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A dynamic new world order for digital blood pressure measurement: Introduction to Tarilian Laser Technologies



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Tarilian Laser Technologies (TLT) is an innovative Medtech Company based in Welwyn Garden City, Hertfordshire & Leeds and also Minneapolis, Minnesota, USA. Our main clinical centre is The Barts Heart Centre in London, Europe's largest cardiovascular research centre. At TLT, we have developed a novel optical platform technology based on our internal proprietary patented opto-electronic micro-sensor for full haemodynamic profiling including our ability to generate beat to beat blood pressure, compliance data, cardiac output and regional blood flow and blood pressure. A unique aspect of the TLT Sapphire sensor is that no energy enters the body at all – hence, it is truly non-invasive and does not require any compression/cuff and nor any calibration. The sensor is simply applied onto the body and it works instantly delivering continuous beat to beat haemodynamic data. The technology has already won many international awards and TLT has over 47 issued patents. TLT is finalizing its manufacturing translation programme for market launch. The TLT technology is set to revolutionize blood pressure measurement and cardiology, including in the community, hospital ward and OPD and critical care; and also, the emerging consumer wearable markets. An additional interest is the ability of our technology to measure regional/localized blood pressure and flow: including central retinal, renal arterial, maternal and fetal and placental blood pressure and flow. TLT has also commenced major programme of research on blood pressure variability and novel carotid applications especially in relation to the carotid body and sinus. The author will present the data from the pivotal study comparing the TLT technology performance to that of the intra-arterial line (IABP) at The Barts Heart Centre ICU.

Biography

Sandeep Shah is a leading pioneer in the Medtech Industry and a Medical Doctor, an international Medical Technology Development Expert with sector expertise in technology transfer, regulation, clinical research, market adoption and business development. He is an expert on blood pressure measurement and haemodynamics. Sandeep is Co-Founder and CEO 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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