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## FDA Conduct of Clinical Investigators Inspections

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- The content of this presentation is my own and does not necessarily reflect the views and/or policies of the Food and Drug Administration or its staff. The Food and Drug Administration will not be bound by any of the content or information contained in this presentation.

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## Outline

- FDA's Bioresearch Monitoring Program, what is it?
- Historical Perspective of Clinical Trails
- Clinical Investigator Program / Responsibilities
- How FDA Prepares for Clinical Investigator Inspection
- What to expect during and after an FDA inspection.
- Top 10 Bioresearch Monitoring Observations Used in Turbo EIR and as seen during recent FDA Inspections at Clinical Sites.

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### Historical Perspective of FDA'S Bioresearch Monitoring (BIMO) Program

- First BIMO Inspections were done in the 1960s
- The Bioresearch Monitoring (BIMO) Program was formally established in 1977
- The agency has been performing Inspections of Institutional Review Boards (IRBs) since 1980
- First International BIMO inspections were done in 1980

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### FDA's Bioresearch Monitoring (BIMO) Program

- FDA's Bioresearch Monitoring Program:
  - A comprehensive program of on-site inspections and data audits designed to monitor all aspects of the conduct and reporting of FDA regulated research.

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### FDA's Bioresearch Monitoring (BIMO) Program Objectives

1. Protect the rights, safety, and welfare of subjects in FDA-regulated trials
2. Determine the accuracy and reliability of clinical trial data submitted to FDA in support of research or marketing applications; and
3. Assess compliance with FDA's regulations governing the conduct of clinical trials, including those for informed consent and ethical review

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### FDA's Bioresearch Monitoring (BIMO) Program

- Good Clinical Practices (GCP)
  - Institutional Review Boards (IRBs)
  - Clinical Investigators (CIs)
  - Sponsor-Monitors, CROs
- Good Laboratory Practices (GLP)

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### FDA's Authority to Inspect

- Where does FDA's authority to inspect comes from ?
- What Code of Federal Regulations (CFRs) are applicable to BIMO ?

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### BIMO REGULATIONS (Code of Federal Regulations)

- 21 CFR 314: New Drug Applications (NDA)
- 21 CFR 312: Investigational New Drug Exemption (IND)
- 21 CFR 814: Pre-Market Approval Applications (PMA)
- 21 CFR 812: Investigational Device Exemption (IDE)
- 21 CFR 50: Protection of Human Subjects
- 21 CFR 56: Institutional Review Boards
- 21 CFR 58: Good Laboratory Practice for Non-Clinical Laboratory Studies

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### Clinical Investigator Program / Responsibilities

- Clinical Investigation
- What is a Clinical Investigator
- Clinical Investigator Program / Responsibilities

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### Clinical Investigation

- Any experiment in which a drug is administered to human subjects. An experiment is any use of a drug except for the use of a marketed drug in the course of medical practice. (21 CFR 312.3)

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### CLINICAL INVESTIGATOR PROGRAM

- Provides for study specific inspections and audits of physicians, veterinarians, and other investigators conducting clinical trials of new human and veterinary drugs, medical devices, biologics, etc.

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### The Clinical Investigator

- An individual who actually conducts a study (i.e. under whose immediate direction the drug is dispensed to a subject.) In the event an investigation is conducted by a team of individuals, the investigator is the responsible leader of the team  
[21 CFR 312.3]

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### Investigator Responsibilities

- General responsibilities (312.60)
- Control of investigational drug (312.61)
- Record keeping and retention (312.62)
  - An investigator is responsible for:
    - Maintaining adequate records of the disposition of the drug
    - 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
  - An investigator is required to maintain investigation records for:
    - 2 years following the data a marketing application is approved for the drug for the indication for which it is being investigated
    - 2 years after the investigation is discontinued and FDA is notified if no application is to be filed or if the application has not approved for such indication

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### Investigator Responsibilities (cont.)

