

Bioavailability/Bioequivalence Site Evaluation During the Pandemic

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Generic Drugs Forum 2021: Lifecycle of a Generic Drug – April 28-29, 2021

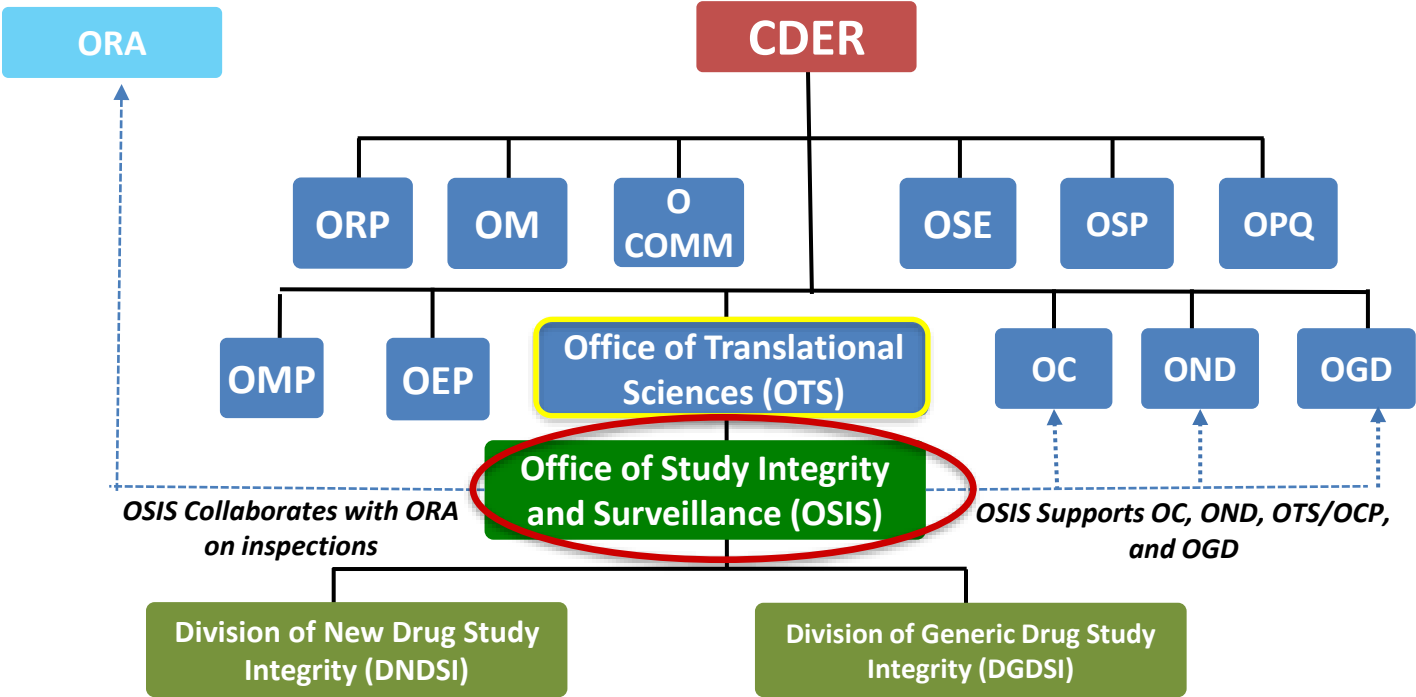
Learning Objectives

- Describe the role of OSIS in the Drug Life Cycle
- Explain how OSIS has adopted new techniques to accomplish the Agency's mission in the face of the COVID-19 pandemic

Outline

- Introduction to OSIS
- Our Mission & What We Do
- Alternative Approaches in the Face of the Pandemic
- Metrics

Organization Chart



Office of Study Integrity & Surveillance



Our Mission

- OSIS promotes the public health by ensuring the welfare of study subjects and by verifying the quality, study integrity and regulatory compliance of bioavailability/bioequivalence (BA/BE), nonclinical (GLP), and animal rule (AR) studies.

What We Do



Support FDA's and CDER's missions to protect the public health by:

- Conducting comprehensive study-directed and surveillance inspections of firms that conduct studies in support of human drug applications.



What We Do

Support FDA's and CDER's missions to protect the public health by:

- Developing and refining strategies to:
 - improve inspection planning, execution, and evaluation
 - provide recommendations to CDER review divisions, while focusing on human subject safety and data integrity.

