

AI IN PHYSIOLOGICAL SCIENCES AND PATHOLOGY

Academy for Healthcare Science Webinar

Wednesday 11th December 2024

12:00 – 13:45

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Overview

Continuing our AHCS Webinar Series on scientific leadership around artificial intelligence, AI, we are delighted to present three speakers at the cutting edge of AI in current clinical services. In this webinar, we shall focus on three applications within health technology assessment, pathology and gastroenterology, which are actively supporting physiology and pathology teams today.

We shall learn innovative ways of data interpretation and quality using digital power and algorithms to simplify complex data processing thereby releasing clinical physiologists and pathologists to focus on patients and / or reduce reporting times. These specific examples may offer an insight into solutions for other physiology and pathology services to reduce the ‘log jams’ of daily practice.

After our three 25-minute presentations, there will be time for questions, comments and discussion, since we believe this is where others can adapt the technology and ideas for their own practice. As healthcare scientists, we should be the powerhouse of innovation and the bastions of quality in physiology and pathology. We hope that this webinar stimulates your appetite to engage in AI for your healthcare science service.



Programme



Introduction **Professor Brendan Cooper**

President of the Academy for Healthcare Science and Consultant Clinical Scientist, Professor of Respiratory & Sleep Physiology, University Hospitals Birmingham, UK.



Chair **Professor Stephen O'Connor**

Visiting Professor in Biomedical Engineering, Royal Academy of Engineering and City St George's, University of London, UK.



Dr Anna Barnes, Director of the King's Technology Evaluation Centre, London

The role of Healthcare Scientists in health technology assessment for innovation and translation using AI

Dr Anna Barnes is Director of the [King's Technology Evaluation Centre](#), HCPC registered Clinical Scientist in Medical Physics and President of the Institute of Physics and Engineering in Medicine. Previously, Anna was principal clinical scientist in Nuclear Medicine, 2012-2021, at University College Hospital London and Chief Healthcare Scientist for NHS-England, South East Region, 2020-22.

KiTEC is a team of health technology assessors, medical statisticians and health economists in receipt of contracts from the NICE medical technology assessment committee since 2014. It has undertaken more than 20 evaluation projects in the last 5 years. In 2020, KiTEC was selected to become an evaluation partner for the 'AI in Health and Care Awards'. This is a large scale, multi-million NHS funded programme aimed at accelerating both testing and evaluation of the most promising AI technologies for national roll out.





Professor Allan Wilson, Consultant Biomedical Scientist and Clinical Lead for the Scottish Cervical Screening Programme

The Hologic Genius Cytology System

Alan was elected as President of the Institute of Biomedical Science in 2019, taking up office from January 2020. He served his term during the COVID pandemic and handled numerous media inquiries, appearing frequently on national radio and TV channels.

Alan has have worked in Cytology laboratories for more than 48 years covering all aspects of the service. He was awarded Honorary Fellow of the Royal College of Pathologists for services to cytology and screening and Honorary Professorship by Robert Gordon University.

As the Clinical lead for the Scottish programme, he delivered clinical advice to screening professionals across the programme including GP's, gynaecologists and public health consultants. Alan chairs the steering group of a Scottish Government directed national audit of exclusions from screening. He has lectured on gynae and non-gynae cytology in local, national and international meetings including New Zealand, South Africa, Belgium, Kenya, Holland, Spain and Italy.



Dr Zaibaa Patel, Senior Clinical Trial Manager, Odin Vision, UK

AI advances in endoscopy

Dr Zaibaa Patel has a PhD in Biomedical Engineering from City, University of London. Her research focused on the development of an optical system for physiological measurements within the area of colorectal cancer.

Currently, Zaibaa is a Senior Clinical Trial Manager at Odin Vision. She aids the advancement of AI technology for endoscopy, plans and coordinates clinical trials, from pilot studies to international randomised controlled trials. With a robust history in Medical Device R&D, she has made impactful contributions as a Pre-clinical Research Associate in wearable technology at Imperial College, London and a Research Associate in Optical Engineering at King's College, London. She was a Young Scientist Awardee at the Global Young Scientists' Summit and a Young Physics Scientist at the Lindau Nobel Laureate Meeting.

