

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

**Cara Alfaro, PharmD**

Senior Pharmacologist

Good Clinical Practice Assessment Branch (GCPAB)  
Office of Scientific Investigations (OSI)  
CDER | US FDA

Clinical Investigator Training Course – December 12, 2024

# 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

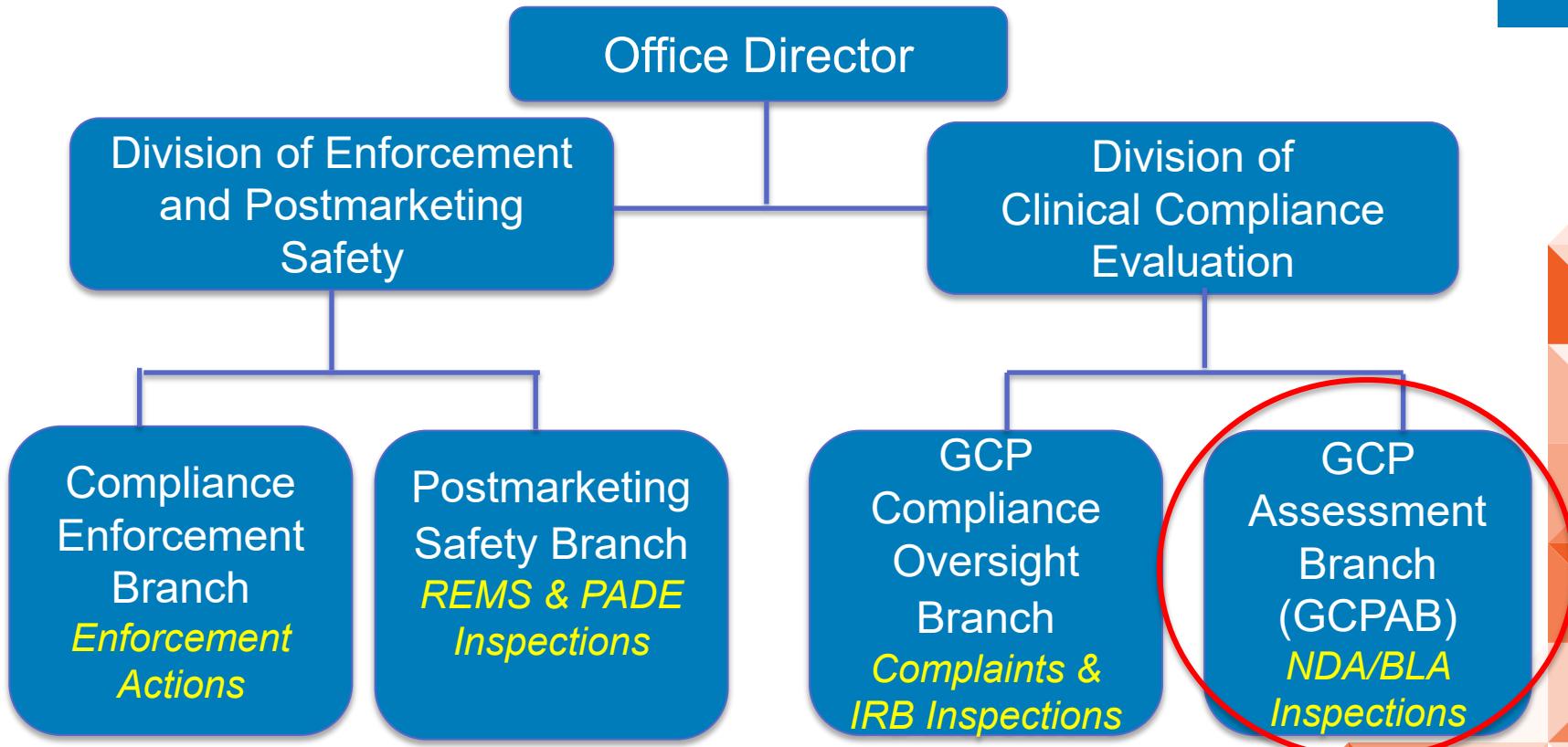
# BIMO Program



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)



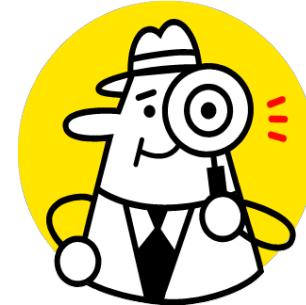
A standard for the planning, initiating, performing, recording, oversight, evaluation, analysis and reporting of clinical trials that provides assurance that the *data and reported results are reliable* and that the *rights, safety and well-being of trial participants are protected*



