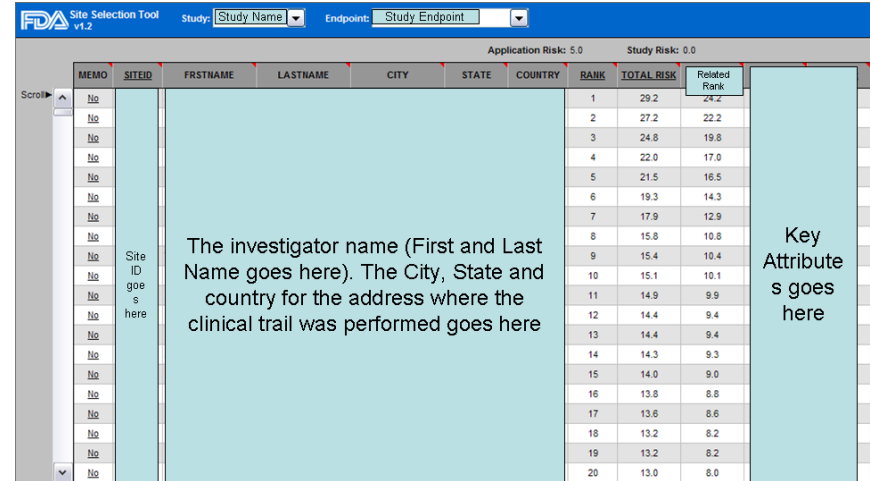


- OSI works with review divisions and statisticians
- Clinical Investigator Site Selection Tool (CISST) assists the site selection process
- CISST generated from data submitted by sponsors and OSI internal metrics

# CISST

Calculates total risk of each CI site based on

- Enrollment
- Efficacy outcome
- Complaints
- # SAEs
- # Protocol deviations
- Time since last inspection



Application Risk: 5.0 Study Risk: 0.0

MEMO	SITEID	FRSTNAME	LASTNAME	CITY	STATE	COUNTRY	RANK	TOTAL RISK	Related Rank
No							1	29.2	24.2
No							2	27.2	22.2
No							3	24.8	19.8
No							4	22.0	17.0
No							5	21.5	16.5
No							6	19.3	14.3
No							7	17.9	12.9
No							8	15.8	10.8
No							9	15.4	10.4
No							10	15.1	10.1
No							11	14.9	9.9
No							12	14.4	9.4
No							13	14.4	9.4
No							14	14.3	9.3
No							15	14.0	9.0
No							16	13.8	8.8
No							17	13.6	8.6
No							18	13.2	8.2
No							19	13.2	8.2
No							20	13.0	8.0

Site ID goes here

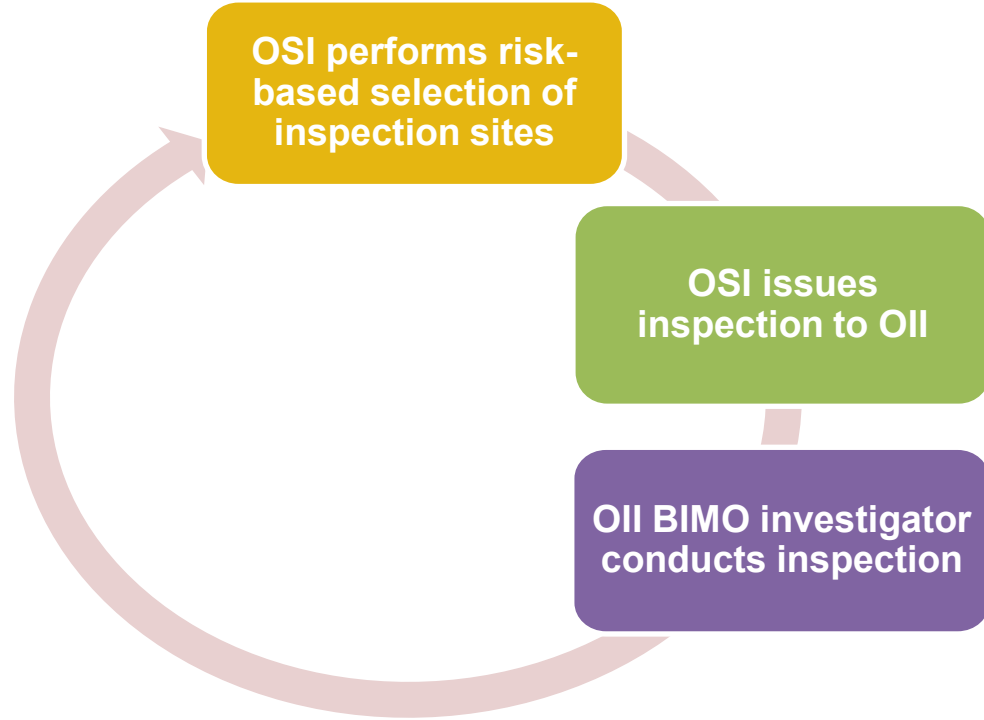
The investigator name (First and Last Name goes here). The City, State and country for the address where the clinical trial was performed goes here

