



Complex Product Workshop

Markham C. Luke, MD PhD Director, Division of Therapeutic Performance (DTP) Office of Research and Standards (ORS) Office of Generic Drugs (OGD), CDER, FDA, HHS

November 6, 2019 Generic + Biosimilar Medicines Conference North Bethesda, MD



Workshop Disclaimer

• The opinions and conclusions expressed in this workshop are the viewpoints of the speaker(s) and do not necessarily reflect the official position of the U.S. Food and Drug Administration.



Complex Generic Products in GDUFA II

- Complex active ingredients
 - Complex mixtures of APIs, polymeric compounds, peptides
- Complex formulations
 - Liposomes, suspensions, emulsions, gels
- Complex routes of delivery
 - Locally acting such as dermatological and inhalational drugs
- Complex dosage forms
 - Long acting injectables, implantable drugs
- Complex drug-device combination products
 - Transdermals, metered dose inhalers (MDIs)
- Other products where complexity or uncertainty concerning the approval pathway or other alternative approach would benefit from early scientific engagement

GDUFA: Generic Drug User Fee Amendments

https://www.fda.gov/downloads/ForIndustry/UserFees/GenericDrugUserFees/UCM525234.pdf



Complex Product Workshop Logistics

1:30 PM – Salon B/D Introduction Markham Luke Podium Keynote Rob Lionberger Pre-ANDA – Interacting with FDA Kris Andre 1:55 PM - Breakout Session Descriptions 2:25 PM – End Main Room Session – Go to Breakouts

Workshop Logistics 2

2:30 PM—Breakout Sessions – Hands-on Role Play for Pre-ANDA

- Group 1 Salon B/D Liposomal Ophthalmologic Suspension
- Group 2 Salon A Orally Inhaled Drug-Device Combination Product
- Group 3 Brookside Topical Dermatologic Cream

Each session will include

- a) Crafting a meeting package what to include
- b) How to write good questions to ask FDA
- c) Simulated pre-ANDA meeting
- 4:20 PM—End of Breakout Sessions

FDA

Workshop Logistics 3

4:25 PM – Salon B/D

Report back from each of the Breakout Sessions 4:55 PM – Closing Remarks – Rob Lionberger and Jeff Jiang Course Evaluations 5:00 PM – End of Workshop





Acknowledgements

- Sam Raney, Lei Zhang
- OGD Communications, Project Management, Admins, and AAM Liaisons – Thomas Hinchliffe, Barbara Kass, Shivangi Goel, Jordana O'Grady, Tu-Van Lambert, Lauren Sams, Tawni Schwemer
- Our FDA Faculty for the Complex Product Workshop
 - Robert Lionberger, Kris Andre
 - Jeff Jiang, Darby Kozak, Bing Cai, Liang Zhao, Andrew Babiskin
 - Bryan Newman, Sneha Dhapare, Ross Walenga, Dhaval Gaglani, Bhagwant Rege
 - Priyanka Ghosh, Eleftheria Tzakalozou, Pahala Simamora

