Cognitive Outcomes After Dexmedetomidine Sedation in Cardiac Surgery Patients

NCT04289142

Status	RECRUITING
Phase	Phase 4
Sponsor	Sunnybrook Health Sciences Centre
Enrollment	2,400 participants

Key Eligibility Criteria

Inclusion (2)

- Planned CABG (+/- valve, including off-pump) or valve replacement via sternotomy/thoracotomy, with initial recovery in the Cardiovascular Intensive Care Unit (CVICU)
- Age e60

Exclusion (5)

- Lack of patient consent
- Pre-operative major cognitive dysfunction (CogState Brief Battery score \< 80) at screening
- Aortic arch replacement/re-implantation (surgery requiring hypothermic circulatory arrest, e.g. Bentall procedure)
- Allergy/contraindication to dexmedetomidine (untreated 2nd degree type 2 or 3rd degree heart block (pacemaker), cirrhosis, HR \< 50 , grade 4 LV, renal failure or on renal replacement therapy)
- Unlikely to comply with study assessments (e.g. no fixed address, cannot complete cognitive tests at the 3, 6, and 12 month time points)

Locations (8 total)

Royal Columbian Hospital, Vancouver, British Columbia, Canada
St. Paul's Hospital, Vancouver, British Columbia, Canada
London Health Sciences, London, Ontario, Canada
... and 5 more locations