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Harnessing AI to Revolutionize Health Sciences Education

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## Global Health Challenges in Medical Education



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### Abstract

Global health challenges, from pandemics and climate change to non-communicable diseases and health inequities, demand a radical transformation in how we educate future health professionals. In this talk, I will explore the urgent need to align medical education with global realities and highlight the transformative potential of artificial intelligence in achieving this goal. I will begin by setting out what I see as key gaps in current curricula, including limited exposure to diverse health systems, underrepresentation of global health topics, and inadequate integration of public health and policy. I will then draw on innovative case studies from institutions and programmes worldwide to showcase how AI is being used to personalise learning, simulate global health scenarios, and democratise access to education. I will discuss ethical and practical considerations, such as bias in AI models, data governance, and faculty readiness, as critical components of responsible implementation. I will conclude with a forward-looking vision for a globally responsive, AI-enhanced medical education ecosystem that supports lifelong learning and interdisciplinary collaboration. My call to action will urge investment in equitable AI infrastructure and cross-border partnerships to ensure that future health professionals are not only clinically competent but also globally conscious, ethically grounded, and technologically empowered.

### Biography

Professor Martin McKee is Professor of European Public Health at the London School of Hygiene & Tropical Medicine and Co-Director of the European Observatory on Health Systems and Policies, where he has led pioneering research on health systems, policy, and public health across Europe and globally. He is also a past President of the British Medical Association, the UK Society for Social Medicine, and the European Public Health Association. His work has been recognised by election to the US National Academy of Medicine, UK Academy of Medical Sciences, Academia Europaea, and by 7 honorary doctorates and various medals and awards from learned societies. He has authored over 1,400 peer-reviewed papers and 50 books. He has a longstanding relationship with Hong Kong University and is an author of a book, *Artificial intelligence demystified, what health policymakers need to know*, to be published in late 2025.