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The future horizons for development of digital products for the cardiovascular sector and the impact of machine learning



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The author will describe the exciting new modern world of digital Medtech development – the future significance of digital products and their disruption of modern day cardiovascular medical and surgical management through novel sensing platforms. She will expand on future horizons in biometric sensing in cardiology– the opportunities, challenges and likely impacts on clinical care pathways. The author will also describe the journey of development of Tarilian Laser Technologies (TLT) – which is an innovative Medtech Company based in Welwyn Garden City, Hertfordshire and Leeds and also Minneapolis, Minnesota, USA; with its main clinical center being at The Barts Heart Centre in London, Europe's largest cardiovascular research center. TLT have developed a novel optical platform technology based on its internal proprietary patented opto-electronic micro-sensor for full hemodynamic profiling including our ability to generate beat to beat blood pressure, compliance data, cardiac output and regional blood flow and blood pressure. She will also describe the modern world of rapid product development and prototyping, how to engage doctors, nurses and patients in product design and development, and how the industry is going through a new revolution through the impact of Artificial Intelligence Systems.

Biography

Nita Shah is a global thought-leader and Inventor in the Medtech Industry, with significant Medtech Engineering expertise and also is a Molecular Biologist and Virologist. Nita is an expert on medical device engineering and product development. Nita is co-founder and CTO of Tarilian Laser Technologies and ViCardio® Ltd, which has developed an award-winning patented powerful cuffless non-invasive solution to blood pressure measurement and haemodynamics.

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