# GCP Inspections

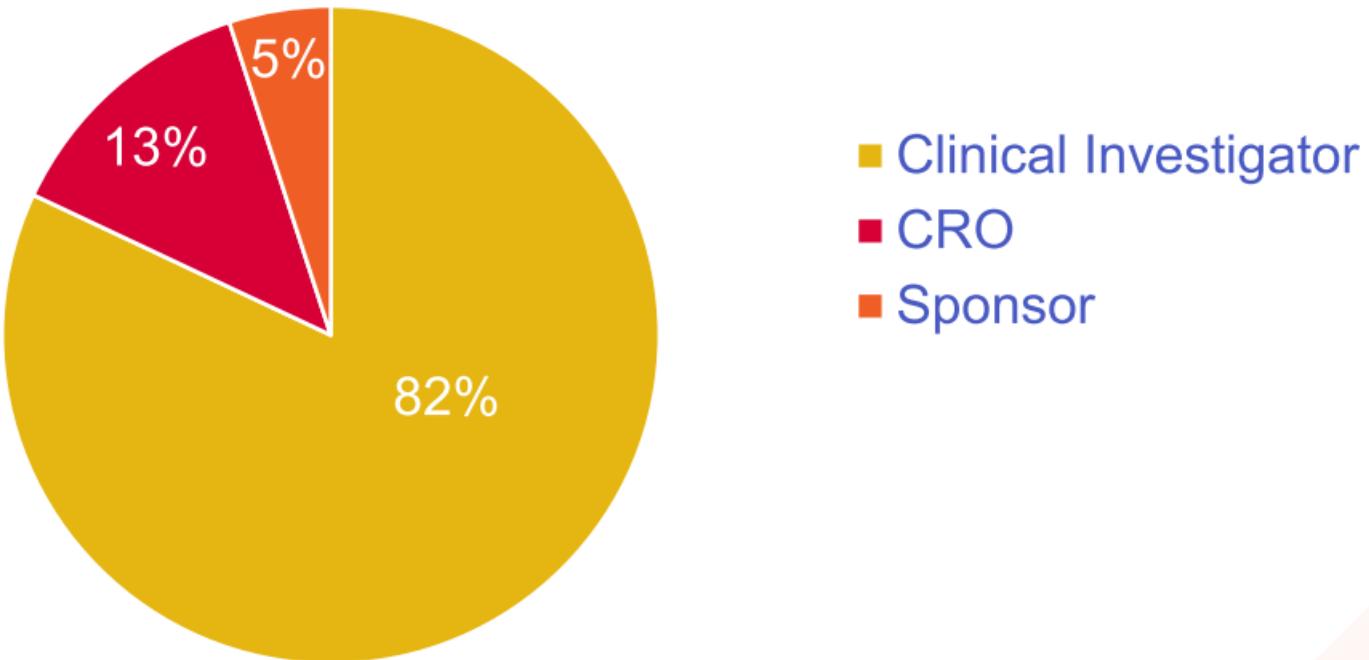


- Clinical Investigators
- Sponsors
- Sponsor-Investigators
- Contract Research Organizations (CROs)



# OSI/GCPAB Inspections

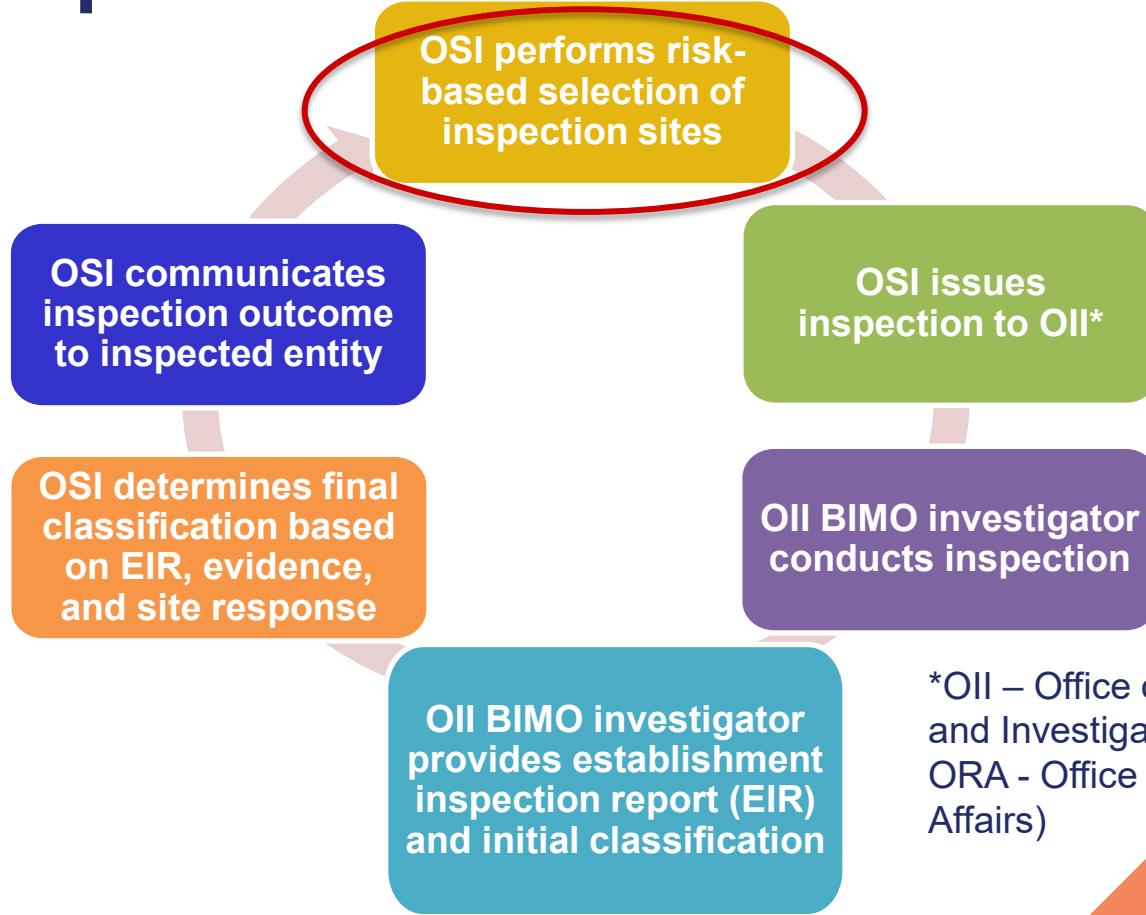
FY 2023 ~420 foreign and domestic GCP inspections



