



**ADB – CoRE Vaccine Seminar**  
**Fit-for-Purpose Vaccine Technologies:**  
**The Amalgamation of Science, Policy and Practice**  
**5 - 7 October 2023**  
**Amphitheatre, Duke-NUS Medical School**

**Day 1 – 5 October, Thursday**

Topic	Speaker/ Organisation
<b>8.30 am</b> <b>Registration</b>	
<b>9.00 am</b> <b>Welcome Speech by Asian Development Bank</b>	<b>Dr Sungsup Ra</b> Deputy Director General Sectors Group Asian Development Bank
<b>9.10 am</b> <b>Opening Remarks by Centre of Regulatory Excellence</b>	<b>Prof John CW Lim</b> Executive Director Centre of Regulatory Excellence Duke-NUS Medical School Singapore
<b>9.20 am</b> <b>Opening Remarks by Asian Development Bank</b>	<b>Dr Patrick L. Osewe</b> Director Human and Social Development Office Sectors Group, Asian Development Bank
<b>9.30 am</b> <b>Opening Speech by Minister of Health and Family Welfare, Bangladesh</b>	<b>Mr Zahid Maleque</b> MP, Honourable Minister Ministry of Health and Family Welfare Bangladesh
<b>9.40 am</b> <b>Keynote: Improving Equitable Vaccine Access in Developing Countries</b>  This Keynote Lecture provides context to the seminar and highlights the urgent need to improve vaccine manufacturing and access in low-resourced countries. Key challenges around vaccine equity are discussed, including global and regional efforts to facilitate vaccine manufacturing and access.	<b>Ms Alka Upadhyaya</b> Secretary Department of Animal Husbandry and Dairying (DAHD) Government of India
<b>10.00 am</b> <b>Tea Break</b>	
<b>Theme 1: Science of Vaccine Technologies</b>	
<b>Session Chair</b> <b>Asst. Prof Ruklanthi de Alwis</b> Deputy Director, Centre of Outbreak Preparedness Programme in Emerging Infectious Diseases Duke-NUS Medical School, Singapore	
<b>10.20 am</b> <b>Talk I: Science of Vaccination</b>  Talk 1 provides an overview of current and emerging vaccine technologies (including adjuvants), design and delivery systems. It covers the fit-for-purpose selection of vaccine technologies for different pathogen groups, considerations of human and animal vaccines and its implication to low-resourced countries.	<b>Prof Ooi Eng Eong</b> Professor Programme in Emerging Infectious Diseases Duke-NUS Medical School Singapore

*\*The programme and speakers are tentative and are subjected to changes before the actual event. Update as of 3 October 2023*



10.40 am	<b>Talk II: Vaccine Research &amp; Development</b>	<b>Dr Sushant Sahastrabudhe</b> Deputy Director General International Vaccine Institute Korea
<p>Talk II focuses on the vaccine development process, ranging from preclinical to efficacy trials. Innovations in clinical trials to accelerate vaccine development will be discussed including adaptive trials, human challenge studies, correlates of protection, animal rule etc. The talk will also address challenges and solutions of vaccine research &amp; development in low-resourced settings.</p>		
11.00 am	<b>Talk III: Vaccines for Outbreak Pathogens</b>	<b>Dr Ranna Eardley-Patel</b> Manufacturing and Supply Chain Chief of Staff (Acting) Coalition for Epidemic Preparedness Innovations (CEPI)
<p>Talk III shares insights on the technical aspects of accelerating vaccine development during outbreak situations as well as an introduction to CEPI's 100-day vaccine programme, and other global and regional efforts. The practicalities of implementing such accelerated vaccine research &amp; development efforts in low-resourced countries will also be discussed.</p>		
11.20 am	<b>Talk IV: Vaccine Affordability and Accessibility – South East Asia Focus</b>	<b>Mr Prasen Adya</b> General Manager Serum Institute of India India
<p>This session details the affordability and accessibility factors when it comes to developing vaccines with a focus on South East Asia.</p>		
11.40 am	<b>Panel Discussion</b>	<b>Theme 1 speakers</b>
<p>Q&amp;A for areas of interest around the science of vaccine technologies and development. This session will be moderated by the Session Chair and includes speakers in Theme 1.</p>		
<b>12.40 pm Lunch</b>		
<b>Theme 2: Manufacturing and Other Considerations of Vaccines Technologies in Low-Resourced Settings</b>		
<p><b>Session Chair</b> <b>Dr Ranna Eardley-Patel</b> Manufacturing and Supply Chain Chief of Staff (Acting) Coalition for Epidemic Preparedness Innovations (CEPI)</p>		
2.00 pm	<b>Talk I: IP and Technology Transfer of Vaccines</b>	<b>Mr Syed S. Ahmed</b> Chief Executive Officer TechInvention India
<p>Talk I shares an overview and considerations in IP generation, contract development and technology transfer of vaccines to manufacturing firms, with a specific focus on IP and tech transfer landscape/ challenges in low resource settings.</p>		



