



Programme Schedule

	PERSON: Jack Wong, Asia Regulatory and Professional Association (Biopolis Street, Singapore 138671
Time	Topics	Speakers
0830	Registration	
0900	Opening	 Wong Kia Ngee, Temasek Polytechnic May Ng, ARQon
0915	 Global development and Harmonization of the medical device regulations Overall regulations, directives, guidelines IMDRF, AHWP, ASEAN MDD, EU, US, Canada, Japan, Australia Definition and risk classification of Medical Device, IVD, Drug and Combination product Product lifecycle from research to commercialization 	Jack Wong, Asia Regulatory and Professional Association (ARPA) /Allergar
0945	ASEAN medical device regulatory requirements • Establishment registration: Manufacturer, Importer, Distributor, Authorised Representative • Product registration & Other access routes	 May Ng, ARQon ASEAN Regulators
1045	Tea Break	
1100	Panel discussion: ASEAN regulators	Moderator: • Audrey Lee, Invisalign Singapore / Singapore Manufacturing Federation's Medtech Industry Group (SMF's MTIG) • ASEAN Regulators
1130	 Panel discussion: The role of Industry Associations and partners in regulatory convergence and healthcare improvement The effective network of industry associations across the ASEAN, ASIA, EU, US, GLOBAL The importance of association's role for its stakeholders i.e. local industry and the national authorities/agencies. 	Moderator: • Duc Duong, Edward LifeSciences / Singapore Manufacturing Federation's Medtech Industry Group (SMF's MTIG) • Jacqueline Monteiro, Regulatory Affairs Professionals Society (RAPS) • May Ng, ASEANMed • Ruth Shennan, Medical Technology of Australia (MTAA)
1200	Lunch	
1300	Asia regulatory requirements • China Asia regulatory requirements • Taiwan ROC	 Dazhi (ex-CFDA/NMPA), ARQon China Albert Li, Industrial Technology Research Institute (ITRI)





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1345	Asia regulatory requirements • India	• Sreenu Babu, Cardinal Health
1405	Asia regulatory requirements • Japan	• Jack Wong, Asia Regulatory and Professional Association (ARPA) /Allergan
1430	Asia Pacific regulatory requirements & Reimbursement Australia & NZ What is Reimbursement & technology coding being paid of 	Ruth Shennan, Device Technologies
1500	Product/Process Changes • Managing changes and Impact	• Yenny Anggoro, Stryker
1520	Asia regulatory requirements - Differences Medical Device, IVD Key highlights differences between Medical Device and IVD registration	• Nashata Isa, Qiagen
1540	Tea Break	
1555	MDR CE mark regulatory requirements – Introduction & Conformity assessment Routes • MDD and the New MDR, Other related Directives eg Combination products • Conformity assessment routes for CE Marking • Post Market: Vigilance, PMCF, PSUR • Further changes eg Eudamed, Clinical Evaluation	• Moira Lim, TUV SUD
1615	 IVDR CE mark regulatory requirements – Introduction & Conformity assessment Routes IVDD and the New IVDR Conformity assessment routes for CE Marking Post Market: Vigilance, PMPF, PSUR Further changes in EU eg Companion diagnostic 	• Ooi Xi Jia, TUV SUD
1635	CE mark regulatory requirements – Technical Documentation • Contents of a Technical documentation • Reviewing the Essential requirements • The use of relevant standards	• May Ng, ARQon
1655	US FDA regulatory requirements • 510(k), PMA and other submissions • US QSR Quality system and inspections • Warning letters and key lookout	 Albert Li, Industrial Technology Research Institute (ITRI) Michael Bjornstad, ARQon US
1725	Regulatory Controls on • Wireless medical device • Radiation medical device	 Salamah Hashim, Infocomm Media Development Authority (IMDA) May Ng, ARQon
1745	Global Regulatory strategy & FAQs • Start-ups getting first approval • Manufacturer penetrating Asia • Manufacturer transitions to CE MDR/IVR	 May Ng, ARQon Heikki Pitkanen, Lean Entries Finland
1815	Quiz	
1830	End of Day 1	







