

Comparison of two techniques for measuring carbon dioxide and oxygen levels in patients requiring arterial blood gas measurement.

ACTRN12615001154594

Status	RECRUITING
Sponsor	Medical Research Institute of New Zealand
Enrollment	16 participants

Plain Language Summary

This study is checking how well a small clip placed on the earlobe can measure oxygen and carbon dioxide levels in the blood, compared to the traditional method of taking a blood sample from an artery (arterial blood gas test). The clip-on device is painless and continuous. Researchers want to confirm it gives accurate enough results to use in future studies.

You may be eligible if:

- You are 16 years or older
- You are a patient at Wellington Regional Hospital who needs an arterial blood gas test as part of your regular medical care

You may NOT be eligible if:

- You have sickle cell anemia, methemoglobinemia, or carbon monoxide poisoning
- You have previously been enrolled in this same study
- You are under 16 years old
- The earlobe clip gives a poor reading or signal quality

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

Key Eligibility Criteria

Inclusion (1)

- Patients requiring an Arterial Blood Gas (ABG) measurement as part of their clinical care at: Wellington Regional Hospital in New Zealand, either in the outpatient department or on the wards.

Exclusion (5)

- (i). Diagnosis of sickle cell anaemia, methaemoglobinaemia, or carbon monoxide (CO) poisoning (factors known to affect oxygen saturation recordings).
- (ii). Patients previously recruited to the study with paired transcutaneous and arterial values successfully recorded on the same device.
- (iii). Age under 16 years.
- (iv). Poor reading/signal quality from participant's earlobe(s) as per display warnings on the transcutaneous device.
- (v). Any other condition which, at the investigator's discretion, is believed may present a safety risk or impact upon the feasibility of the study or the interpretation of the study results.

Locations (1 total)

Wellington, New Zealand

<https://www.anzctr.org.au/Trial/Registration/TrialReview.aspx?ACTRN=ACTRN12615001154594>

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