<b>2.20 pm</b>	<p><b>Talk II: Social and Economic Implications of National Vaccine Development and Manufacturing Strategies</b></p> <p>Talk II discusses the social and economic considerations of a well-mapped national vaccine development and manufacturing strategy and its implication on a national immunization strategy.</p>	<p><b>Dr Sunate Chuenkitmongkol</b> Deputy Director National Vaccine Institute Thailand</p>
<b>2.40 pm</b>	<p><b>Talk III: Global Trends in Standards, Inspection, Compliance and Enforcement</b></p> <p>Talk III shares the global trends in standards, regulatory inspections and compliance including key topics such as reliability of data. International engagement in standards, inspection, compliance and enforcement will be discussed.</p>	<p><b>Dr Laura Martin</b> Vaccines Program Director Health Programs United States Pharmacopeia</p>
<b>3.00 pm</b>	<b>Tea Break</b>	
<b>3.30 pm</b>	<p><b>Case Sharing: The Road to WHO Prequalification</b></p> <p>This case sharing focuses on the journey to achieving WHO Prequalification and provides insights to vaccine manufacturers in developing member countries.</p>	<p><b>Ms Iin Susanti</b> Production &amp; Support Chain Director Biofarma Indonesia</p>
<b>3.50 pm</b>	<p><b>Panel Discussion</b></p> <p>Q&amp;A on areas of interest around the manufacturing considerations of different vaccines technologies in low-resourced settings. This session will be moderated by the Session Chair and includes speakers in Theme 2.</p>	<b>Theme 2 speakers</b>
<b>4.50 pm</b>	<b>Day 1 wrap up remarks and announcements</b>	<p><b>Assoc. Prof Silke Vogel</b> Deputy Director Centre of Regulatory Excellence Duke-NUS Medical School Singapore</p>
<b>4.55 pm</b>	<b>Day 1 wrap up remarks</b>	<p><b>Dr Jae Kyoung Kim</b> Health Specialist Sectors Group (Health) Asian Development Bank</p>
<b>5.00 pm</b>	<b>Break and back to hotel</b>	



7.00 pm	<p><b>Dinner Symposium</b>  <b>Topic: Lessons From the Pandemic and Future Preparedness</b></p> <p>This talk will share key lessons learned from the Covid-19 pandemic, the global development of pandemic preparedness post-pandemic and practical solutions that developing member countries can adopt.</p> <p>Venue: Grand Copthorne</p>	<p><b>Session chair:</b>  <b>Prof John CW Lim</b>  Executive Director  Centre of Regulatory Excellence  Duke-NUS Medical School  Singapore</p> <p><b>Speakers</b>  <b>Dr Patrick L Osewe</b>  Director  Human and Social Development Office Sectors Group  Asian Development Bank</p> <p><b>Dra Lucky Slamet</b>  Former Head  Indonesian Food and Drug Authority (BPOM)  Indonesia</p> <p><b>Prof Leo Yee Sin</b>  Senior Advisor  National Centre for Infectious Diseases  Senior Consultant  Ministry of Health  Singapore</p>
7.30 pm	Dinner wrap up remarks	<p><b>Dr Ben Coghlan</b>  Senior Health Specialist  Health Security  Asian Development Bank</p>
7.40 pm	Dinner	
9.15 pm	End of day 1	

## Day 2 – 6 October, Friday

	Topic	Speaker/ Organisation
<b>Theme 3: Regulation of Vaccine Life Cycle</b>		
<p><b>Session Chair</b>  <b>Asst. Prof James Leong</b>  Head, Health Products &amp; Regulatory Science  Centre of Regulatory Excellence  Duke-NUS Medical School</p>		
9.30 am	<p><b>Talk I: Rapid Response During Public Health Emergencies: A Regulator's Perspective</b></p> <p>Talk I shares the uncertainties faced by regulators during the pandemic and the collaborative partnership forged with the different stakeholders to protect public health.</p>	<p><b>Mrs Tri Asti Isnariani</b>  Director of Drug, Narcotics, Psychotropics Precursors and Addictive Substances Standardization  Indonesian Food and Drug Authority (BPOM)  Indonesia</p>