- Investigator reports (312.64)
  - Progress reports
  - Safety reports
    - Promptly report any adverse event that may reasonably be regarded as caused by, or probably caused by, the drug (err on the side of reporting)
    - Immediately report any adverse event that is alarming (e.g. an unexpected event that is serious or life-threatening)
  - Final report
  - Financial disclosure

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## HOW WE AT THE FDA PREPARE FOR AN INSPECTION



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## Inspectional Assignments

- The assignment is sent to the District from the Center.
- Usually the FDA Investigator will call to pre-announce the inspection (no more than 5 days notice).
- PDUFA and MDUFMA mandate specific deadlines for agency reviews of NDAs and PMAs.

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## Inspectional Assignments (cont'ed)

- CBER/Office of Compliance and Biologics Quality/Division of Inspections and Surveillance
- CDER/Division of Scientific Investigations
  - Good Clinical Practices Branches 1 and 2
  - Human Subject Protection Team
  - GLP/Bioequivalence Branch
- CDRH/Office of Compliance/Division of Bioresearch Monitoring
- CFSAN/Office of Food Additive Safety
- CVM/Bioresearch Monitoring Team

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### GCP Inspection: Discrete Steps

- Planning and Preparation
- Conducting the Inspection
- Reporting and Documentation



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### Preparing for the GCP Inspection- Manuals

- Compliance Program Guidance Manuals
  - 7348.811 (Clinical Investigator and Sponsor-Investigator)
  - 7348.810 (Sponsor, Contract Research Organizations, and Monitors)
  - 7348.809 (Institutional Review Boards)
  - 7348.001 (In vivo Bioequivalence)
- <http://www.fda.gov/ICECI/ComplianceManuals/ComplianceProgramManual/default.htm>

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### Preparing for the GCP Inspection- Laws

- Code of Federal Regulations (CFR) Title 21
  - Part 50, Protection of Human Subjects
  - Part 56, Institutional Review Boards
  - Part 312, Investigational New Drug Application (IND)
  - Part 314, New Drug Application (NDA)
- <http://www.accessdata.fda.gov/scripts/cdrh/cfdocs/cfcr/cfrsearch.cfm>

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### Preparing for the Inspection - continued

- Investigations Operations Manual (IOM)
  - Collection and development of evidence
  - Writing the establishment inspection reports (EIR)
   
<http://www.fda.gov/ICECI/Inspections/IOM/default.htm>
- Review previous EIR(s)
  - What problems/issues were noted?
  - Was a Form FDA-483 issued?
  - Were corrections promised?
  - What was the final Classification?



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### Preparing for the Inspection - continued

- Reads and becomes familiar with the entire study protocol and amendments
  - Identifies key elements of the study protocol
- Reviews background materials
- Develops audit plan

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### Developing an Audit Plan



- Identifies specific concerns outlined in the Inspection Assignment
- Identifies specific records that will be examined to verify significant endpoint data and targeted issues
  - What will original source documents be audited against (compared to), e.g. CRFs, e-CRFs, data listings, summary reports?

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## Site Records for Review



- Case report forms (CRFs) or electronic CRFs (e-CRFs)
- Informed consent forms (ICFs)
- Original patient medical records (i.e., hospital records, nursing notes, clinic notes, etc.)
- Original laboratory reports (blood, urine, ECGs, x-rays, etc.) and consultation reports (radiology, cardiology, etc.)
- Original subjects' study diaries
- Correspondence records
- "Regulatory" file

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## HOW TO PREPARE FOR AN FDA INSPECTION



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## HOW TO PREPARE FOR AN FDA INSPECTION

When the FDA Investigator calls:

- Be sure you understand the specific study that will be inspected.
- The FDA Investigator will tell you what records will be needed.
- The FDA Investigator will tell you how much time will be needed with the PI and/or other study staff.

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### HOW TO PREPARE FOR AN FDA INSPECTION

- Be sure the PI will be available.
- Reserve a place for the FDA Investigator to work.
- Get the name and phone number of the FDA Investigator.
- Provide specific and clear directions to your site.

