





RADUATE CERTIFICATE IN PHARMACEUTICAL REGULATION

GMS5011 Fundamentals of Pharmaceutical Regulation

2 to 6 September 2019

Venue: Grand Copthorne Waterfront Hotel, Singapore

WORKSHOP PROGRAMME

Learning outcomes

- Describe the design and operational attributes of different phases of clinical trials
- Apply relevant regulatory guidelines in marketing authorization of pharmaceutical products
- Explain basic principles of pharmacokinetic and statistical analyses as relevant to assessing benefit-risk ratio and regulatory decision-making for approval of pharmaceutical products.
- Explain the ethical, legal and regulatory aspects of design and conduct of clinical trials.
- Distinguish clinical trial design and statistical analysis between multi-regional clinical trials and domestic clinical trials.

Fundamentals of Pharmaceutical Regulation Course (2 – 6 September 2019)





Graduate Certificate in Pharmaceutical Regulation GMS5011: Fundamentals of Pharmaceutical Regulation

2 – 6 September 2019

<u>Day 1 – 2 Sep, Mon</u>

	Торіс	
8.30am	Registration	
9.00am	Opening of Graduate Certificate Programme	Prof John Lim Executive Director Centre of Regulatory Excellence (CoRE) Duke-NUS Medical School
9.10am	Workshop Briefing	Asst Prof James Leong Head, Pharmaceutical Regulatory Science Programme, CoRE Duke-NUS Medical School
9.30am	 Introduction to Pharmaceutical Regulation Role of regulatory agencies in the past, present and the future. Regulators as "gate keeper" but also an "enabler" 	Dr Tomas Salmonson Partner Consilium Salmonson & Hemmings; Former Chair Committee for Medicinal Products for Human Use (CHMP), European Medicines Agency
10.15am	Break	
10.45am	 Regulatory Landscape International collaboration, including ICH and the development within EU over the last 30-40 years and looking forward New innovations (e.g. gene therapies) challenging the "standard" way of product development (RCT vs single arm trials, real world data etc). 	Dr Tomas Salmonson
11.30am	Regulatory Requirements in the Non-clinical Development	Adj A/Prof Cynthia Sung Visiting Expert, CoRE Duke-NUS Medical School
12.30pm	Lunch	
1.30pm	Conduct of Clinical Trials and Good Clinical Practice	Dr Yeo Jing Ping Director Research Integrity, Compliance and Ethics Singapore Health Services Ptd Ltd (SingHealth)
2.15pm	Regulatory Requirements in the Early-phase Development	Adj A/Prof Cynthia Sung Visiting Expert, CoRE Duke-NUS Medical School
3.00pm	Break	
3.30pm	Manufacturing and Inspection Processes	Mr Ehab Taqieddin Head, APAC International Operations Roche Singapore Pte Ltd

Fundamentals of Pharmaceutical Regulation Course (2 - 6 September 2019)





4.30pm	Pharmaceutical Regulation in the Healthcare Context (remote presentation)	Dr Murray Lumpkin Deputy Director Integrated Development & Lead for Global Regulatory Systems Initiatives Bill & Melinda Gates Foundation
5.15pm	Q&A	
5.45pm	End	

Fundamentals of Pharmaceutical Regulation Course (2 – 6 September 2019)





<u>Day 2 – 3 Sep, Tue</u>

	Торіс	
8.30am	Individual and Group Assessment 1	
9.30am	Introduction to Practicum	Dr Andrew Green
10.00am	 Practicum 1: Non-clinical & Early-phase Development CTD (Mod 2 & 4) - Identify the types of non-clinical studies for a given drug candidate and discuss their purpose and design. Justify why these studies essential. To find guidelines and related resources Peer review of task by different teams 	
10.30am	Break	
11.00am	Practicum 1: Cont'd	
1.00pm	Lunch	
2.00pm	Regulatory Requirements in the Late-phase Development	Asst Prof James Leong Head, Pharmaceutical Regulatory Science Programme, CoRE Duke-NUS Medical School
2.45pm	Marketing Authorisation Application	Asst Prof James Leong Head, Pharmaceutical Regulatory Science Programme, CoRE Duke-NUS Medical School
3.30pm	Break	
4.00pm	Good Reliance Practice	Dr Lim Sok Bee Senior Associate, CoRE Duke-NUS Medical School
5.00pm	End	

