Role and quality of lab tests in management of diabetes

The quality and standardization of HbA1c methods in the clinical laboratories will be discussed. The differences in various methods for measuring HbA1c will be highlighted. The gold standard methodology and challenges in standardization of the testing will be presented. Interferences and specificity related to various insulin assays will also be discussed. The quality of the POCT for glucose in real life will also be highlighted. How use of artificial pancreas will impact the management of diabetes will be part of the discussion as well.

Biography

Ravinder J Singh is currently the Director of the Endocrinology Laboratory at the Mayo Clinic. One of his areas of expertise is application of liquid chromatography tandem mass spectrometric (LC-MS/MS) to clinical laboratory analysis. He has published his work on originally developed methods including such analytes as cortisol, synthetic corticosteroids, metanephrines, estradiol, vitamin D, and urine albumin amongst others. He is also the Co-PI of 3 grants. He is Co-director of the ICL lab which supports the Human research protocols. He was recently granted a Novel methodology CTSA award for “Development of Robust LC-MS/MS Based Methods for the Absolute Quantification of Proteins and Peptides.” And he was recently awarded AACC Outstanding Speaker Award, as well as MSACL Leadership Award for Mass Spectrometry Applications to the clinical lab.

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