Roundtable on AI Governance in the Healthcare Sector in Singapore

4 April 2024, 9.00am to 5.00pm
Galleria Ballroom, Grand Copthorne Waterfront, Singapore

Time	Topic	Speaker/Moderator
9.00 am	Welcome Address	**Prof John Lim** Executive Director Centre of Regulatory Excellence (CoRE), Singapore
Session 1:	**Current landscape**	
9.10 am	**Applications and regulation of AI: a global perspective** (*Upon setting the stage with a brief insight into generative AI and its risks, this presentation will move into use case scenarios of AI applications in the healthcare sector. This presentation will also provide an overview of the regulation of healthcare AI and discuss the scope of outcome-based regulations.*)	**Dr Stefan Harrer** Program Director Commonwealth Scientific and Industrial Research Organisation (CSIRO) Australia
9.30 am	**Regulation of AI in Singapore** (*Scoping out the AI regulatory landscape in Singapore and further describing the total product life cycle approach, key principles of SaMD regulation, the need for updating AI regulations and existing challenges.*)	**Mr Zhuang Guangyi** Acting Deputy Director Digital Health Branch Health Sciences Authority (HSA) Singapore
9.50 am	**Discussion Session** (*Discussing applications and existing regulatory mechanisms for AI in the global and Singapore context.*)	**Mr Yeong Zee Kin** Chief Executive Singapore Academy of Law Singapore
10.30 am	**Photo taking + Tea Break**	
Session 2A:	**Success Stories and Challenges Faced**	
11.00 am	**Training AI model to make accurate assessments: EM2AI journey** (*This presentation will explain the process of developing AI solutions, the challenges in implementing them at dental clinics and managing regulatory requirements. The AI solutions developed include AI dental condition detection features and generative AI for treatment suggestions.*)	**Mr Ryan San** Chief Executive Officer Ethical Medical & Evolution Machine Learning Through AI (EM2AI) Singapore
11.20 am	**Innovating and calibrating AI solutions with new data** (*Sharing experiences from building the Community Acquired Pneumonia and COVID-19 Artificial Intelligence Predictive Engine (CAPE) within a short duration and the learnings from its deployment in the public health system. Additionally, this presentation will also discuss insights on curating, validating and mining*	**A/Prof Charlene Liew** Deputy Chief Medical Informatics Officer Changi General Hospital (CGH) Director of Innovation for Radiology SingHealth, Singapore

	data while adhering to regulations for data security protocols.)	
11.40 am	**Mitigating potential risks in outputs from generative AI** *(Shifting the focus towards the perils of generative AI, this presentation will describe the methods of mitigating any potential risks such as misinformation in outputs from generative AI models. The speaker will draw upon learnings from the deployment of Mindline/Wysa and its innovative approach to applying AI solutions in the area of mental health.)*	**Ms Janice Weng** Deputy Director MOH Office for Healthcare Transformation (MOHT) Singapore
12.00 pm	**Discussion Session** (*This session will discuss issues in building AI solutions with a focus on which aspects of program design and deployment require greater regulatory oversight.*)	**Adj Asst Prof Clive Tan** CoRE Duke-NUS Medical School Asst Chief, Group Integrated Care National Healthcare Group Singapore
12.30 pm	**Lunch**	
Session 2B: Success Stories and Challenges Faced		
1.30 pm	**Training healthcare professionals to understand and adopt AI solutions** (*This presentation will explore the need for enhancing the skills of healthcare professionals to understand, adopt and augment the use of AI solutions in public healthcare settings, with a specific focus on the deployment of NUHS RUSSELL-GPT and its benefits.*)	**A/Prof Ngiam Kee Yuan** Group Chief Technology Officer National University Health System Singapore
1.50 pm	**Scaling up AI solutions across institutions** *(With a focus on the regulatory issues of large-scale deployment of healthcare AI solutions, this presentation will draw on experiences from scaling up SELENA+ and other AI solutions across institutions in Singapore.)*	**A/Prof Daniel Ting** Chief Data and Digital Officer Singapore National Eye Centre (SNEC), Singapore
2.10 pm	**Discussion Session** (*This session will focus on upstream issues such as capacity building, scaling up of solutions and trust in AI applications.*)	**Adj Asst Prof Clive Tan**
2.45 pm	**Tea break**	
Session 3: The Way Forward: Partnerships and Collaborations in AI Governance		
3.15 pm	**Under-researched domains of AI governance in healthcare**	**Prof Julian Savulescu** Director

	(*While discussing the process of building trust in healthcare AI, this presentation will clarify the need to avoid innovation without assessment and the role of professionals and consumers in understanding the values and benefits of AI.*)	Centre for Biomedical Ethics NUS Yong Loo Lin School of Medicine, Singapore
3.35 pm	**Safety evaluation and the future of AI governance in the healthcare sector** (*The final presentation of the day will take a step forward and consider the horizon of healthcare AI and deliberate on priorities from a regulatory perspective; considering both the need to regulate and the possible ways forward*)	**A/Prof Liu Nan** Director Duke-NUS AI + Medical Sciences Initiative (DAISI) Singapore
4.00 pm	**Final discussions** (*The closing session will summarise the challenges and gaps identified in the existing regulatory frameworks and identify the options and ways that can be explored to regulate healthcare AI in a productive manner without curbing innovations.*)	**Prof John Lim** CoRE **Adj A/Prof Raymond Chua** MOH
4.50 pm	**Closing Remarks**	**Ajd A/Prof Raymond Chua** Deputy Director General of Health Ministry of Health Singapore
5.00 pm	**End of the Roundtable**	