

Spontaneous versus spontaneous timed mode of assisted ventilation in patients with chest wall disease and stable neuromuscular disease

ACTRN12608000103369

Status	RECRUITING
Sponsor	Institute for Breathing And Sleep
Enrollment	20 participants

Plain Language Summary

This study is comparing two modes of ventilation (breathing support machines) used at night for people with breathing difficulties caused by chest wall problems — like a curved spine (kyphoscoliosis) — or stable neuromuscular diseases (conditions affecting the muscles or nerves that control breathing). The two modes differ in how the machine delivers breaths. There is currently no strong evidence that one is better than the other. The study will compare how well each mode keeps breathing in check and how well people sleep on each one.

You may be eligible if:

- You are 18 years of age or older
- You have chest wall disease (such as kyphoscoliosis) or a stable neuromuscular disease
- You already use a ventilator (breathing machine) at night
- Your daytime carbon dioxide level was elevated when you first started using the machine

You may NOT be eligible if:

- You have COPD (Chronic Obstructive Pulmonary Disease)
- You have a progressive neuromuscular disease (such as motor neurone disease)
- You have a tracheostomy
- You are unable to provide informed consent

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

Key Eligibility Criteria

Inclusion (3)

- Patients with chest wall disease such as kyphoscoliosis or stable neuromuscular disease will be eligible
- Patients have evidence of hypoventilation (defined as day time PaCO₂ of > 45 mmHg) at the time of initiation of ventilatory support.
- Patients are already on nocturnal assisted ventilation

Exclusion (5)

- Patients aged less than 18 years of age
- Patients with Chronic Obstructive Pulmonary Disease (COPD)
- Patients with progressive neuromuscular disease such as motor neurone disease
- Patients with a tracheostomy in situ
- Patients in whom we are unable to obtain informed consent

Locations (1 total)

Australia
<https://www.anzctr.org.au/Trial/Registration/TrialReview.aspx?ACTRN=ACTRN12608000103369>

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