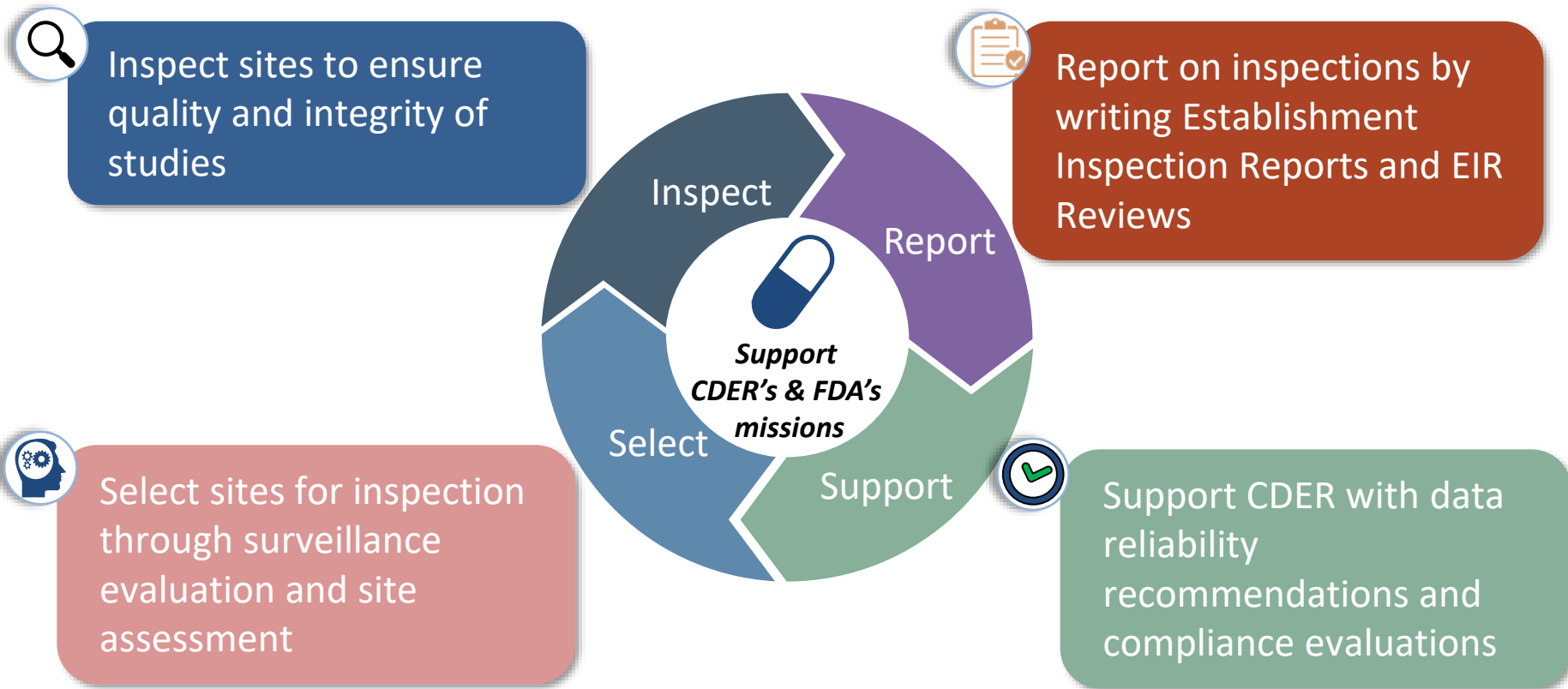


What We Do

Support FDA's and CDER's missions to protect the public health by:

- Conducting outreach through:
 - participation in national and international conferences and workshops
 - collaborating with international regulatory agencies

OSIS Mission: **Select**, **Inspect**, **Report**, **Support**



Inspection Process

Pre-
inspection

Distribute workload between the team and prepare for the inspection.

Opening

Arrive to site unannounced & conduct opening meeting with the site.

Document
Requests

Request the specific documents related to the study/studies under audit during the inspection

Facility Tour

Includes sample receipt & storage areas, laboratories, clinical facilities, archives, server room

Document
Review

Discuss any concerns with the site & collect exhibits

Close out

Conduct a close out meeting with the site & issue a form FDA 483, if applicable

What do we cover during an inspection?

- Facilities & Site Operations
- Sample Storage Areas
- Instrument Calibration & Maintenance
- Data Security
- Sample Receipt & Accountability
- Reserve Samples
- SOPs
- Training Records
- Method Validations
- Precision & Accuracy
- Stability Assessments
- Recovery
- Sample Processing
- Sample Analysis
- Method Performance
- Audit Trails
- Documentation

Challenge Question #1

What role does OSIS play in the Drug Life Cycle?

