

NUS-Priority Research In Medical Education

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WHAT DO STUDENTS NEED TO USE GENERATIVE AI WISELY?

Since 2023, generative AI has been integrated into the learning management system at Tsinghua University. In 2024, we observed preclinical students' spontaneous use of generative AI and found that it was largely limited to lower-level learning activities. In 2025, we introduced an AI agent to facilitate evidence-based learning strategies. However, students' learning strategies when interacting with the AI agent still required improvement.

These experiences highlight that access to generative AI does not automatically lead to effective learning. To fully realise the educational potential of generative AI, students need instructors' input and the guidance from learning sciences.



Dr Hange LI

XuetangX, affiliated with Tsinghua University, China

7 SEPTEMBER 2026

Monday | 12:30 - 01:30 PM (SG Time)

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SIMULATION SEQUENCE MATTERS: LEARNING TRAJECTORIES IN HYSTEROSCOPIC RESECTION TRAINING



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Simulation has become an essential component of hysteroscopy training, yet little is known about how different simulation environments should be integrated within a curriculum. This presentation reports a prospective randomised study comparing physical simulation and virtual reality simulation in novice trainees. Rather than asking which modality is superior, the study explores how training sequence influences learning trajectories, skill transfer, cognitive workload and skill retention. The findings provide practical insights into designing structured, competency-based hysteroscopy training programmes and may inform future simulation curricula in minimally invasive gynaecologic surgery.