Fundamentals of Pharmaceutical Regulation Course (2 – 6 September 2019)





<u>Day 3 – 4 Sep, Wed</u>

	Торіс	
8.30am	Individual and Group Assessment 2	
9.30am	 Practicum 2: Late-phase Development CTD (Mod 2, 3, 5) - Design a phase II/III registrational clinical trial for a specific pharmaceutical product and determine the various evaluation parameters (primary and secondary endpoints, markers) for the desired clinical uses/ indications Peer review of task by different teams 	
10.30am	Break	
11.00am	Practicum 2: Cont'd	
1.00pm	Lunch	
2.00pm	Pharmaceutical Post-Approval Requirements	Dr Cecilia Chia GPS Regional Head of APAC Global Patient Safety, Biopharma Merck Pte Ltd
2.45pm	Post-Market Activities and Compliance	Mr Ramesh Raj Regional Manager, Asia Pacific Pharmaceutical Security Institute, Singapore
3.30pm	Break	
4.00pm	Advertisement and Promotion of Pharmaceuticals	Ms Ng Ying Lu Senior Regulatory Specialist Medical Advertisements and Compliance Vigilance & Compliance Branch Health Sciences Authority, Singapore
5.00pm	End	

Fundamentals of Pharmaceutical Regulation Course (2 – 6 September 2019)





Day 4 – 5 Sep, Thurs

	Торіс	
8.30am	Individual and Group Assessment 3	
9.30am	 Practicum 3: Marketing Authorisation & Post-approval Activities CTD (Mod 2, 3, 4, 5) – from the previous Practicums to determine outcome of marketing authorisation application 	
10.30am	Break	
11.00am	Practicum 3: Cont'd	
1.00pm	Lunch	
2.00pm	Pharmaceutical Marketing of New Products	Mr Arun Mishra Executive Vice-President Regulatory Affairs GSK Consumer Healthcare India
2.45pm	Case Studies in Pharmaceutical Marketing: Generics and Biosimilars	Mr Fabio La Mola Partner and Executive Director Asia-Pacific Life Sciences Centre of Excellence L.E.K. Consulting, Singapore
3.30pm	Break	
4.00pm	The Role of the Regulator/Regulatory Affairs Manager	Mr Wong Kum Cheun Head, Asia Pacific Regulatory & Development Policy, Novartis Asia Pacific Pharmaceuticals Pte Ltd
4.30pm	Q&A	
5.00pm	End	

Fundamentals of Pharmaceutical Regulation Course (2 – 6 September 2019)





<u> Day 5 – 6 Sep, Fri</u>

	Торіс	
8.30am	Preparation for assessment	
9.30am	End-of-Module Assessment	
10.30am	Break	
11.00am	Q&A	
12.00pm	Global and Regional Regulatory Platforms	Mr Neo Cherng Yeu Associate Director, Strategic Engagement, CoRE Duke-NUS Medical School
12.30pm	Good Regulatory Management and Professional Development	Asst Prof James Leong Head, Pharmaceutical Regulatory Science Programme, CoRE Duke-NUS Medical School
1.00pm	Lunch	
2.00pm	Current Trends in Pharmaceutical Regulation	Mr Arun Mishra Executive Vice-President Regulatory Affairs GSK Consumer Healthcare India
2.45pm	Regulatory Excellence	Prof John Lim Executive Director Centre of Regulatory Excellence (CoRE) Duke-NUS Medical School
3.30pm	Break	
4.00pm	Closing Remarks	Prof John Lim Executive Director Centre of Regulatory Excellence (CoRE) Duke-NUS Medical School
5.00pm	End	

Fundamentals of Pharmaceutical Regulation Course (2 – 6 September 2019)