

NUS-Priority Research In Medical Education

Project Culture-of-Change: Lessons Learned from Curriculum Reform

NUS Medicine implemented a '10 enhancements' curricular change, starting 2023. From conception to implementation, the overall process took about 3-4 years. There is a need to understand aspects of the process that facilitated or hindered change and propose ways to promote change in future curricular revisions. The research utilises a mixed method approach involving semi-structured interviews and questionnaire. Stakeholders include faculty, students, and administrative staff from NUS and relevant healthcare institutions.



A/Prof Gavin Stewart DAWE

Department of Pharmacology, NUS Yong Loo Lin School of Medicine, Singapore

As Head of the Department of Pharmacology at NUS, Gavin provides strategic leadership in medical and pharmacology education. He drives evidence-based teaching and innovative applications of AI and digital technologies to actively engage learners. His dedication prepares future pharmacologists and healthcare professionals for dynamic careers. He is currently leading the second-year medical curriculum through the implementation of curriculum enhancement.

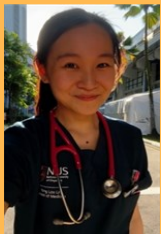
A/Prof CHEN Zhi Xiong

Department of Physiology, NUS Yong Loo Lin School of Medicine, Singapore

Zhi Xiong trained at Ludwig Cancer Research, Karolinska Institutet. He researches on pediatric solid tumors at NUS Centre for Cancer Research and KK Women's and Children's Hospital. An educator at heart, Zhi Xiong is passionate about transdisciplinary learning through faculty development, medical education technology and inter-faculty collaborations. He believes savvy in-person and digital human connections are essential for change management.



Use of Large Language Models (LLMs) Tuned with Socratic Methods to Aid Medical Students' Learning



This presentation explores the potential of Large Language Models (LLMs) in medical education. By harnessing OpenAI's GPT-3.5 model, chatbots were developed and customised through prompt engineering to integrate Socratic teaching methods in learning medical content. A randomized controlled trial involving medical students was conducted, demonstrating significant learning gains among students interacting with LLM-based chatbots compared to traditional self-reading methods. This study highlights the efficacy of LLMs in augmenting medical education, paving the way for further investigation into their role in enhancing pedagogical approaches.

Ms YONG Cai Ling

NUS Yong Loo Lin School of Medicine, Singapore

Cai Ling is a medical student passionate about merging healthcare with technology. With a keen interest in AI and its applications in medicine, she is exploring innovative pedagogical approaches, with the aim of enhancing learning for future generations of healthcare professionals.

Date : 6 May 2024 (Monday)
Time : 12.30pm - 1.30pm Singapore Time (30mins each)

Registration closes on 2 May 2024

Register [here](#) or scan the QR code



This session will be conducted online

Each Speaker:

20mins pre-recorded presentation +

10mins 'Live' Q&A