Programme Schedule

Mark C Choi Kv	PERSON: hong, Agency for Science, Technology and Research (A*STAR)'s Sing vok Keong, Standards Development Organisation (SDO) er Hwa, National Health Innovation Centre (NHIC)	NAGEMENT, CLINICAL 1 Slim Barracks Rise, S138664 gapore Biodesign
Time	Topics	Speakers
0900	Singapore Biodesign Introduction	 Mark Chong, Agency for Science, Technology and Research (A*STAR)'s Singapore Biodesign
0915	Quality Management System - Importance of QMS and Risk management • Why need QMS? • What are the key QMS: ISO/EN ISO 13485:2016, MDSAP, US QSR, EU Conformity • How risk management fits with the product lifecycle, ISO 14971:2012	• Eamonn Hoxey, Association for the Advancement of Medical Instrumentation (AAMI)
)945	Quality Management System - Design Control • Design control requirements • Elements in Design History File • Expectation of the certification body	• May Ng, ARQon
1015	Design Thinking Process • Concept brainstorming & Value proposition • Early validation through feasibility • Project management	• Mark Chong, Agency for Science, Technology and Research (A*STAR) 's Singapore Biodesign
1045	Tea Break	
1100	Standards Development Organization Introduction	Choi Kwok Keong, Standards Development Organisation (SDO)
1115	Electrical and Electromagnetic testing • IEC60601, IEC61010	• Zhuo Guoping, Underwriters Laboratory (UL)
135	Software validation and Usability • IEC62304, IEC62366	Wang Jen-Chieh, Industrial Technology Research Institute (ITRI)
155	Cybersecurity & Data Protection	• May Ng , ARQon
215	Biocompatibility ISO10993	• Li Yang, TUV SUD
1235	Sterilization & Packaging validation	Eamonn Hoxey, Association for the Advancement of Medical Instrumentation (AAMI)



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1255	Lunch	
1355	Quality Management System - Production, Warehousing &Distribution• Cleanroom, Production and Validation• Product release and Quality Assurance• Supply chain management• Expectations of the certification body	• Heidi Goh, Edward Lifesciences
1425	Medtech Manufacturer's Quality Management System Set-up (ISO13485:2016, MDSAP, USQSR) • When you need QMS certification • What are the Steps for QMS set-up • Common industry challenges for QMS set-up	• Teo Siow Thing, ARQon
1455	Medtech Manufacturing Set-up & Challenges • Bill of Material • Production Floor • Lean Cost-Effective manufacturing • Other key considerations • Process Validation IQ/OQ/PPQ	 Colin Chong, ARQon US Michael Bjornstad, ARQon US
1525	Medtech Outsourcing Contract Manufacturing Contract Manufacturing Sourcing Vendor selection criteria and considerations Factor for success collaboration 	• Colin Chong, ARQon US
1545	 Medtech Manufacturing and Collaboration opportunities Sharing on manufacturing and collaboration opportunities Sharing on investment policy & business/manufacturing setup 	 Katherine Heng, Enterprise Europe Network (EEN) Daniela Radrizzani, Fidinam
1625	Tea Break	
1640	National Health Innovation Centre Introduction	• Teo Cher Hwa, National Health Innovation Centre, Singapore (NHIC)
1655	 Developing a clinical strategy What is clinical investigation/research When this is needed for medical devices How to plan and conduct clinical investigation properly What are the differences between clinical investigations and clinical evaluation? What are the differences for medical device, IVD and pharmaceutical clinical investigation 	 Ivanus Manopo, Singapore Clinical Research Institute (SCRI) Emily Tan, Paraxel International
1725	Panel discussion: Clinical needs, plan, approval and conduct	Moderator: • Teo Cher Hwa, National Health, Innovation Centre, Singapore (NHIC) • Ivanus Manopo, Singapore Clinical Research Institute (SCRI) • Emily Tan, Paraxel International
1815	Quiz	
	End of Day 2	







Programme Schedule

Time	Topics	Speakers
0900	Market trend and opportunities in Medtech	Howard Chai, Deloitte
0920	Medtech Market Access: Barriers & strategies Market strategy and Considerations for Product Launch 	Alok Mishra, Value Addition
0940	Medtech Marketing Approaches • Sales Model: Subsidiary, Direct Sales or Distributor • Product license holding rights	Shikharesh Das, Ontogenix
	Medtech Business One-Stop Service platform MedtechBOSS Network 	• David Lee, MedtechBOSS
1010	Healthcare software/apps & E-commerce • HealthTech Regulatory Sandbox • Are these product/service and its provider being controlled? Software/Apps for clinical service, Software for healthcare lifestyle, Online sales of medical device for commercial or	Ministry of Health (MOH) Jasmine Tan,
	ersonal use ◆ SMA eMarket	Bizzmann and Singapore Medical Association (SMA)
1040	Labelling • Labelling requirements: Product label, IFU (eIFU), brochure • Promotion and Advertisement • Challenges	• Kelvin Koh, Terumo
1100	Tea Break	
1115	 Intellectual Property: Patents, Trademarks & Liability Patenting strategies; timing and geographical coverage Product trademark Product liability/risk after sales 	• Ong Siew Hwa, Acumen
1135	Code of Ethics for Medical Device Industry • Key points in Code of Ethics policy for a Medtech company	Fiona Goh, Zimmer Biomet



