

Optimising mechanical ventilation in Intensive Care Unit (ICU)

ACTRN12614001069640

Status	RECRUITING
Sponsor	University of Canterbury
Enrollment	300 participants

Plain Language Summary

This study is testing a computer-assisted method of setting ventilator pressures for patients in the intensive care unit (ICU) who need a breathing machine. A key setting called PEEP (positive end expiratory pressure) is normally chosen by the doctor's judgement, but this can vary. Researchers believe a personalised computer method may choose a better PEEP for each patient, which could help their lungs heal faster and reduce time spent in the ICU.

You may be eligible if:

- You are 16 years or older
- You are on a breathing machine (mechanical ventilator) in the ICU
- You have been diagnosed with Acute Respiratory Distress Syndrome (ARDS)
- You have been on the ventilator for less than 48 hours

You may NOT be eligible if:

- You are likely to come off the ventilator within 24 hours
- You have a moderate or severe traumatic brain injury or high spinal cord injury
- You have a condition associated with raised pressure in the skull
- You have a collapsed lung (pneumothorax) or air leak
- You have asthma or severe COPD as the main reason for being on the ventilator
- You are pregnant
- You have already been in this study during the same hospital stay

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

Key Eligibility Criteria

Inclusion (3)

- Patients requiring invasive mechanical ventilation (MV) (Intubation or tracheotomy).
- Patients diagnosed with all acute respiratory distress syndrome (ARDS) severity (PF [oxygen partial pressure to fraction of inspired oxygen] ratio <300mmHg) as per the Berlin Definition (The ARDS Definition Task Force, A. 2012), by intensive care clinicians.
- Arterial line in situ.

Exclusion (27)

- Patients who are likely to be discontinued from MV within 24 hours.
- Patients with age <16.
- Patients who have moderate or severe traumatic brain injury, and/or a measured intracranial pressure equal or more than 20 cmH2O.
- Any medical condition associated with a clinical suspicion of raised intracranial pressure.
- Patients who have a high spinal cord injury with loss of motor function.

... and 22 more (see full listing online)

<https://www.anzctr.org.au/Trial/Registration/TrialReview.aspx?ACTRN=ACTRN12614001069640>

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Canterbury, New Zealand

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