

3<sup>rd</sup> International Conference on

# Medical Physics & Biomedical Engineering

November 07-08, 2016 Barcelona, Spain



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### Metrological approach in medical measurements

Test, measurement and calibration of medical equipment is becoming increasingly significant, when accuracy in diagnosis and effectiveness in treatment are required. Calibration and testing of medical devices are one of the most important and critical issue in metrology field. Metrology link is not well established for measurements in medical field; however, metrological traceability has been well established for measurements in technical and military field. For the medical device industry and applications in health sector, nothing counts more than the safety of a patient. Therefore, all hospitals and medical equipment manufacturers have to perform periodic testing and calibration of equipment, as a quality control regime that guarantees the reliability of medical devices. A feasibility study has been carried out and a report was published last year at TÜBİTAK UME (Scientific and Technological Research Council of Turkey, National Metrology Institute) in order to outline the current situation in the country and in the world. A roadmap was prepared for providing reliability and metrological traceability in medical measurements. Medical metrology research laboratory has been established and a number of medical device design projects were initiated.

### Biography

Baki Karaböce has completed his PhD at Yeditepe University in Istanbul in 2014. He is the Head of Medical Metrology Laboratory and Head of Medical Metrology Focus Group at National Metrology Institute of Turkey. He is a member of EURAMET-European Association of National Metrology Institutes, Task Group Health and Ultrasound subcommittee. He has published more than 30 papers in journals and has been serving as steering committee member of IEEE MeMeA-Medical Measurements and Applications Symposium.

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