## **Session 3 (BE): Clinical Study Conduct**

Joint US-FDA | MHRA-UK | Health Canada Good Clinical Practice & Pharmacovigilance Symposium February 15, 2024 – 11:00 – 11:40 AM

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# **Clinical Trial Study Conduct**

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A Joint US-FDA | MHRA-UK | Health Canada Good Clinical Practice & Pharmacovigilance Compliance Workshop February 13, 2024





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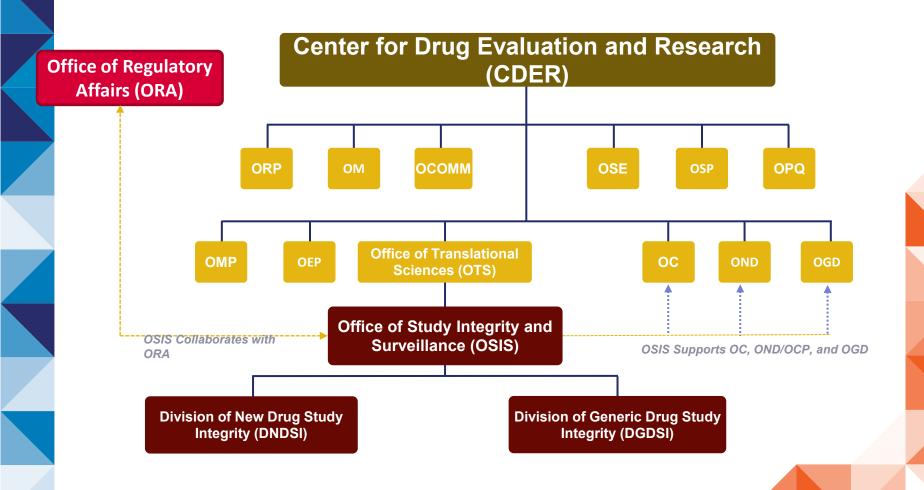
Medicines & Healthcare products Regulatory Agency

## Disclaimer

The contents of this presentation are my own and do not necessarily reflect the views and/or policies of the Food and Drug Administration or its staff.

# **Learning Objectives**

- Understand the FDA Bioresearch Monitoring (BIMO) Program
- Understand the source documentation requirements to determine subject eligibility and concerning trends
- Understand the content requirements of informed consent forms (ICF) and concerning trends



# OSIS: Select, Inspect, Report, and Support

Inspect sites to ensure quality and integrity of studies

Select sites for inspection through surveillance evaluation and site assessment

Inspect Report Support CDER's & FDA's missions Select Support

Report on inspections by writing Establishment Inspection Reports and EIR Reviews

Support CDER with data reliability recommendations and compliance evaluations

# FDA Bioresearch Monitoring (BIMO) Compliance Programs

- Provide instructions to FDA personnel for conducting compliance activities such as on-site inspections and data audits
- Compliance activities are used to:
  - Protect the rights, safety, and welfare of human research subjects
  - Verify the accuracy, reliability, and integrity of clinical and nonclinical trial submitted to FDA

Program #	Compliance Program Title	
7348.003	In Vivo Bioavailability-Bioequivalence Studies - Clinical	
7348.004	In Vivo Bioavailability-Bioequivalence Studies - Analytical	
7348.007	Inspection of Nonclinical Laboratories Conducting Animal Rule-Specific Studies	
7348.808	Good Laboratory Practice (Nonclinical Laboratories)	
7348.808A	Good Laboratory Practice Program (Nonclinical Laboratories) EPA Data Audit Inspections	
7348.809	Institutional Review Board	
7348.809A	Radioactive Drug Research Committee	
7348.810	Sponsors and Contract Research Organizations	
7348.811	Clinical Investigators and Sponsor-Investigators	
7353.001	Postmarketing Adverse Drug Experience (PADE) Reporting Inspections	
7353.001C	Risk Evaluation and Mitigation Strategies (REMS) Reporting Inspections	

# BIMO Compliance Program 7348.003

#### In Vivo Bioavailability-Bioequivalence Studies - Clinical

CHAPTER 48 - BIORESEARCH MONITORING

SUBJECT:	IMPLEMENTATION DATE:		
Procedures for FDA Staff: In Vivo Bioa Studies (Clinical)	05/01/2018		
	DATA REPORTING		
PRODUCT CODES	PRODUCT/	PRODUCT/ASSIGNMENT CODES	
Product coding not required for biopharmaceutical establishments	48003N CLINICAL I BLAS) 48003P CLINICAL I 48003Q CLINICAL I BA/BE	48003P CLINICAL PEPFAR ANDA BA/BE 48003Q CLINICAL IN-VIVO PEPFAR NDA	

#### PART III - INSPECTIONAL

- 1. Organization
- 2. Study Administration and Responsibility
- 3. Subjects' Records and Documentation
  - A. Study Source Records
  - B. Informed Consents
  - C. Other Study Records
- 4. Test Article Accountability and Disposition
- 5. Collection, Processing, and Storage of Study Samples Subject to Bioanalysis
- 6. Randomization
- 7. Blinding Codes
- 8. Reserve Samples
- 9. Review of Electronic Data
- 10. International Inspections of Clinical BA/BE Study Sites
- 11. Reporting

