

Machine Learning for Predicting Spinal Anesthesia Duration

NCT07256548

Status	RECRUITING
Sponsor	Kocaeli City Hospital
Enrollment	140 participants

Key Eligibility Criteria

Inclusion (5)

- Patients scheduled to undergo total knee arthroplasty between November 2025 and March 2026 at the Kocaeli City Hospital Operating Theaters.
- Patients who have provided written informed consent to participate in the study.
- Patients whose surgery is planned under spinal anesthesia.
- Patients for whom complete clinical data can be obtained during the study period.
- Adults aged 18 years or older, classified as American Society of Anesthesiologist's (ASA) Physical Status I or II.

Exclusion (5)

- Patients who were converted to general anesthesia during surgery or initially operated under general anesthesia.
- Patients who required postoperative intensive care unit (ICU) admission following anesthesia.
- Patients who developed surgical complications and for whom postoperative mobilization could not be planned.
- Patients with cognitive impairment preventing them from completing pain assessment scales in the postoperative period.
- Patients with neuropathic pain, multiple sclerosis, or other neuromotor disorders will be excluded from the study.

Locations (1 total)

Kocaeli City Hospital, Kocaeli, Ozmit, Turkey (Türkiye)