Key Attributes goes here

# CI Site Selection

- Other considerations for site selection not captured in CISST
  - Significance of PDs
  - Individual site impact on efficacy variables
  - GCP issues raised by sponsor (e.g. sensitivity analyses, site termination)
  - Reports of unblinding not captured as PDs

# GCP Inspection Process



# CI Inspections

- On average, 2-3 clinical sites per protocol chosen for inspection
- Clinical trial conduct
  - Study conducted according to protocol
  - Study conduct comply with federal regulations
- Data Verification
  - Primary/secondary efficacy data
  - Adverse events
  - Protocol deviations



# CI Inspections

- OSI is in communication with OII before, during, and after the inspection
  - Ongoing or completed inspections may inform pending inspections
- OSI may participate in inspection as subject matter expert (SME)

# GCP Compliance Review

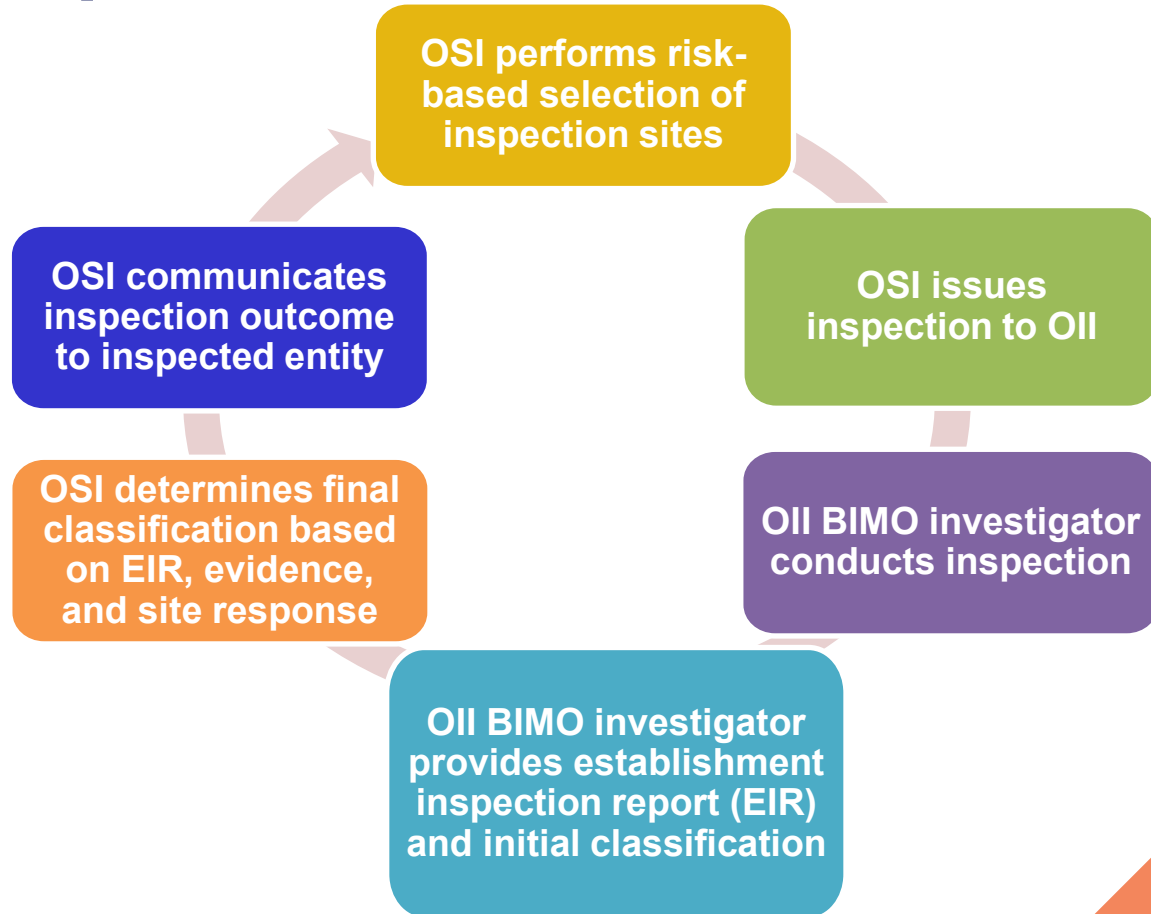
## Role of OSI

# OSI Collaboration with Review Divisions



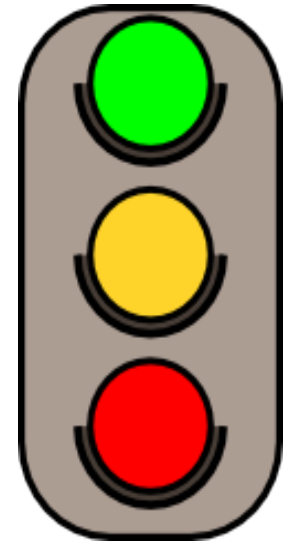
- OSI actively participates in NDA/BLA milestone meetings
- OSI communicates potentially significant inspection findings to review division *in real time*
  - Unblinding, under-reporting of significant AEs/SAEs, etc.
  - Follow up on data anomalies identified by review division
  - Depending on inspection findings
    - Additional CI sites may be inspected
    - Add sponsor and/or CRO inspection
    - Generate information requests to sponsor

# GCP Inspection Process



# Inspection Compliance Classifications

- No Action Indicated (NAI)
  - No objectionable conditions or practices
- Voluntary Action Indicated (VAI)
  - Objectionable conditions or practices
  - Not at threshold to take or recommend administrative or regulatory action
- Official Action Indicated (OAI)
  - Serious objectionable conditions found
  - Regulatory action recommended



# Case Example

# Case Example

- Randomized, double-blind, Phase 3 study
- Primary endpoint - change in a rating scale administered by an examining MD
  - 10 different domains assessed, each scored 0-6 based on severity
- Examining MD entered electronic clinical outcome assessment (eCOA) ratings into an eDevice during assessment

# Case Example

- Per protocol, eCOA ratings were to be performed prior to the 3-hour investigational product (IP) IV infusion
