

# A feasibility study comparing an approach of individualized blood pressure targets to standard care among critically ill patients with shock

ACTRN12617001459314

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<b>Status</b>	RECRUITING
<b>Sponsor</b>	Intensive Care Unit, John Hunter Hospital
<b>Enrollment</b>	60 participants

## Plain Language Summary

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This study is for critically ill patients in the ICU who are in shock and need blood pressure support medications. Researchers want to test whether setting a patient's blood pressure target based on their own normal (pre-illness) blood pressure — rather than a standard one-size-fits-all target — can protect the kidneys and lead to better outcomes.

You may be eligible if:

- You are aged 40 or older
- You are within 48 hours of being admitted to the ICU
- You are in shock and on medications to support your blood pressure
- You need or are already on a breathing machine (ventilator)
- There are at least two recorded blood pressure readings from before your illness

You may NOT be eligible if:

- You have a terminal illness or a life expectancy of less than 6 months
- You already need or are about to need dialysis (kidney replacement therapy)
- Your kidneys have already been severely damaged (creatinine rise above 350 µmol/l)
- You are pregnant
- You are on a heart-lung bypass machine (ECMO) or similar device
- Your ICU admission is primarily due to trauma or active bleeding
- You have a brain injury or other condition requiring a specific blood pressure target

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

## Key Eligibility Criteria

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### Inclusion (7)

- ICU patients aged greater than or equal to 40 years
- The patient is within 48 hours of ICU/HDU admission
- The patient is either receiving or is deemed to imminently need positive pressure ventilation (includes invasive or non-invasive ventilation or high-flow oxygen)
- The patient is deemed to be in shock, defined as clinician-initiated vasopressor therapy AND supported by any of the following within the last 24 hours:
  - o Lactate level greater than or equal to 2 mmol/l or base deficit greater than or equal to 3 mmol/l,
  - ... and 2 more (see full listing online)

### Exclusion (15)

- Patients who are moribund, or have not-for-resuscitation orders, or are deemed to have life expectancy of less than 6 months.
- Patients who are either receiving or are deemed to imminently need renal replacement therapy.

<https://www.anzctr.org.au/Trial/Registration/TrialListing.aspx?ACTRN=12617001459314> baseline.

- End stage renal disease
  - Patients where trauma is the main reason for the current ICU admission.
- ... and 10 more (see full listing online)

## Locations (2 total)

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John Hunter Hospital - New Lambton, ACT,NSW, Australia  
The Canberra Hospital - Garran, ACT,NSW, Australia