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### HOW TO PREPARE FOR AN FDA INSPECTION

- Have ALL records related to the study available, including:
  - Regulatory records – IRB approvals, protocols, investigator brochure, correspondence.
  - CRFs, monitoring reports.
  - Source records – clinic charts, hospital records, x-rays, lab reports, subjects diaries.
  - Test article accountability records.

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### WHAT HAPPENS DURING AN FDA BIMO INSPECTION?

The FDA Investigator:

- Shows FDA credentials to the most responsible person;
- Issues a Form FDA 482 “Notice of Inspection” to the most responsible person;
  - Explains why FDA is there and what records and documents will be reviewed.

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### WHAT HAPPENS DURING AN FDA BIMO INSPECTION?

- The FDA Investigator will ask some general questions of the study staff and the Principal Investigator.
- The bulk of the inspection will involve the FDA Investigator reviewing records.
- Photocopies of some records will be requested.
- Federal regulations allow the FDA to inspect and copy ALL records relating to a clinical investigation.

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### WHAT HAPPENS DURING AN FDA BIMO INSPECTION?

- Any deficiencies or observations found during the inspection will be discussed during the inspection and at the close-out.
- The PI or Study Coordinator should be available to answer questions and to provide records during the inspection.

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### WHAT HAPPENS DURING AN FDA BIMO INSPECTION?

- The FDA Investigator will schedule a close-out meeting with the most responsible person.
- The site inspected may receive a Form FDA-483, "Inspectional Observations".
- Observations may also be presented orally.
- The site may discuss all observations and issues with the FDA Investigator at the time of the close-out.

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## Form FDA-483 “Inspectional Observations”

- Significant deviations from Regulations.
- Observations are based only on the FDA Investigator’s review of available records and information.

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## AFTER AN FDA BIMO INSPECTION

- The Principal Investigator should respond to the 483 observations in writing.
- The study site should take corrective actions for any deficiencies, if possible.
- Provide documentation of the corrective and preventive actions with the response.

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## AFTER AN FDA BIMO INSPECTION

- The FDA Investigator will write an Establishment Inspection Report (EIR) that contains all the information collected during the inspection, including attachments and exhibits.
- This report is forwarded to the Center that issued the assignment for review and final classification.

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## AFTER AN FDA BIMO INSPECTION

- The assigning Center will classify the inspection as:
  - NAI = no action indicated
  - VAI = voluntary action indicated
  - OAI = official action indicated

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## AFTER AN FDA BIMO INSPECTION

- The inspected site will receive a copy of the EIR after the inspection is classified.
- The assigning Center will send a follow-up letter to the PI.

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## AFTER AN FDA BIMO INSPECTION

- Possible consequences:
  - Untitled Letters
  - Warning Letters
  - Notice of Disqualification Proceeding and Opportunity to Explain (NIDPOE)
  - Rejection of the study
  - Prosecution

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## HELPFUL HINTS:

- Keep files organized at all times.
- Keep ALL correspondence – sponsor, IRB, monitors, study subjects.
  - letters, faxes, e-mails, memos, phone contacts.
- Keep all test article accountability records:
  - Shipping receipts, enrollment logs, dispensing logs.

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## HELPFUL HINTS:

- Know your IRB's requirements.
- Know the sponsor's Adverse Event reporting requirements.
- Know the protocol:
  - Inclusion/exclusion criteria, study windows, study procedures.
- Know each study staff member's roles and responsibilities – the PI is ultimately responsible.

