JBI Systematic Review Title Registration Form

Title: Diagnostic Accuracy of Continuous Glucose Monitoring in Adult Patients with Type 2 Diabetes Mellitus: A Systematic Review

Centre: Singapore National University Hospital (NUH) Centre for Evidence-Based Nursing: A JBI Centre of I

Primary Reviewer

Name: Lim, Gina Kai Hsin **Email:** gina_ks_lim@nuhs.edu.sg

Question: What is the accuracy of Continuous Glucose Monitoringrelative to Point of Care Glucose Testing in Adult Patients with Type 2 Diabetes Mellitus?

PICO

Population: Studies that include adult participants above 18 years old with Type 2 diabetes mellitus in the inpatient setting. Inpatient setting will be defined as Acute Tertiary Hospitals. Studies concerning neonates and children will be excluded.

Intervention: Intervention (quantitative - effectiveness)

The index standard will be Continuous Glucose Monitoring conducted by patients and healthcare professionals (eg, physicians, nurses). This review will include studies that used Continuous Glucose Devices to assess glycemic levels. There are no limitations to the Continuous Glucose Devices used in the studies. Continuous Glucose Devices can include real-time continuous glucose monitoring

Comparator: Comparator (quantitative - effectiveness)

The reference standardwill be Point of Care Glucose Testing conducted by healthcare professionals (eg, physicians, nurses). This review will exclude all studies that compare the index intervention with a reference other than Point of Care Glucose Testing.

Outcome: Outcome & Context (comprehensive)

The objective of this systematic review is to synthesise the best available evidence related to the diagnostic accuracy of Continuous Glucose Monitoring Systems (Index Test) relative to Point of Care Glucose Testing (Reference Test) in adults with Type 2 Diabetes Mellitus.

Outcome: To find out the accuracy, sensitivity and specificity of hypoglycemia and hyperglycemia in continuous glucose monitoring device relative to Point of Care Glucose Testing, to also find out agreement in glycemic levels between continuous glucose monitoring devices and Point of Care Glucose Testing.

Context: Inpatient setting, Acute Tertiary Hospital

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