- A. Provide guidance and regulatory oversight to industry on a wide variety of clinical, scientific, and regulatory matters relating to generic drugs
- B. Conduct study-directed and comprehensive surveillance inspections of firms that conduct bioavailability/bioequivalence (BA/BE) and Good Laboratory Practice (GLP) studies sometimes with ORA investigators in support of human drug applications.
- C. Conduct research to expand our knowledge of clinical pharmacology to better evaluate benefit and risk
- D. Protect the public health by applying statistical approaches for monitoring the effectiveness and safety of marketed drugs and therapeutic biologic products.

COVID-19 Pandemic



- As a result of the COVID-19 global pandemic, routine on-site inspections were not possible due to travel restrictions (March 2020)
- All scheduled inspection travels were cancelled as of March 2020



Alternative Approaches

- Remote Record Review
 - Tool established by OSIS to support CDER application assessments for certain products and situations, including when Agency travel is restricted
 - Rolled out June 2020
 - Similar to on-site inspections
 - Voluntary interaction with a site of interest

Remote Record Review

- Audit source records and documentation
- Communicate with site's staff
- Visualize electronic systems
- Observe certain areas of site's facility
- Any identified findings are discussed during the virtual interactions

Remote Record Review

Process

Review Request/
Planning

Send Communication Letter 1 & distribute workload

Document
Request/
Review

Send Communication Letter 2 & Attachment A requesting specific documents; Receive & review all requested documents

Opening

Schedule & Conduct an opening meeting with the site

Virtual
Facility Tour

Includes sample receipt & storage areas, laboratories, clinical facilities, archives, server room, etc.

Discussions
with Site

Daily meetings to discuss any questions or concerns about the requested data; Request add'l documents

Close out

Conduct a close out meeting with the site. Issue findings/observations (sent in email prior to closing)

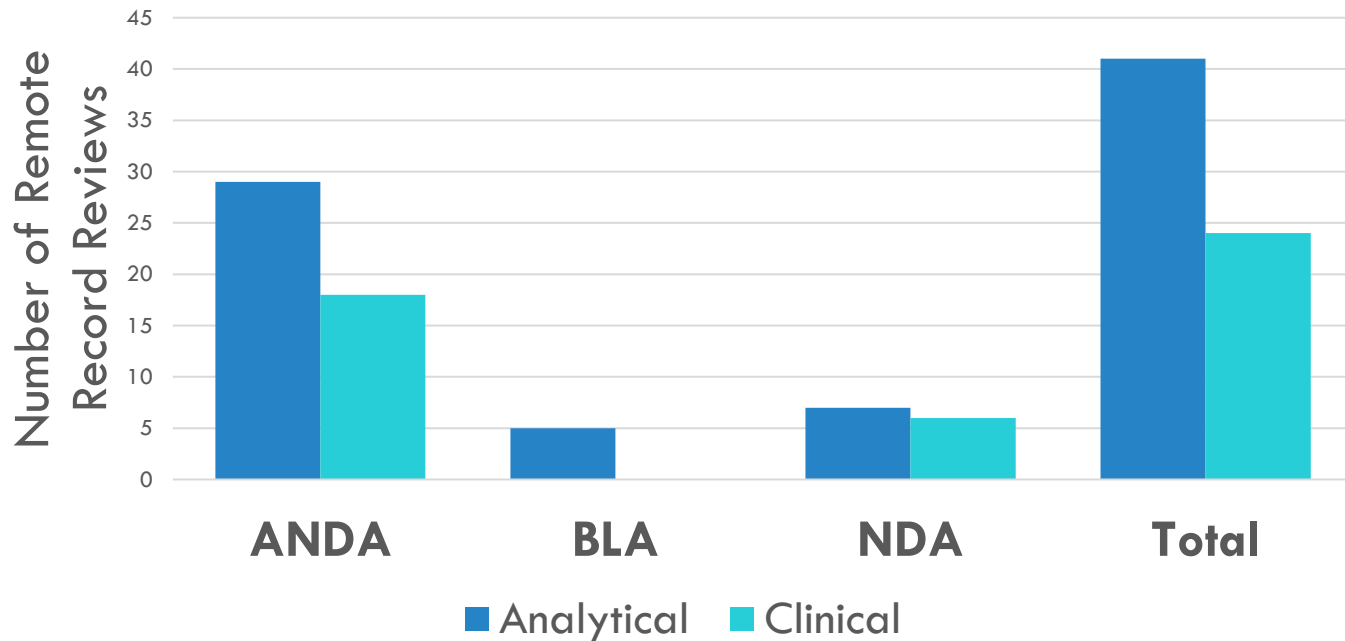
Records Reviewed include:

- Facilities & Site Operations
- Drug Product & Subject Sample Accountability (storage, handling & processing)
- Reserve Samples
- SOPs, Protocols & Protocol Deviations
- Training Records
- Method Validations & Sample Analysis
- Method Performance
- Audit Trails & Data Security
- Instrument Calibration & Maintenance
- Documentation
- AE reporting, Monitor Reports & IRB/IEC oversight (clinical)

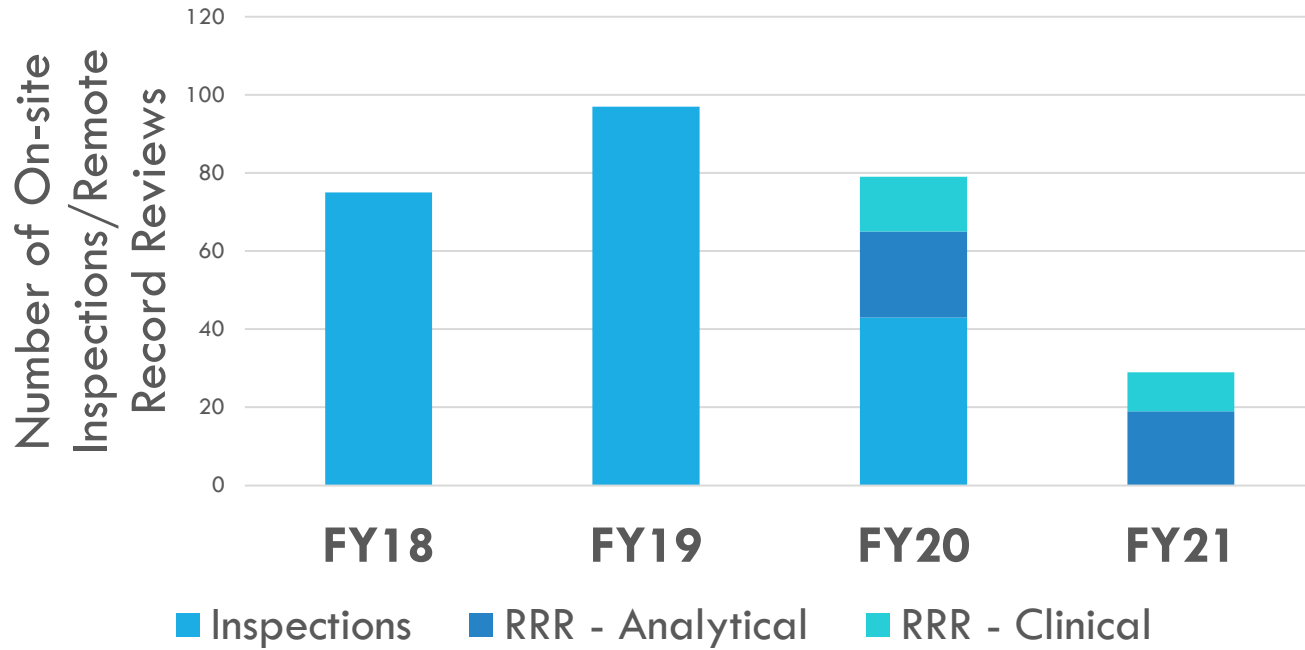
What do the numbers say?

Metrics





OSIS CONDUCTED REMOTE
RECORD REVIEWS
(since June 2020)



ON-SITE INSPECTIONS/REMOTE
RECORD REVIEWS CONDUCTED BY
OSIS

Challenge Question #2

A remote record review is NOT like an inspection because of the following reason:

- A. It is voluntary process
- B. Different aspects are covered
- C. Written observations are not provided
- D. There is no interview of the site's staff

Summary

- OSIS Mission
- OSIS's adaptation & innovation in face of Pandemic: Remote Record Review
- Metrics and how it compared to on-site inspections

Closing Thought



*Despite the sudden travel related restrictions
due to the COVID-19 pandemic,
OSIS quickly adapted and applied innovation
in order to persevere in the continuation of
our important work to fulfill our mission of
helping to ensure public health/safety*

Questions?

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