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## HELPFUL HINTS:

- Have written procedures:
  - SOPs, Quality Policy, training procedures, job descriptions.
- Have a Corrective and Preventive Action Plan.
- Memos to File????
- **DOCUMENT!!!**

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## FOR MORE INFORMATION

- [www.fda.gov](http://www.fda.gov)
- [www.fda.gov/cder/](http://www.fda.gov/cder/)
- [www.fda.gov/cber/](http://www.fda.gov/cber/)
- [www.fda.gov/cdrh/](http://www.fda.gov/cdrh/)
- [www.fda.gov/fdac/](http://www.fda.gov/fdac/)

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## Bioresearch Monitoring (BIMO) Metrics – FY'11

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### Bioresearch Monitoring (BIMO) Metrics – FY'11

**BIMO Inspections Completed FY 2011**

Center	CI	IRB	Spon/Mon	GLP	Total
<b>CBER</b>	62	22	12	3	99
<b>CDER*</b>	315	103	44	27	489
<b>CDRH</b>	173	62	78	8	321
<b>CFSAN**</b>	0	0	0	0	0
<b>CVM</b>	26	na	6	7	39
<b>All Centers</b>	576	187	140	45	948

\* 3 IRB = RDRC; + 194 BEQ inspections (CDER specific)  
 † total = 1142  
 \*\* CFSAN's BIMO Program is under reorganization

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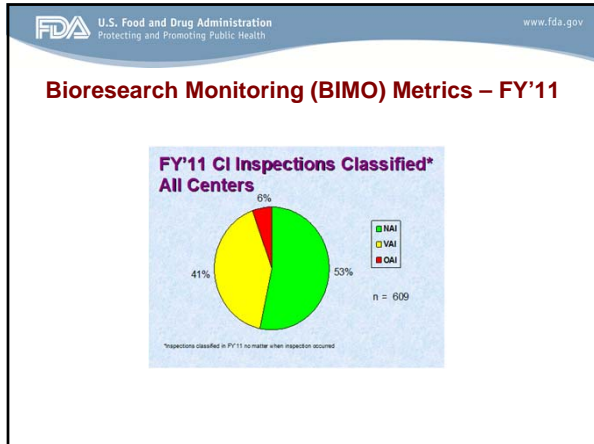
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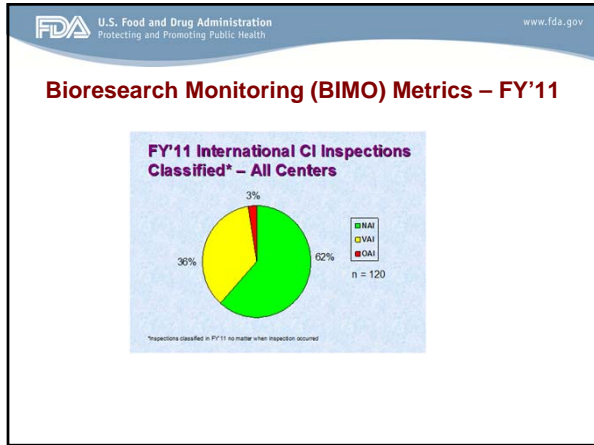
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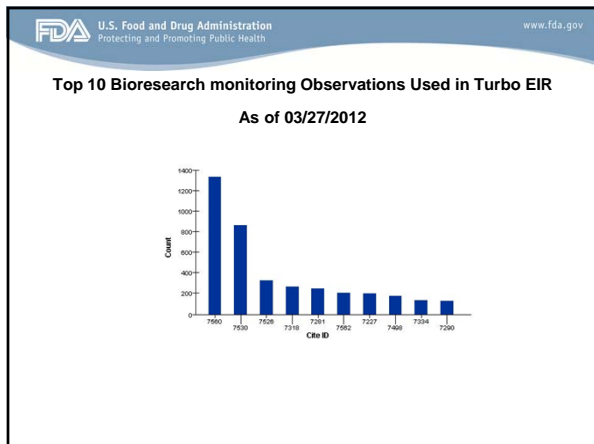
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**Top 10 Bioresearch monitoring Observations Used in Turbo EIR As of 03/27/2012**

