

GRADUATE CERTIFICATE IN HEALTH PRODUCTS REGULATION GMS5007 Regulation of Generic Medicines

09 May 2022 - 13 May 2022

WORKSHOP PROGRAMME

Learning outcomes

- Explain the principles and regulatory requirements for a generic medicinal product and the differences from an innovator product
- Describe the fundamental principles for evaluating quality and clinical aspects of a generic medicine
- Describe contemporary approaches and considerations for assessing bioequivalence of different dosage forms
- List the initiatives that are promoting efficiency and effectiveness through regulatory cooperation





Graduate Certificate in Health Products Regulation

GMS5007 Regulation of Generic Medicines

09 – 13 May 2022

Day 1 - 09 May, Mon

	Topic	Speaker/ Organisation
9.00am	Zoom Briefing	Mr Osman Bin Mohamad Senior Associate Centre of Regulatory Excellence (CoRE) Duke-NUS Medical School
9.30am	Workshop Briefing	Asst Prof James Leong Head of Pharmaceutical Regulatory Science Programme CoRE, Duke-NUS Medical School
10.30am	Refreshment Break	
Session 1	: Regulatory Management of Generic Medicines	
11.00am	Regulatory guidelines for generics Key references for submission and evaluation of generics	Dr Henrike Potthast Biopharmaceutics Expert Pharmacokinetics Federal Institute for Drugs and Medical Devices (BfArM) Germany
11.45am	 Dossier requirements for generics ICH CTD and ACTD ASEAN Technical Guidelines 	Ms Tan Mui Kiat Principal Assistant Director Generic Medicines Section National Pharmaceutical Regulatory Agency (NPRA), Malaysia
12.30pm	Lunch	
2.00pm	 Regulatory frameworks for generics Overview of the regulatory requirements of major regulators and Asia Pacific region 	Mr Jin Shun Head, Regulatory Affairs APMA Sandoz
3.00pm	Refreshment Break	
3.30pm	 Challenges in regulatory management of generics Different dosage forms Divergence in requirements Infringement of patents and IP 	
4.15pm	Networking	
5.00pm	End	





Day 2 - 10 May, Tue

	Topic	Speaker/ Organisation
9.00am	Individual and Group assessment I	
10.00am	Refreshment Break	
Session 2	: Quality Requirements and Assessment of Generics	
10.30am	Guidelines and regulatory requirements for quality aspects of generics	
11.15am	 In-Vitro Dissolution studies Utility of dissolution studies for assessment of generics Design and dissolution procedures 	Ms Leanne Cornell Senior Evaluator Pharmaceutical Chemistry Section Scientific Evaluation Branch Medicines Regulation Division Therapeutic Goods Administration (TGA), Australia Ms Ji Wenjie Pharmaceutical Chemistry Section Scientific Evaluation Branch Medicines Regulation Division Therapeutic Goods Administration (TGA), Australia
12.30pm	Lunch	
1.30pm	 In-Vitro Dissolution studies (cont'd) Dissolution conditions for various dosage forms, including modified release 	Ms Leanne Cornell Ms Ji Wenjie TGA
2.15pm	Briefing for Practicum 1	
2.30pm	Refreshment Break	
3.00pm	Practicum 1	
	 Evaluation of quality data for regulatory approval 	
4.30pm	Group presentation and Discussion for Practicum 1	
5.30pm	End	





Day 3 - 11 May, Wed

	Topic	Speaker/ Organisation
9.00am	Individual and Group assessment II	
10.00am	Refreshment Break	
Session 3	: Clinical Requirements and Assessment of Generics	
10.30am	Guidelines and regulatory requirements for clinical aspects of generics	Dr Jan Welink Senior Clinical Assessor Dutch Medicines Evaluation Board (MEB), Netherlands
11.00am	Assessing Bioavailability and Bioequivalence (BABE) Study Designs Evaluation of BABE, including modified release dosage forms	Dr Jan Welink MEB
12.30pm	Lunch	
1.30pm	 Bioanalytical studies for assessing BABE Standards, calibration and controls Methods and Validation 	Dr Jan Welink MEB
2.15pm	Briefing for Practicum 2	
2.30pm	Refreshment Break	
3.00pm	Practicum 2Assessment of BABE data for regulatory approval	
4.30pm	Group presentation and Discussion for Practicum 2	
5.30pm	End	





Day 4 - 12 May, Thurs

	Topic	Speaker/ Organisation
9.00am	Individual and Group Assessment III	· · · · · · · · · · · · · · · · · · ·
10.00am	Refreshment Break	
Session 4	: Advanced Approaches and Different Dosage Forms	
10.30am	Overview of dosage forms in generic medicines development	Dr Henrike Potthast Biopharmaceutics Expert Pharmacokinetics Federal Institute for Drugs and Medical Devices (BfArM) Germany
11.00am	 Approaches and challenges for different dosage forms Orodispersible tablets Transdermal patches and topicals Inhalers and nasal sprays Depot injections 	Dr Henrike Potthast BfArM
12.30pm	Lunch	
1.30pm	 BCS-based Biowaivers Guidelines and recommendations Technical and documentary requirements 	Dr Henrike Potthast BfArM
2.15pm	Briefing for Practicum 3	
2.30pm	Refreshment Break	
3.00pm	Practicum 3BCS waivers to support regulatory decisions	
4.30pm	Group presentation and Discussion for Practicum 3	
5.30pm	End	





<u>Day 5 – 13 May, Fri</u>

	Topic	Speaker/ Organisation	
9.00am	End-of-Module (EOM) Assessment		
10.00am	Review of EOM Questions		
10.30am	Break		
Session 5: Improving the Regulatory Management of Generics			
11.00am	 Contemporary issues in generic medicines development Patent enforcement and Intellectual Property Trends in generics product developments 	Dr Stefanie Amend-Mall Global Program Lead, CN and APAC Sandoz Small Molecules Product Development Sandoz	
11.45am	ACSS Consortium – Regional Collaborations for Generics	Dr Michael Harding Principal Evaluator Pharmaceutical Chemistry Section Scientific Evaluation Branch Medicines Regulation Division Therapeutic Goods Administration (TGA), Australia	
12.30pm	Lunch		
1.30pm	Case Discussion Considerations for Sampling		
2.30pm	Case Discussion Sampling and Regulatory actions for quality deviations of generics		
3.30pm	Break		
4.00pm	Business and regulatory strategy for developing generics	Dr Krishna Prasad Abbott	
4.45pm	Graduate Certificate Workshop Conclusion	A/Prof Silke Vogel Deputy Director, CoRE Senior Associate Dean Graduate Studies Duke-NUS Medical School	
5.00 pm	End		