# **BIMO Compliance Program 7348.003**

#### 3. Subject's Records and Documentation

#### A. Study Source Records

- Determine whether the study subjects met the eligibility criteria (inclusion/exclusion criteria)
- Compare the study source data at the clinical site with the background materials provided by the Center. If discrepancies are found, document them and review the case report forms for accuracy
- Determine whether adverse events (AEs) and the serious adverse events (SAEs) were accurately and adequately documented in the source records
- Describe the study source data files in terms of their organization, condition, accessibility, and completeness. For example, is the information on study source records attributable, legible, contemporaneous, original, and accurate (ALCOA)
- Determine whether there is adequate documentation that all study subjects were alive and actively participated during the study

# Concerning Trends regarding Documentation and Subject Eligibility

- Concerning trend 1:
  - Lack of documentation to demonstrate subject eligibility
    - Example: For a clinical study, the source records for subject 12 showed that the subject met the inclusion criteria for prior use of a drug before enrollment as required by the protocol. However, there were no records indicating whether the subject had achieved a certain dose for a 2-week period prior to enrollment.

# Concerning Trends regarding Documentation and Subject Eligibility

- Concerning trend 2:
  - Conflicting documentation that questions subject eligibility
    - Example: For a clinical study, subject 12 was required to have a grade of 3 Investigator Global Assessment of Acne (IGA) prior to enrollment per the study protocol. Source medical records indicate a grade of 3 on 06/21/18. However, source records from 07/01/18 indicate a grade of 1.

# Concerning Trends regarding Documentation and Subject Eligibility

- Concerning trend 3:
  - Documentation is unreadable or lacks attribution to specific subject
    - Example: For a clinical study, the inspection uncovered a large collection of source medical records used to demonstrate subject eligibility at the clinical site. However, none of the records contained subject or patient identification where you can match records to enrolled subjects.

# BIMO Compliance Program 7348.003

#### **B. Informed Consent**

- O Did the subject's legal-authorized representative sign the informed consent document prior to entry into the study (e.g., prior to performance of any study related tests, and administration of the test article)? If the subject did not sign the informed consent document, determine who signed it and that person's relationship to the subject.
- Determine whether the consent document(s) complies with the elements of 21 CFR 50.25, 21 CFR 50.56, and ICH E6, and document any discrepancies or concerns.

## Part 50: Protection of Human Subjects

50.25 Elements of informed consent:

- a) Basic elements of informed consent
  - 1) Statement that the study involves research, an explanation of the purposes of the research and the expected duration of the subject's participation, a description of the procedures to be followed, and identification of any procedures which are experimental.

# **Concerning Trends of Informed Consents**

- Concerning trend 1:
  - ICF contains language that seems to imply that the clinical study is not experimental:
    - <u>Example</u>: For a specific clinical study, the informed consent form used to enroll subjects included the following statement:

"This study is a clinical research project, but no part of it is of an experimental nature..."

# **Concerning Trends of Informed Consents**

- Concerning trend 2:
  - ICF contains language that seems to downplay risks associated with clinical study:
    - <u>Example</u>: For a specific clinical study, the informed consent form used to enroll subjects included the following statement:

"The [insert drug name] has been on the market for quite some years and all aspects of its usage are well studied, there are no unforeseeable risks associated with it."

# Questions?

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# MHRA Bioequivalence Inspections - Clinical

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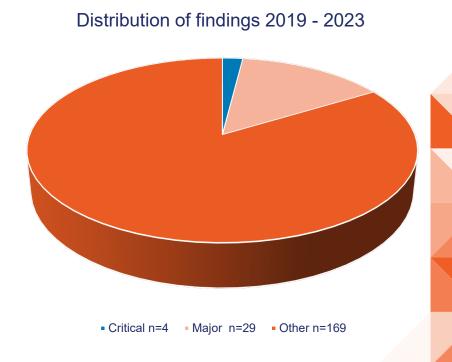
## MHRA bioequivalence (BE) inspections

24 inspections performed since 2019

Remote (office-based) inspections between October 2020 and June 2022

Combination of inspections approaches since June 2022:

- Remote
- On-Site
- Hybrid



#### Critical Findings (n=4) Major Findings (n=29)

Subject eligibility\*\*

Clinical sample analysis\*\*

Method validation\*\*

Data integrity\*\*

\*\*Ineligible subjects recruited into studies

\*\*Related to clinical sample analysis

CRF/source data (n=3)

Subject eligibility (n=2)

IMP management (n=2)

Quality assurance

Subject safety

Facilities and equipment

Archiving

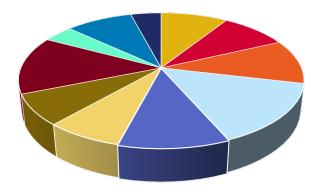
Medical oversight

Method validation (n=4)
Data integrity controls (n=4)
Clinical sample analysis
(n=5)