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1155	 Profession job roles in Medtech Industry Sharing different Medtech roles How to select the right candidate. What is their skillset? Managing resources need 	• Colin Tan, Endomaster
1215	 Fund raising Value proposition Pitching dos and don't 	• Mark Wang, Pureland Global Venture
1235	Awareness on Government Funds & Support for Medtech Industry & Industry 4.0	• Gerald Wong, Singapore Manufacturing Federation's Centre for Corporate Learning (SMF's CCL) Singapore Manufacturing Federation's SME Centre (SMF's SME Centre)
1255	Lunch	
1355	Hospital procurement • Medical device procurement policy in hospital - Singapore	• Christopher Tay, Association for Persons with Special Needs (APSN), ex-COO Tan Tock Seng Hospital Singapore
	 Indonesia i.e. E-catalogue, manufacturing capabilities and investment policy 	• Kevin Widjaja, DEMKA Sakti / GAKESLAB / ASPAKI Indonesia
1330	UDI Barcode What is UDI and benefit of UDI for traceability Global landscape on UDI regulatory requirements 	 Andy Siow, Singapore Manufacturing Federation's GS1 (SMF's GS1)
1350	 Post-market surveillance overview What is Post Market Surveilance What to report and timeline for Vigilance Reporting Post-Market Clinical Follow up (PMCF) Handling Complaints, Adverse Event and FSCA 	• Joanna Koh, MDNet
1410	Quality Management System Set-up & Challenges for Importer & Distributor SS620, GDPMD in ASEAN • When you need GDP certification • What are the steps for GDP set-up • Common challenges for GDP set-up in ASEAN • GDP differences between device and pharmaceutical • Complaint and Vigilance handling • Expectations of the certification body	 Terry Song, Boston Scientific Stephen Hsu, Boehringer Ingelheim
1440	Quiz	
1500	End of Day 3	
1600	MEDTECH EXCHANGE NETWORKING EVENT (COMPLIMENTARY OPEN TO ALL MEDTECH INDUSTRY) VENUE: AUDITORIUM, LEVEL 2, MATRIX BUILDING (BIOPOLIS), 30 Biopolis Street, Singapore 138671	
	ORGANISED BY: ARQON, ASEANMed, SG INNOVATE, TEMASEK POLYTECHNIC	







Programme Schedule

	ERSON: Adrian Noel Danker, Temasek Polytechnic	
Time	Topics	Speakers
0900	 Medical Devices Development Function and characteristics of Electrodes and Transducers Design amplifiers and filters for medical applications. Relate the various methods of noise and Electromagnetic Interference (EMI) suppression. Build a Medical Device prototype of a physiological signal measurement system. 	 Mr Siew Loong, Temasek Polytechnic Mr Qian Xijun, Temasek Polytechnic
1015	Tea Break	
1030	 Genetic Engineering & Tissue Engineering Methods to produce different genetically modified organisms (GMOs) Applications of genetic engineering in biotechnology Laboratory management, quality assurance, laboratory automation, statistical methods and safety regulations practised in laboratories Stem Cells and Tissue Engineering Concepts of tissue engineering, stem cells, biomaterials and a review on extracellular matrix, topics on cell-cell and cell-matrix interactions at both the theoretical and experimental levels Clinical Chemistry Pathophysiological changes in disease and the application of clinical chemistry concepts for the diagnosis, prognosis, monitoring and screening of diseases 	• Dr. Ismail Muhamad Hanif, Temasek Polytechnic
1145	Lunch	
1245	3D Printing Technologies and Applications	• Mr Lee Khim Yong, Temasek Polytechnic
1345	Microfluidics Technologies and Applications	• Dr Fu Yi, Temasek Polytechnic
1445	Quiz	
1500	Travel to Manufacturing site / Tea Break JTC MedTech Hub, 2 Tukang Innovation Grove, S619624	
1600	Visit to JTC MedTech Hub's manufacturing sites: • Medical device: Implant and 3D printing	 Jurong Town Corporation (JTC) Osteopore
1800	Travel back to MRT train station	
1830	Course completion	

