The results falling within the predetermined compliance limit as per the acceptance criteria of ISO 15197.2003(E) were procured. As of December 2015, 100% of the users of IT 1000 software and interfacing with the Hospital Information System. The traceability of testing process is monitored through IT 1000 system. Till today, the POCT team process of glucometer device against laboratory method, users training, privileging and credentialing, standardization of QC practices, subsequently led to implementation of the study started with the method evaluation process improvement study was carried out in various stages from 2010 to 2015 involving members of POCT team, the study was initiated with the evaluation of the five various glucometer device in terms of correlation, precision, bias and compliance limits, users training, privileging and credentialing, standardization of quality control practices, implementation of POCT data management software IT 1000 and interfacing the system with the Hospital Information System (HIS). In addition to that the POCT team ensured the service agreement was established with the revenue leakage was cut down to RM0 in 2015 as compared to the operators are available in the IT 1000 POCT data management system. Therefore at SunMed we could conclude that the POCT team has clearly defined and well governed the POCT system in this facility.

Continuous blood glucose-monitoring is very important in patients with diabetes, as well as in patients with hyperglycaemia and hypoglycaemia, basically to deliver proper treatments, correct dosage of medications and adjustment of diet intake to these patients. In order to have an effective monitoring of blood glucose level, glucometer, a Point of Care Testing (POCT) device is required in hospitals. Glucometer plays a crucial role in providing quick and accurate analytical information to facilitate rapid treatment decisions for doctors to guide patient’s bedside, as opposed to sending the patient to the laboratory to request for a blood test in order to conduct conventional laboratory tests that must be done by a central laboratory. However, pathology laboratory plays a lead crucial role in managing POCT on procurement of high quality devices for its intended use, management of equipment quality control and documentation as well monitoring of users competency into consideration prior to the hospital-wide implementation of the device. Therefore, we took into a need for the establishment of POCT team at SunMed in order to allocate this study aims on managing glucometer devices in terms of procuring high quality and reliable results devices, to ensure glucometer devices are only handled by trained and credentialled users, to standardize internal quality control practices for all glucometer users throughout the hospital and to introduce POCT data management software to reduce financial risk in glucometer testing as well ensure traceability of patient results from all sites.

The use of glucometer as point-of-care-testing (POCT) devices enables SunMed clinicians to make quick medical decisions at fatal situations and at the same time favours patient care. It is utmost important to realize that the patients in SunMed hospitals will be tested in both point of care methods and laboratory methods, thus the differences that may occur between these methods could be misdiagnosed and misinformed and result in negative outcomes for the patient. The comparison test was broken down into four categories, namely accuracy, precision, correlation and compliance limits which are further divided into three sub-categories. The data has been graphed to visualize the correlation and non-approval of the devices individually.

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