Quality systems
Competent Authority
Reporting
Data management

## Other findings (n=169)

Distribution of other findings 2019 - 2023



- Facilities and Equiment (n=11)
- CRF/Source Data (n=13)
- Quality Assurance (n=13)
- IMP Management (n=9)
- Contracts (n=5)
- Protocol Compliance (n=5)

- Quality Systems (n=11)
- TMF (n=18)
- Medical Writing (n=9)
- Clinical Sample Analysis (n-17)
- Data Integrity Controls (n=11)

#### Also....

- Subject safety
- Medical oversight
- Computerised systems
- Competent Authority
- Project management
- Written informed consent
- Insurance
- Training
- Management of medical emergencies •
- Research Ethics Committee
- Staff delegation and responsibilities

- Computer systems validation
- Subject confidentiality
- Statistics
- Monitoring
- Sample management
- Method validation
- Reporting
  - Subject eligibility
- Protocol compliance

## MHRA common findings

- Clinical pathology laboratories
- IMP management
- Computerised systems:
  - Electronic case report forms (eCRF)
  - Volunteer databases

- Facilities and equipment
- Electronic archiving
- Insurance
- Transparency

## Clinical pathology laboratories (1)



Vendor assessment

Multiple laboratories in one study with different reference ranges

Discrepancies between in house and laboratory reference ranges

Sufficient stability for laboratory testing?

## Clinical pathology laboratories (2)

#### Clinical significance:

- Missed assessments still common
- Assessments done but not permitted by the protocol

Additional testing in the laboratory not required as per protocol

Eligibility issues



## **IMP** management

Certificates of analysis

- Expiry dates
- Out of specification results
- Missing data
- Provisional data

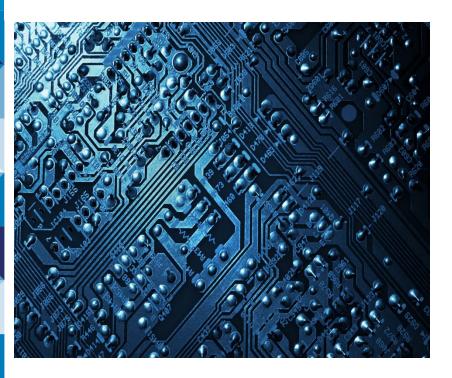
IMP verification checks

**Data loggers** 

Novel product formulations



## Computerised systems (1)



# Electronic case report forms (eCRF)

Insufficient audit trails

- No functionality
- Limited functionality

No capacity for study specific builds

Barcoding

System development in 'live' environment

## **Computerised systems (2)**



#### Volunteer databases

#### Data migrations

- Incomplete
- Poor documentation

#### **Biometrics**

- Incorrect identification
- Lack of specificity

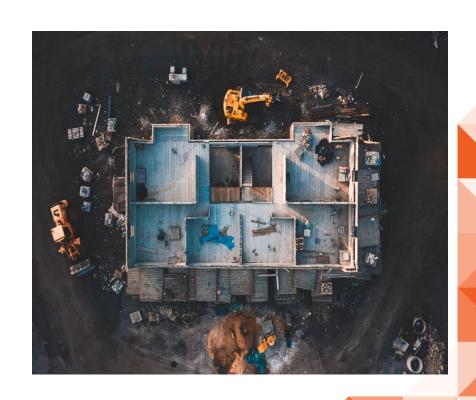
### **Facilities and equipment**

Washrooms

Alarm points

Equipment maintenance and calibration:

- ECGs
- Testing kits
- Automated interfaces with eCRF/volunteer database



## **Electronic archiving**



#### Metadata not archived

- Digital ECGs
- Volunteer databases
- Digital X rays
- eCRF
- Electronic clinical pathology laboratory reports

#### Insurance

Lapses in cover

#### **Exclusions**:

- Specific populations
- Specific regions
- Specific medicines
- Specific studies



## **Transparency (1)**

Could apply to any study documentation and/or activity.

#### Ask yourselves:

- I know what I mean but is that what it says?
- Do any assumptions need to be made regarding what has been written?
- Could this be misinterpreted?



## **Transparency (2)**



#### Example 1:



Not all QA process audits had been included on QA statements in study reports and there were no qualifying statements to indicate that additional audits had been performed.



Objective reviewer would not be aware that additional audit activity had been conducted which may help support/further support study conduct

### Transparency (3)



Example 2:



Paper records indicated that study procedures were 'ND' indicating 'not done' with extra associated coding 'X' which related to 'subject non-compliance'.



This suggested that subjects had been non-compliant when, in practice, a study procedure had not been performed by staff.

## **Transparency (4)**



Example 3:



The final participant had been excluded from the study for 'other' reasons



Sufficient study data available for a statistically powered dataset without including the final participant

## **Transparency (5)**



Example 4:



Two subjects were shown as 'not dosed' in IMP data but dosing data and subsequent clinical data was available in CRFs for both.



Too long had passed between dispensing and dosing on a specific date (protocol restriction) and subjects were dosed on a later date.

#### Reminder...

#### Ask yourselves:

- I know what I mean but is that what it says?
- Do any assumptions need to be made regarding what has been written?
- Could this be misinterpreted?

