

Welcome To Today's Webinar

Thanks for joining us!
We'll get started in a few minutes

**Today's Topic: Clinical Considerations for Studies of Devices Intended to
Treat Opioid Use Disorder**

September 14, 2023

Clinical Considerations for Studies of Devices Intended to Treat Opioid Use Disorder

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**Center for Devices and Radiological Health
U.S. Food and Drug Administration**

Draft Guidance

- **Clinical Considerations for Studies of Devices Intended to Treat Opioid Use Disorder**
 - www.fda.gov/regulatory-information/search-fda-guidance-documents/clinical-considerations-studies-devices-intended-treat-opioid-use-disorder

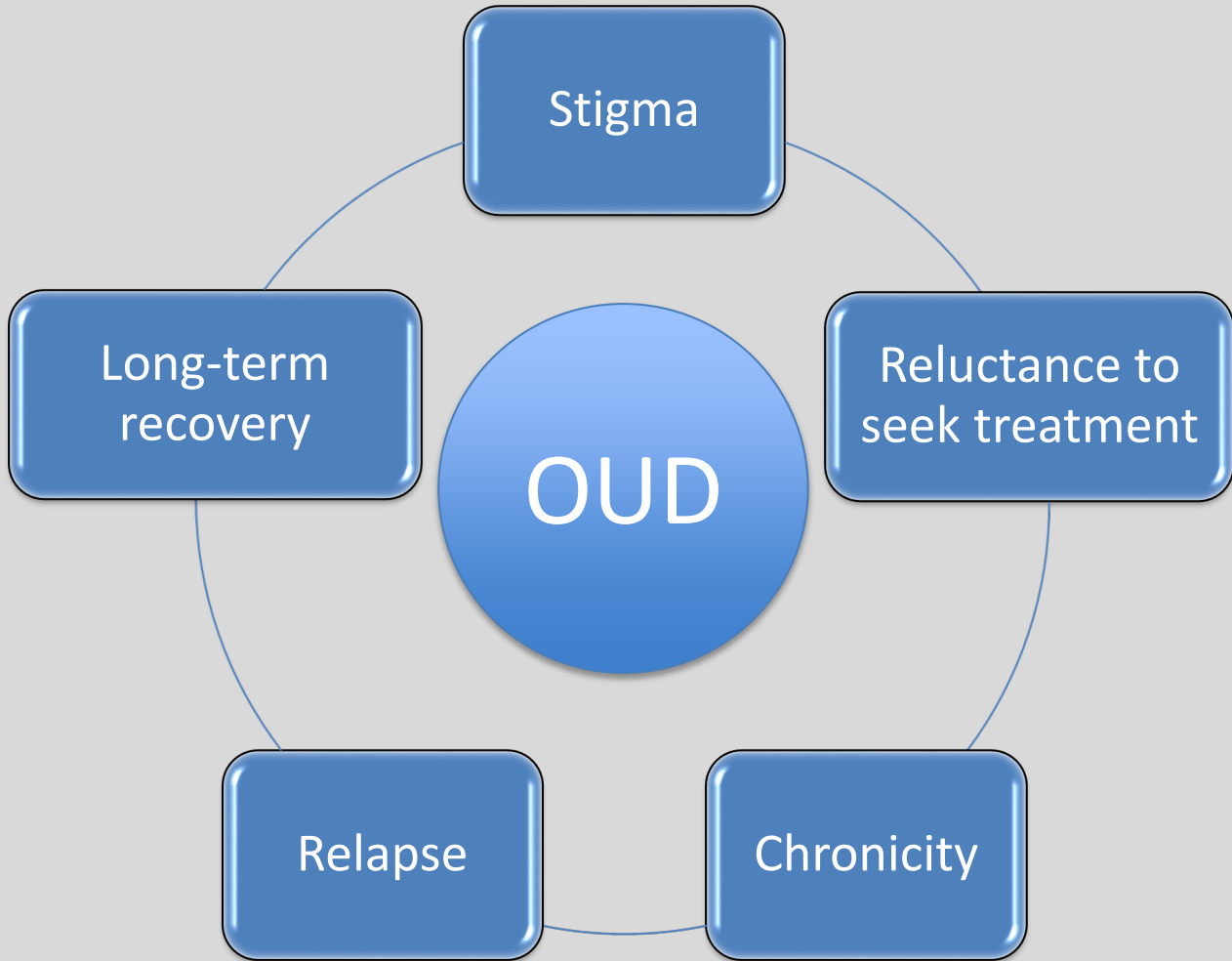
Learning Objectives

- Describe the challenges in designing pivotal Opioid Use Disorder (“OUD”) device studies
- Identify the purpose and scope of the draft guidance
- List the important design features to consider for the design of pivotal studies of devices intended to treat OUD (“OUD device studies”)

The Complexity of OUD

Opioid Epidemic and OUD

- The opioid crisis is a public health emergency (PHE)
- PHE most recently renewed on March 31, 2023
- FDA is committed to addressing this PHE:
- Part of [FDA Overdose Prevention Framework](#)



