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Product Quality Re

The Global Bioequivalence Harmonisation Initiative

PQRI/EUFEPS Global Bioequivalence Harmonisation Initiative 6th International Workshop – GBHI 2024 April 16-17, 2024 - Rockville, MD







Tuesday – Wednesday, April 16 - 17, 2024

United States Pharmacopeia (USP) Meeting Center <u>12601 Twinbrook Pkwy, Rockville, MD 20852</u>

Wenlei Jiang, Food and Drug Administration (FDA), US (Co-Chair) Barbara S. Schug (SocraTec R&D), Germany (Co-Chair)

Day 1 – Tuesday, April 16, 2024 8:00 AM – 5:00 PM US EDT All times are in US Eastern Daylight Savings Time		
8:00 - 8:30 AM	CHECK-IN/BREAKFAST	
8:30 - 8:35 AM	Workshop Opening Wenlei Jiang, Food and Drug Administration (FDA), US (Co-Chair)	
8:35 - 8:40 AM	<i>Welcome and Introduction</i> PQRI Board Chair (Invited)	
8:40 - 9:00 AM	Opening Remarks Lei Zhang (FDA), US	
SESSION 1: MOVING THE NEEDLE TOWARDS CONVERGENCE ON ICH M13 TOPICS Session Chairs: Nilufer Tampal (FDA), US & Paulo Paixão (Infarmed), Portugal		
9:00 - 9:05 AM	Summary of Preceding GBHI Discussions on ICH M13 Related Topics Nilufer Tampal (FDA), US	
Part 1: Oral PBPK		
9:05 – 9:20 AM	Physiological Based Pharmacokinetics (PBPK) Fasted/Fed Bioequivalence (BE) – Generic Industry Perspective Rebeka Jereb (Sandoz)	
9:20 – 9:35 AM	Industry Perspective on the Utility of Model-Based Approaches in BE Filippos Kesisoglou (Merck), US	
9:35 – 9:50 AM	PBPK Modeling for Waiving Fed BE Study Rodrigo Cristofoletti (University of Florida), US	
9:50 – 10:10 AM	PANEL DISCUSSION	
	Rebeka Jereb, Filippos Kesisoglou, Rodrigo Cristofoletti, Paulo Paixão, Fang Wu (FDA), US	

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10:10 – 10:30 AM	COFFEE BREAK	
Part 2: Narrow Therapeutic Index (NTI) Drugs And Highly Variable Drugs (HVDs)		
10:30 – 10:50 AM	BE Study Design for NTI Drugs and Control of Type I Error Paulo Paixão (Infarmed), Portugal	
10:50 - 11:10 AM	Alternative BE Criteria/Approaches for NTI Products Wanjie Sun (FDA), US	
11:10 – 11:30 AM	Deep Dive into Generic Drug Applications to Seek Data-Driven Harmonization of BE Criteria for NTI drugs Wenlei Jiang (FDA), US	
11:30 – 11:50 AM	HVD and Type I Error Helmut Schutz (BEBAC) Austria	
11:50 AM - 12:10 PM	Two-stage Designs and their Acceptability in the EC Area Susanne Urach, European Medicines Agency (EMA), Austria	
12:10 - 12:40 PM	PANEL DISCUSSION Paulo Paixão, Wanjie Sun, Wenlei Jiang, Helmut Schutz, Susann Urach	
12:40 - 1:30 PM	LUNCH	
SESSION 2: BE CONSIDERATIONS FOR MODIFIED RELEASE (MR) DRUG PRODUCTS: SINGLE DOSE VS MULTIPLE DOSE STUDIES AND STRENGTH WAIVERS Session Chairs: Barbara Schug (SocraTec R&D), Germany & John Gordon (Health Canada), Canada		
1:30 – 1:45 PM	Summary of Preceding GBHI Discussions on MR Drug Products including Solid Oral MR Products, Transdermal Therapeutic Systems and Long-Acting Injectables (LAI) Barbara Schug, (SocraTec R&D), Germany	
Part I: Single Dose ve	s. Multiple Dose for BE Demonstration of MR Products	
1:45 – 1:55 PM	Why Are Multiple-Dose Studies Considered Necessary for MR Drug Products at Risk for Accumulation – Background Information on the EMA Requirement Carolien Versantvoort, Medicine Evaluation Board (MEB), The Netherlands	
1:55 – 2:25 PM	How PopPK Modeling Could Help Avoid Multiple Dose Studies: Industry Perspective Vivek Purohit (Pfizer), US	
2:25 - 2:45 PM	<i>Model-Integrated Evidence (MIE) to Demonstrate BE for LAI and Implantables</i> Yuqing Gong (FDA), US	
2:45 - 3:10 PM	PANEL DISCUSSION Carolien Versantvoort, Vivek Purohit, Yuqing Gong, Other Panelists TBD	
3:10 - 3:30 PM	COFFEE BREAK	
Part 2: Studies Needed for BE Demonstration of Additional Strengths in Solid Oral MR Products		
3:30 - 3:45 PM	European Specificities of MR Drug Products Strength Waiver – Differentiation Between Single and Multiple Unit Dosage Forms Carolien Versantvoort (MEB), The Netherlands	

