

# Comparing glucose control in the critically ill patient through two methods - conventional insulin sliding scale as compared to computerised automated insulin delivery ( enhanced model predictive control).

ACTRN12616001450404

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Status	RECRUITING
Sponsor	University Malaya
Enrollment	60 participants

## Plain Language Summary

This study is comparing two methods of controlling blood sugar levels in critically ill patients with sepsis (a life-threatening infection response). One method uses a traditional paper-based sliding scale for insulin dosing, and the other uses a computerized system (eMPC) that automatically calculates the right dose based on the patient's data. Researchers want to find out which method keeps blood sugar in a safe, stable range more effectively.

You may be eligible if:

- You are 18 years of age or older
- You have severe sepsis or septic shock
- Your blood sugar was above 8.9 mmol/L when admitted to the ICU, or you are already on insulin therapy
- You are expected to stay in the ICU for at least 5 days

You may NOT be eligible if:

- You have a known allergy to insulin
- You have diabetic ketoacidosis
- You have hyperosmolar hyperglycaemic syndrome

Talk to your doctor about whether this trial might be right for you.

## Key Eligibility Criteria

### Inclusion (5)

- Severe Sepsis or Septic Shock
- Adult patients (>18 years old)
- Blood Glucose level >8.9mmol/l upon admission OR
- Already on insulin therapy
- ICU admission expected to be more than 5days

### Exclusion (3)

- Known allergy to Insulin,
- Diabetic Ketoacidosis
- Hyperosmolar Hyperglycaemic Syndrome

## Locations (1 total)

Kuala Lumpur/ Selangor, Malaysia

<https://www.anzctr.org.au/Trial/Registration/TrialReview.aspx?ACTRN=ACTRN12616001450404>

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