Purpose and Scope of Guidance

Purpose

- Provides recommendations for the design of pivotal clinical studies for devices intended to treat OUD and used to support future marketing authorization

Scope

- Only devices intended to treat OUD
- Excluded:
 - Early feasibility/preliminary studies
 - Devices intended to detect opioid use
 - Devices intended to diagnose/determine risk of developing OUD
 - Devices intended to treat pain
 - Combination products

Recommendations for Pivotal OUD Device Studies

General Principles

- Well-controlled studies:
 - [21 CFR 860.7](#) (Determination of safety and effectiveness)
 - See “[Design Considerations for Pivotal Clinical Investigations for Medical Devices](#)”
- Discussion through Q-Submission (Q-Sub)
 - See “[Requests for Feedback and Meetings for Medical Device Submissions: The Q-Submission Program](#)”

Clinical Study Design Recommendations

Patient Population
& Treatment
Assignment

Recording
Medication Use

Monitoring Drug
Use

Study Length and
Evaluation

Participant
Retention &
Missing Data

Clinical Outcomes

Patient Population and Treatment Assignment

- Defined, representative study population
 - See [“Collection of Race and Ethnicity Data in Clinical Trials”](#)
- Use a sham control to minimize bias and uncertainty

Recording Medication Use

- Need to mitigate inaccurate reports of drug use
- Record baseline medications
 - Prescribed drug(s)
 - Dose
 - Duration
 - Timing of drug use
 - Medication changes

Monitoring Drug Use

- Self-reports and objective measures, such as:
 - Random and schedule urine tests
 - Drug levels in blood or saliva
 - Use of drug detection technologies
- Quantitative methods take precedence over self-reported information

Study Length and Evaluation

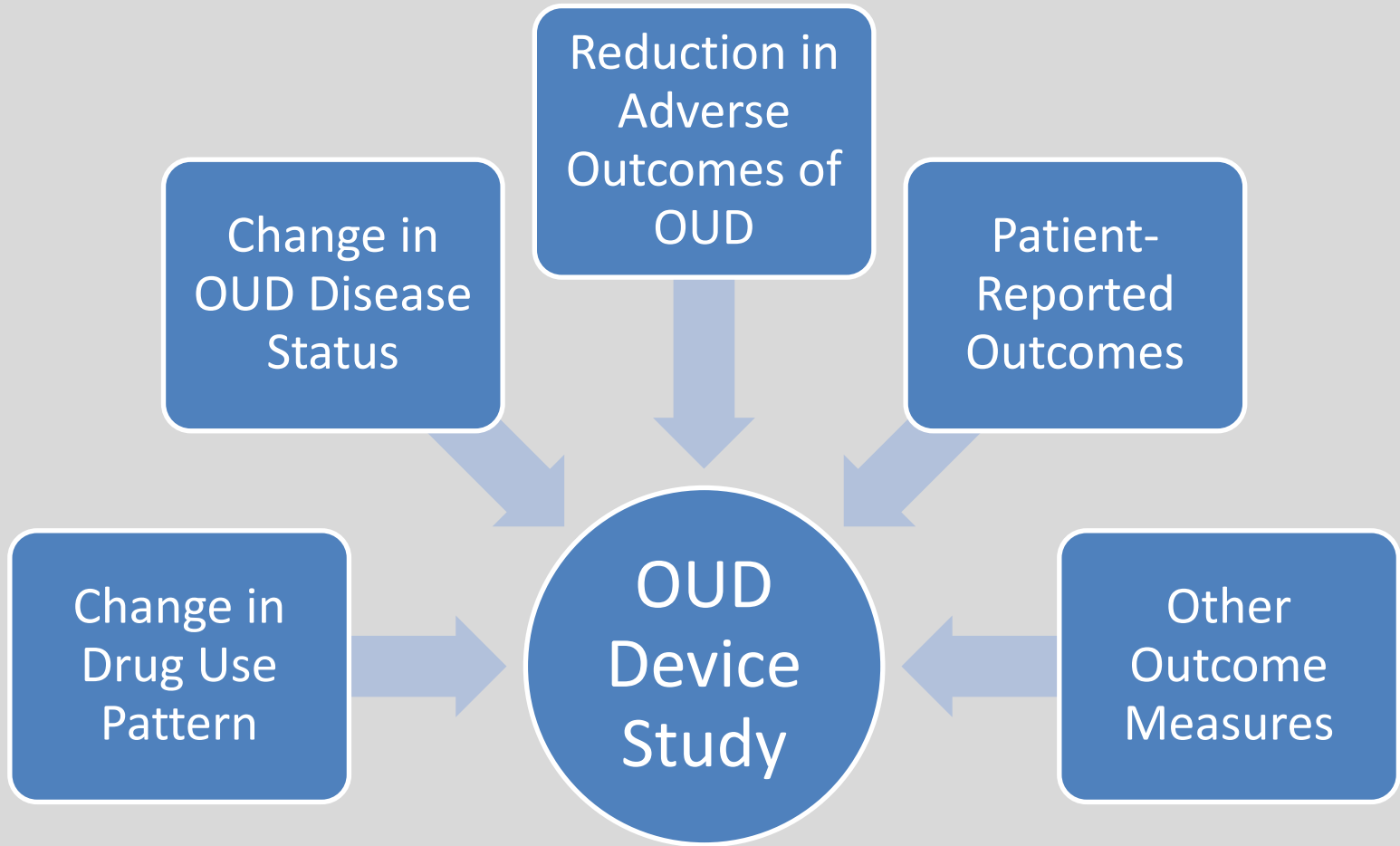
- Minimum of 6 months treatment duration
- Include procedures to account for:
 - Participant retention
 - Missing data