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3:45 - 4:00 PM	Current FDA Consideration and Practices for BE Demonstration of Additional
	Strengths in Solid Oral MR Products
	Rong Wang (FDA), US
4:00 - 4:25 PM	Industry Examples on BE Demonstration of Additional Strengths in Solid Oral MR
	Products
	Yihong Qiu (QPD Solutions LLC), US
4:25 - 4:50 PM	PANEL DISCUSSION
	Carolien Versantvoort, Rong Wang, Yihong Qiu, Heather Boyce (FDA), USA; other panelists TBD
ADJOURN DAY 1	Workshop Closing
	USP Representative
6:00 – 7:30 PM	Networking Reception
	Hilton Washington DC/Rockville Hotel & Executive Meeting Center
	1750 Rockville Pike, Rockville, MD

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GBHI 2024

Tuesday – Wednesday, April 16-17, 2024

	Day 2 – Wednesday, April 17, 2024	
	8:00 AM – 5:00 PM US EDT	
All Times in US Eastern Daylight Savings Time		
8:00 - 8:15 AM	BREAKFAST	
	J <mark>C (pAUC) for Bioequivalence Demonstration</mark> Mehta (FDA), US & Jan Welink (MEB), The Netherlands	
Part 1: Regulatory O	verview	
8:15 - 8:35 AM	FDA Current Rationales to Recommend pAUC and Practice for Product Evaluation Lucy Fang (FDA), US	
8:35 - 8:50 AM	EMA Current Practice Jan Welink, (MEB), Netherlands	
8:50 - 9:00 AM	Health Canada Current Practice John Gordon (Health Canada), Canada	
9:00 - 9:15 AM	ANVISA Current Practice Eduardo Agostinho Freitas Fernandes (ANVISA), Brazil	
Part 2.: Academic Ov	verview	
9:15 - 9:50 AM	Advantages and Challenges of Partial AUC: Insights from GI Physiology, Pharmacokinetics, and Drug Dissolution in the GI Tract Duxin Sun (University of Michigan), US	
Part 3: Industry View	/point	
9:50 - 10:05 AM	Innovator Industry Experiences on pAUC Jack Cook (A2-Ai), US	
10:05 - 10:20 AM	Application of pAUC for Evaluation of MR Products: Generic Perspectives Russell Rackley, Viatris, US	
10:20 - 10:35 AM	Early Exposure in IR Products: pAUC and Alternative Approaches – View from the Generic Industry Susana Almeida (IGBA), Switzerland	
10:35 - 10:55 AM	COFFEE BREAK	
10:55 - 11:50 AM	PANEL DISCUSSION Lucy Fang, Jan Welink, John Gordon, Duxin Sun, Jack Cook, Russell Rackley, Susana Almeida, Eduardo Agostinho Freitas Fernandes, Hao Zhu (FDA), USA, Junya Makino (PMDA), Japan	
11:50 AM- 12:50 PM	LUNCH	