Cite ID	Count	Reference No.	Citation Text
7560	1349	21 CFR 312.60	An investigation was not conducted in accordance with the [signed statement of investigator] [investigational plan]. Specifically***
7530	876	21 CFR 312.62(b)	Failure to prepare or maintain [adequate] [accurate] case histories with respect to [observations and data pertinent to the investigation] [informed consent]. Specifically, ***

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**Top 10 Bioresearch monitoring Observations Used in Turbo EIR As of 03/27/2012**

Cite ID	Count	Reference No.	Citation Text
7526	335	21 CFR 312.62(a)	Investigational drug disposition records are not adequate with respect to [dates] [quantity] [use by subjects]. Specifically, ***
7318	272	21 CFR 56.115(a)(2)	Minutes of IRB meetings have not been [prepared] [maintained] in sufficient detail to show [attendance at the meetings] [actions taken by the IRB] [the vote on actions, including the number of members voting for, against and abstaining] [the basis for requiring changes in or disapproving research] [a written summary of the discussion of controverted issues and their resolution]. Specifically, ***

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**Top 10 Bioresearch monitoring Observations Used in Turbo EIR As of 03/27/2012**

Cite ID	Count	Reference No.	Citation Text
7281	252	21 CFR 56.108(a)(1)	The IRB [has no] [did not follow its] written procedure for conducting its [initial] [continuing] review of research. Specifically, ***
7562	212	21 CFR 312.60	- Failure to obtain informed consent in accordance with 21 CFR Part 50 from each human subject prior to [drug administration] [conducting study - related tests] . Specifically***

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**Top 10 Bioresearch monitoring Observations Used in Turbo EIR As of 03/27/2012**

Cite ID	Count	Reference No.	Citation Text
7227	206	21 CFR 50.27(a)	Informed consent was not properly documented in that the written informed consent used in the study [was not approved by the IRB] [was not signed by the subject or the subject's legally authorized representative at the time of consent ] [was not dated by the subject or the subject's legally authorized representative at the time of consent]. Specifically, ***

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**Top 10 Bioresearch monitoring Observations Used in Turbo EIR As of 03/27/2012**

Cite ID	Count	Reference No.	Citation Text
7498	184	21 CFR 312.66	Failure to report promptly to the IRB all unanticipated problems involving risk to human subjects or others. Specifically, ***
7334	142	21 CFR 56.115(a)(5)	A list of IRB members has not been [prepared] [maintained], identifying members by [name] [earned degrees] [representative capacity] [indications of experience sufficient to describe each member's chief anticipated contribution to IRB deliberations] [any employment or other relationship between each member and the institution]. Specifically, ***

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**Top 10 Bioresearch monitoring Observations Used in Turbo EIR As of 03/27/2012**

Cite ID	Count	Reference No.	Citation Text
7290	131	21 CFR 56.108(c)	For other than expedited reviews, the IRB does not always review proposed research at convened meetings at which a majority of the members of the IRB are present, including at least one member whose primary concerns are in nonscientific areas. Specifically, ***

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### COMMON BIMO OBSERVATIONS for CLINICAL INVESTIGATORS

- Protocol Deviations/Violations.
- Failure to report Adverse Events.
- Poor record-keeping.
- Informed Consent issues.
- IRB issues.
- Test Article Accountability.
- Failure of the PI to adequately supervise the study.

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### Most Common CI Deficiencies

- Failure to follow the investigational plan
- Protocol deviations
- Inadequate recordkeeping
- Inadequate accountability for the investigational product
- Inadequate subject protection – including informed consent issues

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### Common International Deficiencies

- Similar to domestic inspectional findings
- CI inspections
  - Protocol deviations
  - Inadequate investigational product accountability
  - Inadequate subject protections

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## Final Thoughts

- Clinical investigators play a critical role in ensuring high quality studies
- Good care of patients is not the same as Good Clinical Practices (GCP) in research
  - It is important to have a clear understanding of responsibilities under FDA regulations
- At stake is public confidence and participation in the clinical trials and ultimately the availability of safe and effective products

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## Thank You

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