

Validation and Verification of In Vitro Diagnostics (IVD) and Software as a Medical Device (SaMD)

23-24 March 2023

WORKSHOP PROGRAMME

In today's digital world, technologies and software play an increasingly important role in healthcare management - diagnosis, treatment, patient monitoring and Real World Data collection. This course aims to better understand the regulatory perspectives and standards expected for a commercially approved health product, including risk assessment and mitigation plans. This will aid in the development, market entry and utility of IVDs and SaMDs.

Learning Outcomes

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

- Explain the key processes required for successful development of In Vitro Diagnostics (IVD) and Software as a Medical Device (SaMD)
- Articulate the importance of the verification and validation stages for IVD and SaMD

Target Audience

Product developers, entrepreneurs and investors with interest in diagnostics, and Academia looking to understand how to take their lead R&D concept through verification and validation to product registration and transfer to GMP manufacturing.





Validation and Verification of IVD and SaMD

Duke-NUS Medical School

23 - 24 March 2023

Day 1 (23 Mar 2023)

Time	Agenda	Speaker/ Facilitator
8.00am	Registration	
8.30am	Welcome address	CoRE
8.40am	Workshop briefing	Dr Rahul Pandey Outreach & Talent Development Diagnostics Development Hub (DxDHub) Dr John Thornback Senior Advisor DxDHub
8.50am	Photo taking session	
9.00am	Recap on Design and Development and Total Product Lifecycle	Dr John Thornback Senior Advisor DxDHub
9.30am	Regulatory submission requirements Essential principles Clinical & Laboratory Standards Institute (CLSI) guidelines for IVD and SaMD	Ms Jayashree Chandrasekaran Regulatory Affairs Manager DxDHub
10.30am	Break	
10.45am	ISO14971 and Risk Management	Ms Tan Hwee Ee Founder and Director DH RegSys Private Limited
11.30am	Design verification & analytical validation requirements	Dr Lin You Bin Senior Manager, Biomedical Project DxDHub Mr Henry Johnson Susainathan
		Senior Manager DxDHub
1.00pm	Lunch	
2.00pm	Pilot manufacturing	Dr Lin You Bin Mr Henry Johnson Susainathan DxDHub
2.45pm	Break	
3.00pm	<u>Case discussion 1</u> Populating the Essential Principles Templates	Dr John Thornback Dr Rahul Pandey DxDHub
5.00pm	Wrap Up and Lessons Learnt	Dr John Thornback Dr Rahul Pandey DxDHub
5.30pm	End of Day 1	





Day 2 (24 Mar 2023)

Time	Agenda	Speaker/Facilitator
8.00am	Registration	
8.30am	SaMD development guidelines IEC62304	Mr Harold Goh Product Development Engineer DxDHub
9.15am	Clinical performance evaluation	Dr John Thornback Mr Henry Johnson Susainathan DxDHub
10.15 am	Break	
10.30am	QC protocol refinement	Dr John Thornback Senior Advisor DxDHub
11.30am	Design and Development File Structure	Ms Jessica Yap QARA DxDHub
12.30 pm	Lunch	
1.30pm	Manufacturing transfer	Ms Tan Hwee Ee Founder and Director DH RegSys Private Limited
2.15pm	Case discussion 2 Populating the Essential Principles Templates	Dr John Thornback Dr Rahul Pandey DxDHub
3.15pm	Break	
3:30pm	Case discussion 2 (Cont'd)	Dr John Thornback Dr Rahul Pandey DxDHub
4.15pm	Quiz	Dr John Thornback Dr Rahul Pandey DxDHub
5.00pm	Closing remarks with Lessons Learnt	Dr John Thornback Dr Rahul Pandey DxDHub
5.30pm	End of Day 2	