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SESSION 4: BE STUDY CONSIDERATION FOR ORALLY INHALED DRUG PRODUCTS (OIDPs) Session leads: Wenlei Jiang (FDA), US & Gerald Beuerle (Teva), Germany	
12:50 - 12:55 PM	Summary of Preceding GBHI Discussion on OIDPs Gerald Beuerle (Teva), Germany
Part 1: Regulatory	/ Session
12:55 - 1:10 PM	EMA Current Practices for BE Evaluation of OIDPs Alfredo García Arieta (AEMPS), Spain
1:10 - 1:25 PM	PMDA Current Practices for BE Evaluation of OIDPs Junya Makino (PMDA), Japan
1:25 - 1:40 PM	FDA Current Practices for BE Evaluation of OIDPs Ke Ren (FDA), US
1:40 - 2:00 PM	PANEL DISCUSSION Alfredo García Arieta, Junya Makino, Ke Ren, Eduardo Agostinho Freitas Fernandes
2:00 - 2:20 PM	COFFEE BREAK
Part 2: Scientific S	Session
2:20 - 2:45 PM	Progress Made in Alternatives to Comparative Pharmacodynamic and Clinical Endpoints for BE Demonstration of OIDPs Bryan Newman (FDA), US
2:45 - 3:10 PM	Identify Key in vitro Comparative Tests & Propose Optimal Data Analysis Method for in vitro Tests Anthony Hickey (Research Triangle Institute), US
3:10 - 3:35 PM	Systemic Pharmacokinetic BE studies With and Without Blocked GI Absorption to Predict Regional Lung Exposure Barbara Schug (SocraTec R&D), Germany
3:35 - 4:00 PM	Recommended Studies to Support Different Levels of Post Approval Changes of OIDPs Xian-Ming Zeng (TranspireBio), US
4:00 - 4:40 PM	PANEL DISCUSSION Bryan Newman, Barbara Schug, Xian-Ming Zeng, Anthony Hickey
4:40 - 4:50 PM	Day 2 Closing Remarks Barbara S. Schug (SocraTec R&D), Germany (Co-Chair)

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Workshop Planning Committee

Wenlei Jiang, PhD, Food and Drug Administration, (FDA), US (Co-chair) Barbara S. Schug, PhD, SocraTec R&D, Germany (Co-chair) Susana Almeida, PhD, International Generic and Biosimilar Medicine Association (IGBA), Switzerland Gerald Beuerle, PhD, Teva, Germany Erem Bilensoy, PhD, Hacettepe University, Turkey David Brown, PhD, Medicines and Healthcare products Regulatory Agency, (MHRA), UK Jack Cook, PhD, A2-Ai, US Eduardo Agostinho Freitas Fernandes, MSc, Agência Nacional de Vigilância Sanitária (ANVISA), Brazil Dede Godstrey, Product Quality Research Institute (PQRI), US John Gordon, PhD, Health Canada, Canada Sandra Häberle, the European Federation for Pharmaceutical Sciences (EUFEPS) Sebastian Haertter, PhD, Boehringer Ingelheim, Germany Georg Hempel, PhD, University of Münster, Germany Evangelos Kotzagiorgis, PhD, European Medicines Agency (EMA), Netherlands Ryosuke Kuribayashi, PhD, Pharmaceuticals and Medical Devices Agency (PMDA), Japan Mehul Mehta, PhD, FDA, US Andreas Kovar, PhD, Sanofi, Germany Katalina Mettke, PhD, Bundesinstitut für Arzneimittel und Medizinprodukte (BfArM), Germany Paulo Paixão, PhD, Lisbon University, Member of the Medicines Evaluation Board at Infarmed, Portugal Anne Seidlitz, PhD, Heinrich Heine University Düsseldorf, Germany Nilufer Tampal, PhD, FDA, US Yu-Chung Tsang, PhD, Apotex, Canada Ralph-Steven Wedemeyer, PhD, SocraMetrics, Germany Jan Welink, PhD, Medicines Evaluation Board (MEB), Netherlands