- In case of eDevice malfunction, a paper backup process was in place



# Case Example



Examining MD assessment &  
data entry into eDevice

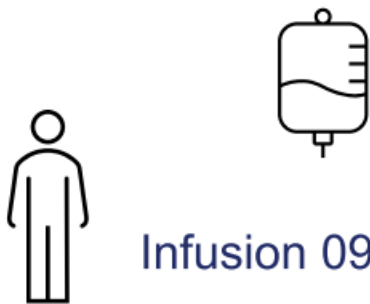
Investigational  
product  
administration  
over 3 hours

# Case Example



IP administration over 3 hours

Data entry into eDevice



Infusion 0930-1230



eCOA "start" time stamp 1245



Infusion 0940-1240



eCOA "start" time stamp 1252

# Case Example

- eCOA data entered after rather than prior to the 3-hour IP infusion
  - When was assessment performed?
  - Examining MD stated that assessment completed prior to infusion, no documentation
- No eDevice malfunction
- No paper source

# Case Example

- CI stated data entered based on examining MD recall
  - eCOA involved 10 different domains assessed, each scored 0-6 based on severity
  - Ability to recall all ratings, for two or more subjects, to record in eDevice 3 hours or longer after assessment completed?

# Case Example

- For some subjects, examining MD entered data into eDevice using different MD's username and login credentials
  - Importance of attribution
  - Examining MD was to be blinded with no access to subject data (e.g. AEs, labs)

# Case Example

- CI inspection classified as VAI
- Impact on data reliability
  - OSI recommended sensitivity analysis
- CI and Sponsor responsibilities
  - Contemporaneous data entry
  - Not sharing login credentials

# Challenge Questions

# Challenge Question

When choosing CI sites for inspection, which of the following are NOT usually considered

- A. Enrollment
- B. Number of sub-investigators
- C. Protocol deviations
- D. Impact on efficacy variables



# Challenge Question

Which FDA office conducts GCP inspections?

- A. OND (Office of New Drugs)
- B. OSE (Office of Surveillance and Epidemiology)
- C. OII (Office of Inspections and Investigations)
- D. OSI (Office of Scientific Investigations)

# Summary

- The goal of GCP inspections is to provide assurance that the data are reliable and that the rights of trial participants are protected
- For NDA/BLA submissions, OSI collaborates with review divisions to choose sites for CI inspections
- OSI communicates inspection findings to the review division throughout the NDA/BLA review cycle and provides recommendations regarding data integrity

