

Longitudinal Investigation of Brain Blood Flow Changes in Neurosurgical Patients

NCT04668261

Status RECRUITING
Sponsor University of Zurich
Enrollment 400 participants

Key Eligibility Criteria

Inclusion (10)

- Patients:
- Male and Female subjects ≥ 18 years of age
- Written informed consent after participants' information. Foreign speaking patients should be accompanied by a person with sufficient German language proficiency to act as a translator
- Neurosurgical diseases with the potential to alter blood flow to the brain:
- Cerebrovascular disease
- ... and 5 more (see full listing online)

Exclusion (16)

- Patients:
- Unwilling or unable to co-operate with breathing maneuvers
- Respiratory or cardiac limitations to breathing through a mask
- Medical contra-indications to limited hypercapnia (high CO₂ - 50 mmHg) or hypocapnia (low CO₂ - 30 mmHg) (i.e., known increased intracerebral pressure, metabolic acidosis or alkalosis)
- Standard contraindications for MRI scanning
- ... and 11 more (see full listing online)

Locations (1 total)

University Hospital Zurich, Zurich, Switzerland