

### GRADUATE CERTIFICATE IN PHARMACEUTICAL REGULATION

#### GMS5116 Post-Market Activities for Pharmaceuticals

13 - 17 April 2026

Venue: White Space Room (Level 2), Academia, 20 College Road, Singapore 169856

#### **WORKSHOP PROGRAMME**

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#### Learning outcomes

At the end of this workshop, participants should be able to

- Summarise the role and importance of risk-management and pharmaceutical quality management systems in post-market activities
- Explain the role of good manufacturing practices (GMP) and good storage and distribution practices (GSDP) in safeguarding the quality of pharmaceutical products across the product lifecycle
- Describe the post-market surveillance and enforcement activities to monitor and ensure the quality and safety of pharmaceutical products
- Describe the pharmacovigilance frameworks, its operations and standards, as well as the application of life cycle approach
- Apply concepts of critical thinking for regulatory decision-making in pharmacovigilance

#### **Target Audience**

 Early to mid-career professionals: regulatory affairs professionals in pharmaceutical companies, healthcare professionals, academic researchers in life sciences and regulators in national (health/drug) regulatory authorities.



# **Graduate Certificate in Pharmaceutical Regulation**

### **GMS5116 Post-Market Activities for Pharmaceuticals**

13 - 17 April 2026

## Day 1 – 13 April, Mon

Time	Topic	Speaker/Organisation
8.00am	Registration	
8.30am	Welcome and Workshop Briefing	Dr Rathi Saravanan Lead Education Associate Lead, Graduate Certificate Programmes Centre of Regulatory Excellence (CoRE) Duke-NUS Medical School
9.15am	Team introductions/Bright Space and Assessment Familiarisation	CoRE Education Team
	: Ensuring pharmaceutical product quality across supply chain-	Supporting Best Practices and
Systems		A 15 (1 )
9.30am	Role and importance of Pharmacovigilance in Post-market	Asst Prof James Leong Head, Health Products and Regulatory Science Centre of Regulatory Excellence (CoRE) Duke-NUS Medical School
9.50am	Introduction to Risk Management and compliance in post- market activities	Dr Rathi Saravanan Centre of Regulatory Excellence
	<ul> <li>Risk Management (RM) principles and methodology</li> <li>Risk assessment tools</li> <li>QMS Elements and standards (ICH Q10)</li> <li>Role of RM and QMS in achieving quality compliance across supply chain</li> </ul>	(CoRE) Duke-NUS Medical School
10.15am	Tea Break	
10.30am	Good Manufacturing Practices (GMP) in quality assurance of pharmaceuticals  GMP Principles Types of GMP inspections Risk-based categorisation of deficiencies Specific product deficiencies (e.g., Biologics, CTGTPs)	TBC
11.15am	Being GMP Compliant: Operational considerations, planning and preparation for post-approval inspections	TBC
12.00pm	<ul> <li>Proactive compliance &amp; Inspection readiness</li> <li>Approaches and systems supporting inspection</li> <li>Roles and responsibility of management</li> </ul> Lunch	





1.00pm	Overview of Good Storage Distribution Practice in supply chain integrity of medicinal products  Importance of GSDP  Best practices and principles on GSDP  Case examples needs and Challenges in vaccine Cell & Gene therapy supply chain  Enhanced Safety monitoring measures	ТВС
1.45pm	<ul> <li>Maintaining a secure pharmaceutical supply chain</li> <li>Threats and Challenges</li> <li>Supply chain security measures</li> <li>Handling of supply chain security breaches</li> <li>Detection technologies with focus on suspected substandard and falsified pharmaceutical products</li> </ul>	TBC
2.30pm	Root Cause Analysis and CAPA: An Overview	Asst Prof James Leong Centre of Regulatory Excellence (CoRE) Duke-NUS Medical School
3.00pm	Tea Break	
3.15pm	Case Discussion: CAPA	CoRE Education Team
5.15pm	Debrief	
5.30pm	End	





### Day 2 - 14 April, Tue

Time	Topic	Speaker/Organisation
8.00am	Registration	
Ossaisa O	. Francisco about a series la construction de la co	
	: Ensuring pharmaceutical product quality and supply chain - Post medicinal products	-market surveillance activities for
8.30am	Pharmaceutical quality surveillance in Singapore	TBC
o.ooa	Purposes	.50
	Sampling criteria	
	Laboratory testing	
	2 Edbordtory toothing	
9.15am	Reporting of therapeutic product defects and recall	TBC
	<ul> <li>Classification of product quality defects</li> </ul>	
	<ul> <li>Level of recalls</li> </ul>	
	<ul> <li>Investigation, corrective and preventive actions</li> </ul>	
10.00am	Tea Break	
10.15am	Practicum I: Management of pharmaceutical product quality	Content Experts CoRE Education Team
	surveillance for out-of-specifications (OOS) and product quality defects	CORE Education Team
	uelects	
12.30pm	Lunch	
1.30pm	Practicum I (continued)	
	,	
Session 3	: Ensuring pharmaceutical product quality and supply chain secur	ity – Surveillance activities for
	it, Substandard and Falsified medicinal products	
2.00pm	Trend Observation on Counterfeits (CF), Substandard and	TBC
	Falsified (SF) Medicines in the Asia-Pacific Region	
	What are CF and SF medicines	
	Magnitude of issues worldwide	
	Hot spot areas in the Asia-Pacific region and the contributory	
	factors	
	Impact of CF and SF medicines to public health	
	<ul> <li>Strategies to combat existing and emerging SF and illegal sales</li> </ul>	
	threat	
3.00 pm	Tea Break	
3.15pm	Case Discussion: Detection of SF medicinal product	CoRE Education Team
5.15pm	Debrief	
E 20	End	
5.30pm	End	





