

Artificial Intelligence-Assisted vs Surgeon-Planned Trajectories in Freehand Femoral Neck Screw Fixation

NCT06937138

Status	RECRUITING
Phase	Not Applicable
Sponsor	Union Hospital, Tongji Medical College, Huazhong University of Science and Technology
Enrollment	334 participants

Key Eligibility Criteria

Inclusion (5)

- Age e 18 years;
- Radiologically confirmed diagnosis of femoral neck fracture (displaced or non-displaced);
- Scheduled to undergo internal fixation with cannulated screws as the initial treatment strategy during the study period;
- Capable of understanding the study procedures and providing informed consent;
- Willing and able to adhere to the prescribed postoperative follow-up schedule and rehabilitation instructions.

Exclusion (3)

- Evidence of avascular necrosis of the femoral head on the affected side prior to surgery;
- Inability to tolerate the surgical intervention;
- Severe physical illnesses, cognitive problems (such as memory loss), or mental health conditions that may impair the ability to comply with medical instructions or attending scheduled follow-up appointments.

Locations (4 total)

Union Hospital, Tongji Medical College, HUST - Jinyinghu International Hospital, Wuhan, China
Union Hospital, Tongji Medical College, HUST - Main Campus, Wuhan, China
Union Hospital, Tongji Medical College, HUST - Orthopedic Hospital, Wuhan, China
... and 1 more locations