



**PREVENTion with SGLT-2 inhibition of Acute Kidney Injury
in intensive care (PREVENTS-AKI) – November 2022**



The George Institute
for Global Health

Facts:

- AKI complicates around 20% of all hospital admissions, representing over 130,000 events annually in Australia.
- Globally, AKI is estimated to occur in over 13 million people and contribute to 1.7 million deaths per annum.

Project Cycle:

2023-2027

Partners:

The George Institute
for Global Health, Australia

UNSW Sydney, Australia

Supporters:

The George Institute for Global
Health

Principal Investigators

Prof Martin Gallagher

Background:

- Acute kidney injury (AKI) is a common complication of hospital care, especially for patients requiring intensive care.
- AKI is strongly associated with poor outcomes for patients and adds substantially to their time in hospital and the cost of their care.
- There are currently no treatments to prevent AKI or its impacts upon patients and health services, but there is data suggesting that a class of blood-sugar lowering medications (SGLT-2 inhibitors) may protect against AKI.

Aims:

- This project will definitively test whether the use of SGLT-2 inhibition prevents the development and complications of AKI in high-risk patients treated in intensive care.

Methods:

- A multi-centre double-blind randomised controlled trial of SGLT2-inhibitors versus placebo will be conducted in patients admitted to intensive care who have a high risk of developing AKI.
- Patients will be administered study treatment throughout their intensive care admission hospital stay up to 30 days. Follow up will be conducted via phone call at Day 30 and Day 180 post randomisation.

Impact:

- This is the first trial to test SGLT2-inhibitor use in the intensive care setting.
- This treatment has the potential to be the first preventative treatment for acute kidney injury.
- This treatment will potentially save lives and reduce harm among millions of patients who experience acute kidney injury around the world.

Contact:

To find out more about this project and its principal investigators or The George Institute please contact contact Tina Wall +61 410 411 983 or at twall@georgeinstitute.org.au

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