

# Evaluating a software-based model for improving management of the circulation of adult patients undergoing major surgery.

ACTRN12624000713594

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Status	RECRUITING
Sponsor	Austin Health
Enrollment	100 participants

## Plain Language Summary

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During major abdominal surgery, anaesthetists must carefully manage blood pressure and fluid levels to ensure the body's organs receive enough oxygen. Traditional blood pressure monitoring has limitations — it does not clearly show whether the heart or the blood vessels are the main cause of a pressure problem. A new monitoring software called the Pressure Field method interprets blood pressure data in a way that helps anaesthetists choose the right treatment (fluids versus blood pressure drugs) more precisely.

This feasibility study from Austin Health is preparing for a large future trial by testing whether the Pressure Field software and its accompanying treatment protocol can be smoothly integrated into anaesthetic care for major abdominal surgery. The focus is on making sure the study design, training, and data collection all work well before scaling up.

You may be eligible as a patient if you are scheduled for an elective intermediate to high-risk abdominal procedure and your anaesthesia plan includes arterial and central venous catheters connected to specific monitoring equipment. Pregnant patients and those in other conflicting trials are not eligible.

## Key Eligibility Criteria

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### Inclusion (2)

- Anaesthetists: consultant anaesthetists who are regular users of advanced haemodynamic monitoring and who regularly provide anaesthetic care for major intra-abdominal surgery at a trial site.
- Patients: scheduled for an elective intermediate- to high-risk abdominal surgical procedure and expected to be managed using a peripheral arterial catheter and central venous catheter connected to an EV1000 or Hemosphere monitor.

### Exclusion (2)

- Anaesthetists: Anaesthetists who do not expect to be regularly providing care for major intra-abdominal surgery throughout the trial period.
- Patients: Pregnancy or participation in a conflicting interventional clinical trial.

## Locations (1 total)

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VIC, Australia

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<https://www.anzctr.org.au/Trial/Registration/TrialReview.aspx?ACTRN=ACTRN12624000713594>

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