

GRADUATE CERTIFICATE IN PHARMACEUTICAL REGULATION GMS5003: Fundamentals of Health Products Regulation

15 – 19 September 2025

Venue: Training Room 5C (Level 5),

Duke-NUS Medical School, 8 College Rd, Singapore 169857

Please note that the venue will be relocated to Room 3D (Level 3, Duke-NUS Medical School) only for 16 September 2025 (Tuesday).

WORKSHOP PROGRAMME

Learning outcomes

- Explain the foundational basis of regulatory management and decision-making for health products
- Explain the essential principles in managing pharmaceuticals across their life cycles
- Describe the regulatory requirements for the different product development phases
- Relate to the real-life settings in regulatory decision-making through hands-on practical sessions
- Recognize the major regulatory organisations steering the innovation of regulatory processes and focus



Graduate Certificate in Pharmaceutical Regulation GMS5003: Fundamentals of Health Products Regulation

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Day 1 – 15 September 2025, Mon

	Topic	Speaker/ Organisation
Session 1	1: Overview of Pharmaceutical Development, Regulation	ns & Commercialisation Strategies
	Introduction to Pharmaceutical Regulations- A Regulator's Perspective	Prof John Skerritt Former Deputy Secretary
	 Purposes & Scope of regulation 	Health Products Regulation, Australian
	Role of regulation in healthcare systems	Department of Health and Aged Care
	Evolution of regulatory frameworks	Enterprise Professor in Health Research
	Regulatory convergence	Impact, University of Melbourne, Australia
	Regulatory cooperation/ reliance	Adjunct Professor, Faculty of Medicine and
	HTA and patient perspectives	Health, University of Sydney, Australia
9.15 am	Welcome Graduate Certificate Students	Dr Rathi Saravanan
o. ro am	Troiseine Graadate Germieute Gradeine	Lead Education Associate
		Lead, Graduate Certificate Programme
		Centre of Regulatory Excellence (CoRE)
		Duke-NUS Medical School
9.45 am	Workshop Briefing	Dr Uttara Soumyanarayanan
		Senior Education Associate
		CoRE, Duke-NUS Medical School
10.00 am	Brightspace and Assessment Familiarization	Mr. Osman Bin Mohamad
		Senior Education Associate
		CoRE, Duke-NUS Medical School
10.40 am	Photo-taking with Participants & Faculty	CoRE Education Team
10.45 am	Refreshment Break	
11.00 am	Regulatory Processes Across Pharmaceutical	TBD
	Products Lifecycle – Industry Perspective	
	 Role of industry in supporting product life 	
	cycle management	
	Different regulatory pathways across market	
	Country-specific requirements	
	Novel health products	
	Optimising engagement with regulators Ohallanasa for industry	
12.30 pm	Challenges for industry Lunch	
•		Ms Sandy Chan
1.30 pm	Regulatory landscape in ASEAN region	Associate Director, Asia Pacific Regulatory Policy
	Broad overview of ASEAN NRAs and their scope of	& Intelligence Lead, The Janssen Pharmaceutical
	regulation: focus on HSA, NPRA, BPOM	Companies of Johnson & Johnson
	Initiatives like ASEAN PPWG, Joint Assessment,	Companies of Confiscin & Confiscin
0.45	Pharmaceutical Regulatory Framework (APRF)	Marthaga Can (TO) I O
2.15 pm	Role of stakeholder interactions for effective	Mr Thean Soo (TS) LO
	regulatory decision making	Independent Consultant
	Pre-consultations in guiding development	TS Consulting
	Importance of stakeholder interactions in ensuring	
	SEQ of pharmaceutical products	
	 Role of regulatory professionals 	
2 00		
3.00 pm	Refreshment Break	
3.00 pm 3.15 pm	Commercialization strategies for pharmaceutical	Mr. Andy Li
_	Commercialization strategies for pharmaceutical products	Senior Executive
_	Commercialization strategies for pharmaceutical products Significance of TPP in product development and	Senior Executive NUS Enterprise
_	Commercialization strategies for pharmaceutical products	Senior Executive





5.30pm	End of Day 1	
5.15 pm	Debrief and Announcements	CoRE Education Team
	 Importance and impact of pharmaceutical quality on patient safety Pharmaceutical quality initiatives Key regulatory guidelines and requirements General practices in the industry providing quality assurance 	
4.15 pm	 Overview of Chemistry, Manufacturing and Controls Concept of pharmaceutical quality (PQ/CMC) 	Dr Rathi Saravanan CoRE, Duke-NUS Medical School
	2: Ensuring Quality, Safety and Efficacy of Pharmaceuti	
	 compliance in tech transfer Assessing the commercial potential of innovations and inventions Case examples 	
	commercialization and ensuring regulatory	





Day 2 - 16 September 2025, Tue

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	Topic	Speaker/ Organisation
8.30 am	Good Manufacturing Practices (GMP): Main Concepts • Failures in GMP • GMP history • Basic GMP requirements including definition and quality management	Ms Smitha Kenchath Consultant Seer Pharma (Singapore) Pte Ltd
9.30 am	Networking Session	Mr. Osman Bin Mohamad CoRE, Duke-NUS Medical School
10.00 am	Break	
10.45 am	Overview of Nonclinical requirements for pharmaceuticals Types of Nonclinical studies Data for FIH studies	TBD
11.45 am	Overview of Good Clinical Practice (GCP) requirements and clinical trial application (CTA) for pharmaceuticals • Principles of GCP • Key GCP guidelines (WHO/ICH/HSA) • CTA vs CTN	Dr Yeo Jing Ping Vice President, Clinical Operations & Head, Asia Pacific Precision for Medicine
12.30 pm	Lunch	
1.30 pm	 Overview of pharmaceuticals clinical development Phases of Clinical Trials Design of CT: inclusion exclusion criteria, endpoints 	Dr Yeo Jing Ping Precision for Medicine
2.30 pm	Practicum I Clinical development of pharmaceuticals	Dr Yeo Jing Ping Precision for Medicine
3.00 pm	Refreshment Break	
3.15 pm	Practicum I Continued	
5.15 pm	Debrief and Announcements	CoRE Education Team
5.30 pm	End of Day 2	