# 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

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

# 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

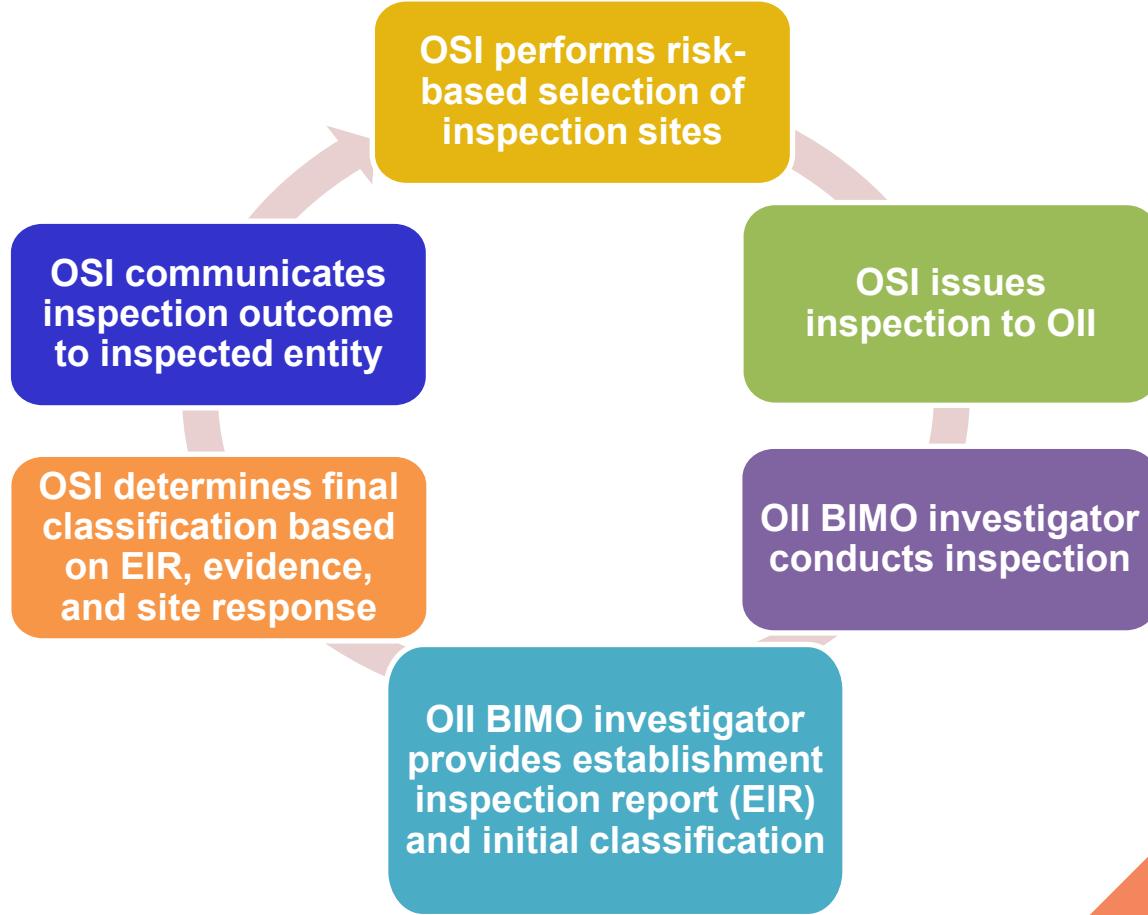
## Role of OSI

# 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

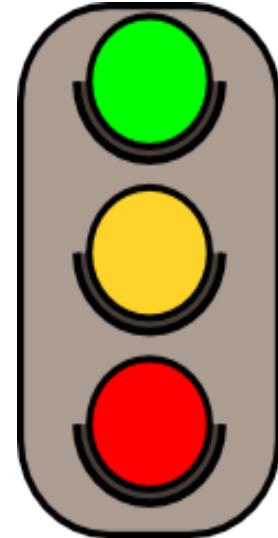
# GCP Inspection Process



# 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



Infusion 0930-1230



Data entry into eDevice



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

