

November 12-14, 2019 | College Park, MD

This course provides a study of clinical trial principles with in-depth coverage of clinical trial design, issues in safety and efficacy, investigator responsibilities, understanding the investigator brochure, and FDA requirements across Centers.

Upon completion, attendees should understand pre-clinical research, clinical trials, and FDA submissions for licensure of medical products.

Learning Objectives

- Explain the responsibilities of an investigator conducting a clinical trial.
- Describe what to look for in drugs being studied in a clinical trial.
- Describe the basic concepts of clinical trial design.
- Review clinical data for sources of bias and error.

Agenda

Day 1: Tuesday, November 12, 2019

7:30	Breakfast, Registration and Distribution of Course Material	
8:20	Welcome and Course Introduction	Leonard Sacks, MD Associate Director for Clinical Methodology Office of Medical Policy (OMP) Center for Drug Evaluation and Research (CDER) FDA
8:30	FDA Structure and Mandate	Leonard Sacks, MD CDER FDA
		SESSION 1: Trial Design
9:00	Design of Clinical Trials (Pt. 1)	Robert Temple, MD Deputy Center Director for Clinical Science Office of the Center Director (OCD) CDER FDA



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9:45	Break	
	Visit FDA Exhibits	
10:00	Design of Clinical Trial (Pt. 2)	Robert Temple, MD
10:30	Clinical Trial Endpoints	Elektra Papadopoulos MD, MPH
		CDER FDA
11:00	Questions and Answers	Robert Temple, MD Elektra Papadopoulos , MD,
11:15	New Trends in Clinical Trial Designs	
	Part 11 and Digital Health Tools	Leonard Sacks, MD
	Real World Evidence	David Martin, MD, MPH CDER FDA
	Decentralized Clinical Trials	Isaac Rodriguez-Chavez, PhD, MHSc,
		MSc CDER FDA
12:00	Questions and Answers	Leonard Sacks, MD
		David Martin, MD, MPH Isaac Rodriguez-Chavez, PhD,
		MHSc, MSc
12:15	Lunch Provided	
	Visit FDA Exhibits	
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1:15	Issues in Clinical Trial Designs for	Adam Donat, MS
	Devices	Center for Devices and Radiological Health (CDRH) FDA
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1:45	Issues in Clinical Trial Design for Companion Diagnostic Devices	Karen Bijwaard, MS, RAC, MB(ASCP), CQA
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2:15 Questions and Answers Adam Donat Karen Bijwaard, MS

2:30 Break
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SESSION 2: Issues in Clinical Trial Safety and Efficacy

2:45	Safety Considerations in Phase I Trials	Ramya Gopinath, MD CDER FDA
3:15	Safety Assessment in Clinical Trials and Beyond	Shabnam Naseer, DO, MS CDER FDA
3:45	Questions and Answers	Ramya Gopinath, MD Shabnam Naseer, DO, MS
4:00	Avoiding Bias and Random Error in Data Analysis	Susan Ellenberg, PhD University of Pennsylvania
4:45	Questions and Answers	Susan Ellenberg, PhD
5:00	Adjourn	
	Networking Session in Lower Lobby	



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Day 2: Wednesday, November 13, 2019

SESSION 2: Issues in Clinical Trial Safety and Efficacy (cont.).

8:30 Special Trial Design Considerations in Rare Disease Trials 9:00 Organ Specific Toxicities Roundtable Oncology Meredith Chuk, MD	·
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CDER FDA	
Hepatic Kirti Shetty, MD University of Marylan	nd
Hematology Rosanna Setse, MD, CDER FDA	, PhD
Renal Aliza Thompson, MI CDER FDA	D, MS
Cardiac Shari Targum, MD, I FACC, FACP CDER FDA	MPH,
Oncology and Immunotherapies Ashkan Emadi, MD, University of Marylan	
10:00 Break	
10:15 Personalized/ Precision Medicine Alan R. Shuldiner, Muniversity of Marylan	
10:45 Specific Populations: Mario Sampson, Ph Pediatrics, Pregnancy, Renal and Hepatic Impairment Mario Sampson, Ph CDER FDA	narmD
11:15 Gene Therapy Lei Xu, MD, PhD Center for Biologic R and Evaluation (CBE	
11:45 Questions and Answers Mario Sampson, Ph	armD



