

Effect of sugammadex, reversing the effects of rocuronium, on steroid hormone levels

ACTRN12614000553673

Status	RECRUITING
Phase	Phase 4
Sponsor	Firat University Scientific Research Projects Unit
Enrollment	50 participants

Plain Language Summary

After surgery, patients are given medications to reverse muscle relaxants used during anaesthesia. This study is comparing two reversal agents — neostigmine (the traditional drug) and sugammadex (a newer option) — to see whether sugammadex affects hormone levels, specifically cortisol, aldosterone, progesterone, and testosterone. Blood samples will be collected before and after reversal to compare the two approaches.

You may be eligible if:

- You are a male between 18 and 45 years old
- You are having elective lower limb surgery under general anaesthesia
- Your expected surgery time is between 1 and 3 hours
- You are in good general health (ASA class I or II)

You may NOT be eligible if:

- You have a neuromuscular disease, endocrine disorder, or psychiatric condition
- You have liver, kidney, heart, or peripheral nerve disease
- You have diabetes mellitus
- You are obese (BMI over 30 kg/m²)
- You are on steroid or hormone therapy
- You are taking any medications that interact with neuromuscular blockers

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

Key Eligibility Criteria

Inclusion (5)

- Elective lower extremity surgery undergone general anesthesia
- ASA I-II
- Male patient
- years of age
- expected surgery time is 1-3 hours

Exclusion (4)

- ASA III, IV and V
 - neuromuscular disease
 - endocrin disease
 - psychiatric, liver, kidney, heart diseases, diabetes mellitus and peripheral neuropathic diseases, co-operation difficulties, difficult intubation possibility, steroid or hormone therapy, obesity (body mass index > 30 kg/m²), neuromuscular blockers interact with drug use (such as magnesium)
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<https://www.anzctr.org.au/Trial/Registration/TrialReview.aspx?ACTRN=ACTRN12614000553673>

Locations (1 total)

DISCLAIMER: This document is for informational purposes only and does not constitute medical advice. Always consult your healthcare provider before enrolling in any clinical trial. Information may not be up to date — verify details at [anzctr.org.au](https://www.anzctr.org.au). Generated by [ClinicalTrialsFinder.org](https://www.clinicaltrialsfinder.org).

Elazig, Turkey

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