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Sanjay Gandhi

North Bristol NHS Trust, UK

Latest developments in radiology healthcare IT, digital imaging and telehealth

Exciting new innovations in healthcare technology such as advanced image analysis, Tele-Health, Micro Robotics, etc., are changing the landscape of healthcare. These advances are enabling us to deliver high-quality care to a wider population. New technology often brings improved productivity and efficiency savings. New developments in Healthcare-IT are leading the way in developing new care pathways such as image and model guided therapies. Teleconferencing and specialist opinion for complex cases, Computer Aided Detection/Diagnosis (CAD), automated image analysis are helping professionals to deal with increasing workload. As a result, we are benefiting from both the technical efficacy and improved diagnostic accuracy. These innovations have additional benefits in medical education, training, assessment and quality assurance. We will discuss the benefits of the latest developments to patients, radiologists, clinicians along with potential savings for hospital management. At the same time, there is a fear that digital health tools may lead to burning out of physicians and impede care. Studies have shown that the majority of self-proclaimed health apps in the market aren't tested on patients and more worryingly, rouge organizations make false or exaggerated claims. Some of the melanoma detection apps were fined recently by the FTC for claiming to diagnose skin cancer. In addition to these subjects, this presentation will highlight several practical examples of medical innovations through the stages of concept, design, pilot and successful implementation. Furthermore, there will be practical information for healthcare sector's entrepreneurs, who wish to develop pioneering products for the future.

Biography

Sanjay Gandhi is a senior attending Radiologist at one of the largest teaching hospitals and regional trauma units in the UK. For the past 17 years, he has been teaching the University of Bristol and University of West of England trainees. As Honorary Professor, he also teaches at Sri Devaraj Urs University, India. He has won multiple academic awards and has been involved in numerous research projects and collaborative trials. He has published widely on use of cutting-edge technology and co-authored and edited 8 medical textbooks. He is an internationally recognized leader in HealthcareIT and development of Smart Apps.

GandhiS@doctors.org.uk