Effect of Volatile- Based Versus Total Intravenous Anesthesia on Brain Homeostasis and Neurocognitive Outcome

NCT06779890

Status	RECRUITING
Phase	Phase 4
Sponsor	Georgia Tsaousi
Enrollment	84 participants

Plain Language Summary

This study is comparing two types of anesthesia used during brain tumor surgery — inhaled anesthetic gas (volatile-based anesthesia) versus fully intravenous anesthesia (TIVA) — to see which one better protects brain function and leads to better thinking and memory outcomes after surgery.

You may be eligible if...
- You are scheduled for brain tumor removal surgery (craniotomy)
- Your surgery is planned or semi-planned (not an emergency)
- Your general health rating (ASA class) is 1 to 3
- You are able to provide signed informed consent

You may NOT be eligible if...
- You have previously had brain surgery at the same site
- You are severely obese
- You have pre-existing confusion (delirium) or cognitive problems
- You have a very slow heart rate or certain heart rhythm problems
- You take certain blood pressure medications (like clonidine or methyldopa)
- You are pregnant
- You have liver or kidney failure

Talk to your doctor to see if this trial is right for you.

Key Eligibility Criteria

Inclusion (3)

- ASA-PS 1-3 (American Society of Anesthesiologists Physical Status classification)
- Elective or semi-elective craniotomy for brain tumor resection
- Signed informed consent

Exclusion (8)

- History of craniotomy at the same site
- Morbid obesity
- Delirious person before surgery
- Cognitive disturbances
- Preoperative heart rate (HR) \<45 beats/min or second or third degree AV block

... and 3 more (see full listing online)

Locations (2 total)

— AHEPA University Hospital, Thessaloniki, Greece

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