

# Effect of Magnesium Sulfate Bolus on Intraoperative Neuromonitoring

NCT04938765

---

Status	RECRUITING
Phase	Phase 4
Sponsor	Loma Linda University
Enrollment	50 participants

## Key Eligibility Criteria

---

### Inclusion (3)

- Patients aged 18 to 80 years
- Belonging to American Society of Anesthesiologists physical status (ASA) I, II
- Undergoing elective spine or cranial surgery where intraoperative neuromonitoring including short latency somatosensory evoked potentials (SSEP or SEP) and transcranial electrical muscle motor evoked potentials recording from muscles (TcMEP or TcMEP or mMEP or MEP) is planned.

### Exclusion (8)

- Magnesium use within the last 2 days, either intravenous or oral supplements.
  - Patients with known electrolyte imbalances (Sodium  $<135$  or  $>145$  mmol/L OR Potassium  $<3.5$  or  $>5.0$  mmol/L, Magnesium  $>1.2$  mmol/L).
  - Severe cardiac or cardiac conduction disorders.
  - Severe pulmonary disease.
  - Patients with significant neuromuscular disorders or preexisting motor or sensory deficits other than focal upper limb neuropathy or focal cervical radiculopathy or mild cervical myelopathy.
- ... and 3 more (see full listing online)

## Locations (1 total)

---

Loma Linda University Medical Center, Loma Linda, California, United States