

Dexmedetomidine as an adjuvant to levobupivacaine and lidocaine in ultrasound-guided superficial cervical block for carotid endarterectomy: a prospective, randomised, double-blinded study

ACTRN12622000942752

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| Status | RECRUITING |
| Phase | Phase 3, Phase 4 |
| Sponsor | University hospital centre Sestre Milosrdnice |
| Enrollment | 60 participants |

Plain Language Summary

This study is testing whether adding a medication called dexmedetomidine to a standard local anaesthetic nerve block can improve pain relief during and after carotid endarterectomy — a surgery to remove dangerous fatty buildup from the carotid artery in the neck to reduce stroke risk. The nerve block used, called a superficial cervical block, numbs the area around the neck so surgery can be performed with the patient awake rather than under general anaesthesia, which is safer for patients with artery disease.

Researchers want to find out whether adding dexmedetomidine (an alpha-2 receptor agonist already used in other nerve blocks) extends the duration of numbness and pain relief after surgery, without causing unwanted side effects such as low blood pressure or slow heart rate. Participants are randomly assigned to receive either the standard local anaesthetic mixture alone or the same mixture with dexmedetomidine added.

You may be eligible if you are aged 18–80, have greater than 70% narrowing of a carotid artery requiring surgery, and have an acceptable health status (ASA I–III). People with severe liver disease, extreme obesity (BMI over 40), or known allergies to local anaesthetics are not eligible.

Key Eligibility Criteria

Inclusion (1)

- Patients with a critical stenosis (>70%) of the carotid artery. ASA I, II and III.

Exclusion (1)

- Patients older than 80 years, ASA > IV, severe liver dysfunction, body mass index >40, allergies to local anesthetics.

Locations (2 total)

Croatia
Zagreb, Croatia

<https://www.anzctr.org.au/Trial/Registration/TrialReview.aspx?ACTRN=ACTRN12622000942752>

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