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		Alan R. Shuldiner, MD, PhD Lei Xu, MD, PhD
12:00	Lunch Provided	

SESSION 3: Investigator Responsibilities and Patient Perspective

1:00	Investigator Responsibilities-Regulation and Clinical Trials	Cynthia Kleppinger, MD CDER FDA
2:00	Questions and Answers	Cynthia Kleppinger, MD
2:15	Informed Consent and Ethical Considerations in Clinical Trials	Jon Mark Hirshon, MD, PhD, MPH, FACEP University of Maryland
2:45	Clinical Investigator Site Inspections- What to Expect	Michelle Anantha, MSPAS, PA-C, RAC CDER FDA
3:15	Questions and Answers	Michelle Anantha, MSPAS Jon Mark Hirshon, MD, PhD Cynthia Kleppinger, MD
3:30	Break	
3:45	Good Clinical Practice (GCP) and ClinicalTrials.gov	Bridget Foltz, MS FDA
4:15	International Clinical Trials: GCP Perspective	Kassa Ayalew, MD, MPH CDER FDA



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4:45 Questions and Answers Kassa Ayalew, MD, MPH
Bridget Foltz, MS

5:00 Adjourn

Day 3: Thursday, November 14, 2019

SESSION 4: Understanding the Investigator Brochure: Non-clinical and Early Clinical Studies

8:30	Quality Issues for Clinical Trial Materials: The CMC Review	Erika E. Englund, PhD CDER FDA
9:00	Pharmacology/Toxicology in the Investigator Brochure	Matthew Thompson PhD, MPH CDER FDA
9:30	Clinical Pharmacology	Shirley K. Seo, PhD CDER FDA
10:00	Questions and Answers	Erika Englund, PhD Shirley K. Seo, PhD Matthew Thompson, PhD
10:15	Break	

SESSION 5: INDs and IDEs – A Cross-center Perspective

Moderator: Donald Fink, PhD

10:30	Center for Drug Evaluation and Research	Lawrence Allan CDER FDA
	How to Put together an Investigational New Drug (IND) Submission	
11:30	Center for Biologics Evaluation and Research (CBER)	Donald Fink, PhD CBER FDA Feorillo Galivo, MD, PhD
	Putting Together Your IND Application (CBER): CMC, Preclinical Testing and Clinical Trial Design Expectations to Ensure Safety for a First-in-Human Clinical Investigation	CBER FDA Deborah Belsky, MD, MPH, FAAFP CBER FDA



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12:30	Lunch Provided	
1:30	Center for Devices and Radiological Health (CDRH)	Joshua Chetta, PhD FDA, CDRH
	Medical Device Clinical Evidence: IDEs and Beyond	Nadezda Radoja, PhD FDA, CDRH
2:30	Questions and Answers	Lawrence Allan Deborah Belsky, MD Joshua Chetta, PhD Donald Fink, PhD Feorillo Galivo, MD, PhD Nadezda Radoja, PhD
3:00	Patient and Investigator Perspective Panel Patient Perspectives	Pat Furlong Founding President & CEO, Parent Project Muscular Dystrophy
		Lisa Salberg CEO, Hypertrophic Cardiomyopathy Association
	Pulmonology, Epidemiology and Safety	Michael Terrin, MD, CM MPH University of Maryland
	Infectious Diseases and Pediatrics	James Campbell, MD, MS University of Maryland
4:00	Questions and Answers	James Campbell, MD, MS Pat Furlong Lisa Salberg Michael Terrin, MD, MPH
4:15	Closing Remarks	Leonard Sacks, MD
4:20	Adjourn	