

Stent-protected Percutaneous Angioplasty of the Carotid artery versus Endarterectomy

Submission date 15/06/2005	Recruitment status No longer recruiting	<input type="checkbox"/> Prospectively registered <input type="checkbox"/> Protocol
Registration date 02/08/2005	Overall study status Completed	<input type="checkbox"/> Statistical analysis plan <input checked="" type="checkbox"/> Results
Last Edited 06/08/2019	Condition category Circulatory System	<input type="checkbox"/> Individual participant data

Plain English summary of protocol
Not provided at time of registration

Study website
<http://www.space.stroke-trial.com/>

Contact information

Type(s)
Scientific

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Additional identifiers

EudraCT/CTIS number

IRAS number

ClinicalTrials.gov number

Secondary identifying numbers
N/A

Study information

Scientific Title

Stent-protected Percutaneous Angioplasty of the Carotid artery versus Endarterectomy

Acronym

SPACE

Study objectives

To compare carotid endarterectomy (CEA) and carotid stenting in patients with symptomatic >70% carotid artery stenosis.

To prove equivalence in the treatment of symptomatic >70% carotid artery stenosis in:

- Prevalence of ipsilateral stroke (modified Rankin ≥ 4) or death at 30 days
- Prevalence of ipsilateral stroke or death within 24 months after randomisation
- Restenosis (>70%) according to North American Symptomatic Carotid Endarterectomy Trial (NASCET) criteria at 6, 12, 24 months
- Procedural failure: technical or serious adverse events (SAE), subacute occlusion, (re)stenosis of 70% NASCET within 7 days
- Prevalence of any stroke within 30 days and 2 years after randomisation

Ethics approval required

Old ethics approval format

Ethics approval(s)

Not provided at time of registration

Study design

Randomised controlled trial

Primary study design

Interventional

Secondary study design

Randomised controlled trial

Study setting(s)

Hospital

Study type(s)

Treatment

Participant information sheet

Health condition(s) or problem(s) studied

Stroke, secondary prevention

Interventions

Carotid endarterectomy or Carotid artery stenting

Intervention Type

Other

Phase

Not Specified

Primary outcome measure

Occurrence of an ipsilateral stroke (ischaemic stroke and/or intracerebral bleeding with symptoms lasting more than 24 hours) or the death of every cause, between randomisation and day 30

Secondary outcome measures

1. Ipsilateral stroke (ischaemic stroke and/or intracerebral bleeding) or vascular death within the follow-up period of 24 months, beginning with the time of randomisation
2. Restenosis with at least 70% measured by Duplexsonography according to 70%-stenosis following the ECST-criteria or at least a 50%-stenosis after the criteria of the NASCET after 6, 12 and 24 months
3. Procedural technical failure (technically not feasible treatment, serious adverse events [SAE] during and/or by the treatment, occlusion of the vessel or restenosis with at least 70% measured by Duplexsonography according to 70%-stenosis following the ECST-criteria or at least a 50%-stenosis after the criteria of the NASCET on the 6th day \pm 1 day and 30th day \pm 3 day after treatment)
4. Ipsilateral stroke (ischaemic stroke and/or intracerebral bleeding with an impairment ≥ 3 on the modified Rankin scale) or death of every cause, between randomisation and day 30 \pm 3 after treatment
5. Strokes of every localisation and severity 30 \pm 3 days after the intervention
6. Strokes of every localisation and severity within 24 months \pm 14 days after the intervention

Overall study start date

01/03/2001

Completion date

31/12/2005

Eligibility

Key inclusion criteria

- a. Symptomatic (Amaurosis fugax, transient ischemic attack [TIA], prolonged reversible ischaemic neurologic deficit [PRIND], complete stroke), Stenosis of the carotid bifurcation or the internal carotid artery (ICA) within 180 days before randomisation
- b. Clinical impairment not more than 3 of the modified Rankin scale
- c. Age at least 50 years
- d. Negative pregnancy test for women with childbearing potential
- e. Possibility to participate on the follow-up visits
- f. Written informed consent
- g. Stenosis of the carotid bifurcation or the ICA on the clinically symptomatic side with at least 70% according the criteria of the European Carotid Surgery Trial (ECST) or at least 50% after the criteria of the NASCET

Participant type(s)

Patient

Age group

Adult

Lower age limit

18 Years

Sex

Both

Target number of participants

1900

Key exclusion criteria

- a. Intracranial bleeding within the last 90 days before treatment
- b. Uncontrolled hypertension
- c. Proved intracranial vessel malformation (aneurysm or arteriovenous malformation [AVM])
- d. Known cardiac cause of thromboembolism
- e. Concomittant disease that will prevent the patient from attending follow up or known malignancy
- f. Not correctable coagulation abnormality
- g. Contraindication against Heparin, acetylsalicylic acid (ASA), Ticlopidine, or Clopidogrel
- h. Contraindication against contrast medium
- i. Occlusion of the common carotid artery (CCA) or ICA
- j. Stenosis by an external compression (e.g. by tumour)
- k. Stenosis caused by dissection
- l. Restenosis after surgical or endovascular treatment
- m. Radiation-induced stenosis
- n. Fibromuscular dysplasia
- o. Thrombusformation within the stenosis
- p. Tandemstenosis if the distal stenosis is more severe than the proximal one
- q. Planned simultaneous surgical procedures

Date of first enrolment

01/03/2001

Date of final enrolment

31/12/2005

Locations**Countries of recruitment**

Germany

Study participating centre

Department of Neurology

Heidelberg

Germany

69120

Sponsor information

Organisation

Federal Ministry of Education and Research (Bundesministerium Für Bildung und Forschung) (BMBF) (Germany)

Sponsor details

Hannoversche Straße 28-30
Berlin
Germany
10115

Sponsor type

Government

Website

<http://www.bmbf.de>

ROR

<https://ror.org/04pz7b180>

Funder(s)

Funder type

Industry

Funder Name

Federal Ministry of Education and Research (Bundesministerium Für Bildung und Forschung) (BMBF)

Alternative Name(s)

Federal Ministry of Education and Research, BMBF

Funding Body Type

Government organisation

Funding Body Subtype

National government

Location

Germany

Funder Name

German Research Foundation ((Deutsche Forschungsgemeinschaft) (DFG)

Funder Name

Guidant

Funder Name

Boston Scientific

Funder Name

Sanofi-Aventis

Funder Name

German Neurological Society

Results and Publications

Publication and dissemination plan

Not provided at time of registration

Intention to publish date**Individual participant data (IPD) sharing plan****IPD sharing plan summary**

Not provided at time of registration

Study outputs

Output type	Details	Date created	Date added	Peer reviewed?	Patient-facing?
Results article	results	01/10/2004		Yes	No
Results article	results	01/03/2013		Yes	No
Results article	results	01/11/2018		Yes	No
Results article	results	01/08/2019	06/08/2019	Yes	No