Evaluation of smoking cessation on the clinical and radiological outcome of instrumented neck- and low back surgery

Published: 23-06-2023 Last updated: 11-07-2024

Objective: To demonstrate that smoking cessation in the postoperative period has a positive

impact on the clinical and radiological outcomes of instrumented spine surgery

Ethical review Approved WMO **Status** Recruiting

Health condition type Bone disorders (excl congenital and fractures)

Study type Observational non invasive

Summary

ID

NL-OMON53304

Source

ToetsingOnline

Brief title

Stop smoking in spine surgery

Condition

- Bone disorders (excl congenital and fractures)
- Spinal cord and nerve root disorders

Synonym

degenerative spine disease, neck- and back problems

Research involving

Human

Sponsors and support

Primary sponsor: Leids Universitair Medisch Centrum

Source(s) of monetary or material Support: SGS Achmea

Intervention

Keyword: Fusion, Instrumentation, Smoking, Spine

Outcome measures

Primary outcome

Oswestry Disability Index (lumbar spine) of de Neck Disability Index (neck)

Secondary outcome

VAS leg pain (or arm pain) and VAS back pain (or neck pain), the Hospital

Anxiety and Depression Scale, the EuroQol and the patient's perceived recovery

The bony fusion will be assessed radiologically by CT at 6 and 12 months.

Study description

Background summary

Rationale: optimizing outcomes of instrumented neck and back surgery

Study objective

Objective: To demonstrate that smoking cessation in the postoperative period has a positive impact on the clinical and radiological outcomes of instrumented spine surgery

Study design

Study design: This is a multicenter observational cohort study with three groups of patients indicated to undergo moderately complex instrumented spinal surgery: a group of patients who continue to smoke is compared with a group who stop smoking. In addition, the results of a group of patients who do not smoke are recorded. Follow-up moments are baseline, 2, 6 and 12 months after surgery.

Study burden and risks

Stress: stop smoking with the help of the 'SineFuma stop smoking' program and

2 - Evaluation of smoking cessation on the clinical and radiological outcome of inst ... 24-05-2025

urine test for nicotine (for those 70 patients who indicate that they want to stop smoking), for all 210 patients: complete a set of questionnaires 4 times.

Risks: No research-induced risks

Contacts

Public

Leids Universitair Medisch Centrum

Albinusdreef 2 Leiden 2300 RC

NL

Scientific

Leids Universitair Medisch Centrum

Albinusdreef 2 Leiden 2300 RC NL

Trial sites

Listed location countries

Netherlands

Eligibility criteria

Age

Adults (18-64 years) Elderly (65 years and older)

Inclusion criteria

Patients eligible for instrumented spine surgery (cervical posterior spondylodesis OR lumbar posterior spondylodesis) due to a degenerative cause. Patients are between 18 and 75 years old Patients master the Dutch language Patients must be cleared for surgery by the anesthesiologist To be eligible for the 'stop smoking' part, the patient must classify himself

Exclusion criteria

Patients with malignancy Patients with a fracture after trauma Patients with high complex deformity Pregnant women

Study design

Design

Study type: Observational non invasive

Intervention model: Other

Allocation: Non-randomized controlled trial

Masking: Open (masking not used)

Control: Active

Primary purpose: Prevention

Recruitment

NL

Recruitment status: Recruiting
Start date (anticipated): 06-07-2023

Enrollment: 210

Type: Actual

Ethics review

Approved WMO

Date: 23-06-2023

Application type: First submission

Review commission: METC Leiden-Den Haag-Delft (Leiden)

metc-ldd@lumc.nl

Approved WMO

Date: 25-09-2023
Application type: Amendment

Review commission: METC Leiden-Den Haag-Delft (Leiden)

metc-ldd@lumc.nl

Approved WMO

Date: 08-03-2024
Application type: Amendment

Review commission: METC Leiden-Den Haag-Delft (Leiden)

metc-ldd@lumc.nl

Study registrations

Followed up by the following (possibly more current) registration

No registrations found.

Other (possibly less up-to-date) registrations in this register

No registrations found.

In other registers

Register ID

CCMO NL83858.058.23