9.50 am	<b>Talk II: Intersection of Vaccine Development, Regulation and Manufacturing in Post-Covid Era</b>	<b>Dr Lucia Rizka Andalucia</b> Director-General Pharmaceutical and Medical Devices Ministry of Health Indonesia
Talk II discusses the vaccine development, regulation, and manufacturing through the vaccine life cycle post Covid- 19 pandemic. Discussions center on facilitating clinical trials and expediting regulatory approvals for routine and novel vaccines in Indonesia.		
10.10 am	<b>Tea Break</b>	
10.40 am	<b>Talk III: Global Trends in Vaccine Effectiveness and Safety Surveillance</b>	<b>Dr Mimi Choong</b> Chief Executive Officer Health Sciences Authority Singapore
Talk III provides an overview on global vaccine effectiveness and safety surveillance, including its importance considering new vaccine platforms.		
11.00 am	<b>Talk IV: Regulatory Harmonization and Equitable Vaccine Access</b>	<b>Dr Paul Huleatt</b> Counsellor Department of Health and Aged Care Australian High Commission Singapore
Talk IV emphasize the importance of regulatory agility and its significant role in facilitating fast access to novel vaccines during the Covid-19 pandemic. It discusses the different regulatory reliance mechanisms available for developing member countries to adopt for efficient and effective vaccine regulations.		
11.20 am	<b>Panel Discussion</b>	<b>Theme 3 speakers</b>
Q&A on topics of interest relating to regulation throughout the vaccine life cycle. This session will be moderated by the Session Chair and includes speakers in Theme 3.		
12.20 pm	<b>Lunch</b>	
<b>Theme 4: Sustainability in Resource-Constrained Settings</b>		
<b>Session Chair</b>		
<b>Dr Patrick L. Osewe</b> Director Human and Social Development Office Sectors Group Asian Development Bank		
2.00 pm	<b>Talk I: Tackling Disease Burden with Vaccine</b>	<b>Prof Hsu Li Yang</b> Vice Dean (Global Health) Professor (Practice) Saw Swee Hock School of Public Health, National University of Singapore Singapore
Talk I discusses the importance of designing vaccine development and implementation strategies focused on local infectious disease burden. Discussions center on leveraging ongoing regional surveillance efforts for targeted vaccine immunization programmes as well as sharing success stories in India and other low-resourced countries.		



<b>2.20 pm</b>	<b>Talk II: One Health Implications for Vaccines</b>  Talk II shares considerations on using the One Health concept in the vaccine life cycle, including animal vaccines as a future outbreak preparedness strategy. Additional discussion includes considerations on low carbon footprint manufacturing.	<b>Dr Senjuti Saha</b> Director Child Health Research Foundation Bangladesh
<b>2.40 pm</b>	<b>Talk III: Sustainable Vaccine Manufacturing – An ADB Financing Example</b>  Talk III discusses the ADB example on sustainable financing of vaccine manufacturing and provides updates on current and novel global financing mechanisms.	<b>Dr Dinesh Arora</b> Principal Health Specialist Sectors Group (Health) Asian Development Bank
<b>3.00 pm</b>	<b>Case Sharing: Adapting Vaccine Technologies as Therapeutic Platforms for Non-Communicable Diseases (NCDs) in Low-Resource Settings</b>  This talk shares the potential to leverage on infectious disease vaccines technologies for other indications, including anti-cancer treatment, gene therapy, monoclonal therapies etc.	<b>Mr Lawrence Yap</b> Global Head of Technical Operations Hilleman Laboratories Singapore
<b>3.20 pm</b>	<b>Tea Break</b>	
<b>3.50 pm</b>	<b>Panel Discussion: Lessons from the Pandemic and Future Preparedness</b>  The panel discusses on key takeaway from Covid-19 pandemic and global developments in vaccine security, vaccine self-reliance and pandemic preparedness.	<b>Theme 4 speakers and</b>  <b>Dr Shin Jinho</b> Medical Officer Regional Office for the Western Pacific World Health Organization (WHO)
<b>4.50 pm</b>	<b>Closing Speech</b>	<b>Dr Ben Coghlan</b> Senior Health Specialist Health Security Asian Development Bank
<b>5.00 pm</b>	<b>End of seminar</b>	
<b>7.00 pm</b>	<b>Closed door meeting</b>  Venue: Duke-NUS Medical School	<b>Industry Representatives</b> <b>Asian Development Bank</b> <b>Centre of Regulatory Excellence</b>
<b>9.00 pm</b>	<b>End day 2</b>	

### Day 3 – 7 October, Saturday

	<b>Topic</b>	<b>Speaker/ Organisation</b>
<b>9.00 am</b>	<b>Closed door meeting</b>  Venue: Duke-NUS Medical School	<b>Country representatives</b> <b>Asian Development Bank</b> <b>Centre of Regulatory Excellence</b>
<b>1.00 pm</b>	<b>End day 3</b>	