### Day 3 - 15 April, Wed

Time	Topic	Speaker/Organisation
8.00am	Registration	
	Pharmacovigilance Systems and Signal detection	
8.30am	Individual and Group Assessment	CoRE Education Team
9.30 am	Overview of a National Regulatory Authority's pharmacovigilance	e system: TBC
	An ASEAN country's perspective	
10.30am	Tea Break	
10.30am	Methodologies in ADR Reporting	Dr Shabnam Sharan
10.43aiii	Reporting systems	Assistant Director
	• ICSR	Adverse Events & Medicine Defects
	Limitations of data sources	Section
	Elimitations of data sources	Medicines Regulation Division,
		Health Products Regulation Group
		Pharmacovigilance Branch
		Australian Government Department
		of Health, Australia
11.30am	Evaluation of Pharmacovigilance data	Dr Shabnam Sharan
111000	Statistical signal detection	Pharmacovigilance Branch
	Causality assessment and definitions	Australian Government Department
	Case series evaluations	of Health, Australia
	Signal and trends - Signal detection, validation and confirmation	,
12.30 nooi	1 Lunch	
1.30pm	Case Discussion: Causality Assessment and Signal Detection	Dr Shabnam Sharan
1.00piii	Ouse Discussion. Outstanty Assessment and Signal Detection	Pharmacovigilance Branch
		Australian Government Department
		of Health, Australia
3.00 pm	Tea Break	
Session 5	Benefit-Risk Assessment	
3.15 pm	Benefit-Risk Assessment for Pharmacovigilance	TBC
-	General Principles and Limitations	
	Source of safety data through product lifecycle	
	Benefit-Risk Assessment: Points to consider	
4.00 pm	Case Discussion: Benefit-risk assessment	
·	Apply a multi-criteria approach to benefit-risk profiling	CoRE Education Team
	Articulate the basis of the benefit-risk decision	
5.15 pm	Panel Discussion Preparation	
E 2010	End	
5.30pm	End	





# Day 4 - 16 April, Thur

Time	Topic	Speaker/Organisation
8.00am	Registration	
Session 6	: Risk Management and Risk Communication	
8.30am	<ul> <li>Risk Management Planning</li> <li>Principles of Risk Management Planning</li> <li>Routine and Additional risk minimisation methods</li> <li>Elements to consider for deciding and selecting risk minimization methods</li> <li>Planning to address gaps in knowledge</li> </ul>	<b>Dr Shabnam Sharan</b> Pharmacovigilance Branch Australian Government Department of Health, Australia
9.30am	Practicum II: Adapting RMPs to different healthcare systems in ASEAN	
10.00am	Tea Break	
10.15am	Practicum II (continued)	<b>Dr Shabnam Sharan</b> Pharmacovigilance Branch Australian Government Department of Health, Australia
12.30pm	Lunch	,
1.30pm	Approaches in Risk Communications	TBC
2.15pm	Post-approval product safety and regulatory actions <ul><li>Pharmacovigilance Audits and Inspections</li><li>Dealing with non-compliance</li><li>Common inspection findings</li></ul>	TBC
3.00pm	Tea Break	
3.15pm	Case Discussion: PV Inspection	CoRE Education Team
5.15pm	Debrief	
5.30pm	End	
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### Day 5 - 17 April, Fri

Time	Topic	Speaker/Organisation
8.30am	Registration	
9.00am	End-of-Module (EOM) Assessment	CoRE Education Team
10.00am	Tea Break	
10.15am	Discussion for EOM	CoRE Education Team
Session 7	: Trending topics in Pharmacovigilance and Pharmaceutical Surve	illance
10.45am	Role of Pharmacogenomics in Pharmacovigilance of medicinal products	TBC
11.30am	Lunch	
12.30pm	Utility of Real-World Data and Evidence in Pharmacovigilance	TBC
1.15pm	Importance of Patient Engagement in Pharmacovigilance	Asst.Prof. Khoo Yoong Khean Centre for Outbreak Preparedness Singhealth Duke-NUS Global Health Institute (SDGHI)
2.00pm	Capacity building for resilient supply chains  • Global and LMIC Case examples	TBC
2.45pm	Regulatory systems strengthening for supply chain integrity and security	TBC
3.30pm	Tea Break	
3.45pm	Panel discussion	Panellist:
		<u>Moderator</u>
5.00pm	Workshop Conclusion	Prof Silke Vogel Senior Associate Dean Graduate Studies Deputy Director Centre of Regulatory Excellence Head Centre for Lifelong Learning Duke-NUS Medical School
5.30 pm	End	