

# Closed Loop Oxygen Control in INTubated Critically Ill Patients

NCT06829732

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Status	RECRUITING
Phase	Not Applicable
Sponsor	Parc Taulí Hospital Universitari
Enrollment	46 participants

## Key Eligibility Criteria

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### Inclusion (4)

- Patients admitted to the ICU who are expected to require invasive mechanical ventilation for at least 8 hours and are expected to stay respiratory stable in the upcoming 8 hours.
- Acute respiratory failure with  $\text{PaO}_2/\text{FiO}_2 < 300$  with  $\text{FiO}_2 \leq 0.4$  at inclusion
- Age older than 18 years old.
- Written informed consent signed and dated by the patient or one relative in case that the patient is unable to consent, after full explanation of the study by the investigator and prior to study participation.

### Exclusion (7)

- Low quality on the  $\text{SpO}_2$  measurement using finger and ear sensor (quality index  $< 60\%$ ).
- Hemodynamic instability defined as a need of continuous infusion of epinephrine or norepinephrine  $> 1 \text{ mg/h}$ .
- Severe acidosis ( $\text{pH} < 7.30$ ).
- Chronic or acute dyshemoglobinemia: methemoglobin, CO poisoning, sickle cell disease.
- Patient under guardianship or deprived of liberties.

... and 2 more (see full listing online)

## Locations (1 total)

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Parc Taulí Hospital Universitari, Sabadell, Barcelona, Spain