



Laboratory Medicine in the Era of Disruptive Technology

LMCE 2017 & KSLM 58th Annual Meeting

October 18-20, 2017

Grand Walkerhill Seoul, Korea

www.lmce-kslm.org

Clinical experience of RT-CGM using 3 commercially-available devices

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The development of more accurate and user-friendly continuous glucose monitoring (CGM) systems improved diabetes treatment by providing robust data not available through self-monitored blood glucose (SMBG). Therefore, several major professional societies, including ADA and AACE, have developed positions related to the use of CGM in those with T1D and/or T2D. There are two types of CGMs are professional (retrospective) CGM in which the patient does not see the display in real-time and personal (real-time) in which the patient can observe the changes and also be alerted to values of extremely hyperglycemia or hypoglycemia. Recently, flash glucose monitoring (FGM) has been introduced. FGM displays data whenever a monitor is swiped over the sensor, and records data every 15 min. In this talk, I will briefly review recent clinical researches using various CGM systems, and the technological development related with CGM. Also, I will introduce the result of a study comparing the accuracy of three commercially-available CGM devices, Guardian (Medtronic), G5 (DexCom), and Freestyle Libre (Abbott Diabetes Care) in non-diabetic, T1D, and T2D subjects.