Participant Retention and Missing Data

- Maximizing study participation is critical
- Missing data introduces a high degree of uncertainty in study results
- Need methods/procedures to address, detect, and correct missing data

Clinical Outcomes

- Generate valid scientific evidence
- Demonstrate clinically significant benefits
- Primary outcomes
 - Main source of effectiveness evidence
- Secondary outcomes
 - Help confirm or explain primary outcomes
- Consistent with the Center for Drug Evaluation and Research (CDER) guidance
 - [“Opioid Use Disorder: Endpoints for Demonstrating Effectiveness of Drugs for Treatment Guidance for Industry”](#)



Resources

Slide Number	Cited Resource	URL
12	21 CFR 860.7 – Determination of safety and effectiveness	www.ecfr.gov/current/title-21/chapter-I/subchapter-H/part-860/subpart-A/section-860.7
12	Design Considerations for Pivotal Clinical Investigations for Medical Devices	www.fda.gov/regulatory-information/search-fda-guidance-documents/design-considerations-pivotal-clinical-investigations-medical-devices
12	Requests for Feedback and Meetings for Medical Device Submission: The Q-Submission Program	www.fda.gov/regulatory-information/search-fda-guidance-documents/requests-feedback-and-meetings-medical-device-submissions-q-submission-program
14	Collection of Race and Ethnicity Data in Clinical Trials	www.fda.gov/regulatory-information/search-fda-guidance-documents/collection-race-and-ethnicity-data-clinical-trials
19	Opioid Use Disorder: Endpoints for Demonstrating Effectiveness of Drugs for Treatment Guidance for Industry	www.fda.gov/regulatory-information/search-fda-guidance-documents/opioid-use-disorder-endpoints-demonstrating-effectiveness-drugs-treatment-guidance-industry

A Note about Draft Guidances

- You may comment on any guidance at any time
 - see 21 CFR 10.115(g)(5)
- Please submit comments on draft guidance before closure date
 - to ensures that FDA considers your comment on a draft guidance before we work on final guidance
- Draft guidance is not for implementation

Submit Comments to Dockets by: October 26, 2023

- **Draft Guidance: Clinical Considerations for Studies of Devices Intended to Treat Opioid Use Disorder**
 - Docket: [FDA-2023-D-0466](https://www.fda.gov/oc/ohrt/docket/FDA-2023-D-0466)
 - www.regulations.gov/docket/FDA-2023-D-0466

Summary

- Spur innovative options to combat opioid epidemic
- Provide recommendations for OUD device studies:
 - Generate valid scientific evidence from well-controlled studies
 - Demonstrate clinically meaningful benefits
 - Provide reasonable assurance of safety and effectiveness
- Complexity of OUD necessitates:
 - Collaboration with FDA (Q-Submission process)
 - Discussion of alternative study designs and methods



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Additional Panelists

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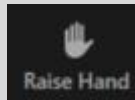
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Let's Take Your Questions

- **To Ask a Question:**



1. Raise your hand in Zoom
2. Moderator will announce your name and invite you to ask your question
3. Unmute yourself when prompted in Zoom to ask your question

- **When Asking a Question:**

- Ask one question only
- Keep question short
- No questions about specific submissions

- **After Question is Answered:**

- Mute yourself and lower your hand
- If you have more questions - raise your hand again

Thanks for Joining Today!



- **Presentation and Transcript will be available at CDRH Learn**

- www.fda.gov/Training/CDRHLearn

- **Additional questions about today's webinar**

- Email: DICE@fda.hhs.gov

- **Upcoming Webinars**

- www.fda.gov/CDRHWebinar



Start Here/The Basics! (New Module 07/19/2023) <i>MDUFA Small Business Program, Registration and Listing</i>	▼
How to Study and Market Your Device - (Updated module 12/15/22) <i>510k, De Novo, IDE, PMA, HUD/HDE, Q-Submissions, Standards, Classification</i>	▼
Postmarket Activities - (New module 12/15/2022) <i>Quality System, Exporting, Device Recalls, MDR, Inspection - Global Harmonization</i>	▼
In Vitro Diagnostics - (Updated 05/05/23) <i>IVD Development, CLIA, and Virtual Town Hall Series</i>	▼
Unique Device Identification (UDI) System	▼
Specialty Technical Topics - (Updated module 07/18/23)	▼
Radiation-Emitting Products	▼
510(k) Third Party Review Program (for Third Party Review Organizations)	▼
Industry Basics Workshop Series - (Updated 12/9/22)	▼



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