Day 3 – 17 September 2025, Wed

	Topic	Speaker/ Organisation
8.30 am	Individual and Group assessment I	
Session 4	Regulatory Processes for Pharmaceutical Products	
9.30 am	 Market Authorisation Application Requirements for MAA submission and review in select countries ICH CTD submission requirements 	Asst/Prof James Leong Head Health Products & Regulatory Science CoRE, Duke-NUS Medical School
10.30 am	Refreshment Break	
10.45 am	Regulatory requirements for regulatory decision making: Benefit-risk analysis Benefit-risk assessment for regulatory decision making	Asst/Prof James Leong CoRE, Duke-NUS Medical School
12.00 pm	Lunch	
1.00 pm	Practicum II Benefit-Risk Assessment of Pharmaceutical Products	Expert Faculty: Asst/Prof James Leong
3.30 pm	Refreshment Break	
3.45 pm	 Facilitated Regulatory Pathways with Case Examples Expedited pathways, accelerated Designations: Orphan, breakthrough Regulatory Cooperation Regulatory Agility Case Examples 	Prof Lawrence Liberti USC Mann School of Pharmacy and Pharmaceutical Sciences Director, The DK Kim International Center for Regulatory Science Associate Professor, Department of Regulatory and Quality Sciences
4.30 pm	 Good Registration Management (GRM) WHO GRevP (Good Review Practices) GSubP (Good Submission Practices) 	Mr Thean Soo (TS) LO TS Consulting
5.20 pm	Debrief and Announcements	CoRE Education Team
5.30pm	End of Day 3	





Day 4 - 18 September 2025, Thurs

	Topic	Speaker/ Organisation
Session 5	: Post-approval processes and product lifecycle managen	nent
8.30 am	 Managing post-approval quality changes Risk based approach to post-approval changes Reliance practices in post-approval CMC changes 	Ms Jacinta Watt, Director, Pharmaceutical Chemistry Variations Section, Therapeutics Goods Administration Australia
9.30 am	 GMP compliance, Audit and Inspections Types of GMP inspections Common GMP Inspection Findings GMP Audit Deficiencies 	Ms Smitha Kenchath Seer Pharma (Singapore) Pte Ltd
10.30 am	Refreshment Break	
10.45 am	Overview of Pharmacovigilance for Pharmaceutical Products Introduction to pharmacovigilance Appreciation of the pharmacovigilance framework Risk management plans and post-marketing activities	Dr Han Phey Yen Regulatory Consultant Vigilance & Compliance Branch Health Sciences Authority, Singapore
12.00 pm	Lunch	
1.00 pm	 Case Discussion I Risk management plans for pharmaceutical products 	Expert Faculty: Dr Han Phey Yen
2:45 pm	Refreshment Break	
3.00 pm	 Total Product Lifecycle (TPLC) management Potential issues during pre-market activities Potential issues during post-market activities Quality deviations & regulatory actions Assessing clinical impact 	Asst/Prof James Leong CoRE, Duke-NUS Medical School
4.00 pm	Case Discussion II Product deviations & levels of recall	Expert Faculty: Asst/Prof James Leong
5.15 pm	Debrief and Announcements	
5.30pm	End of Day 4	

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Day 5 - 19 September 2025, Fri

	Topic	Speaker/ Organisation
9.00 am	End-of-Module (EOM) Assessment	CoRE Education Team
10.00 am	Refreshment Break	
10.15 am	Review of EOM Questions	CoRE Education Team
Session 6	3: Trends in Health Products Development and Regulations	
11.00 am	 Introduction to Precision Health and Medicine Significance of biomarkers Strategies integrating drug & diagnostic development Challenges in the diagnostic development process 	Ms Valerie Mbella Director Global Regulatory Affairs Diagnostics, Johnson & Johnson Innovative Medicine
11.45 am	 Introduction to Health Technology Assessment HTA principles & process Technology evaluation & decision-making Examples 	Mr Mohamed Ismail ABDUL AZIZ Agency for Care Effectiveness
12.30 pm	Lunch	
1.30 pm	 Introduction to Healthcare Services Regulation Trending areas in healthcare landscape Service models and technologies in gene therapies Al in healthcare 	Asst. Prof. Kavitha Palaniappan Assistant Professor, Lead, Healthcare Services Regulation Group (HRG) CoRE, Duke-NUS Medical School
2.15 pm	 Gallery Walk: Target Product Profiling Development of TPP for different therapeutic areas Peer Evaluation 	Mr. Andy Li NUS Enterprise
3.45 pm	Break	
4.00 pm	Reflection and Peer Sharing	Dr. Rathi Saravanan CoRE
5.00 pm	Graduate Certificate Workshop Conclusion End of Workshop	Prof Silke Vogel Deputy Director, CoRE Senior Associate Dean Graduate Studies Duke-NUS Medical School
J.JU PIII	End of Workshop	

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