

Scandinavian Candesartan Acute Stroke Trial

Submission date 08/09/2006	Recruitment status No longer recruiting	☐ Prospectively registered ☐ Protocol
Registration date 10/11/2006	Overall study status Completed	☐ Statistical analysis plan ☒ Results
Last Edited 06/04/2011	Condition category Circulatory System	☐ Individual participant data

Plain English summary of protocol
Not provided at time of registration

Contact information

Type(s)
Scientific

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Additional identifiers

ClinicalTrials.gov (NCT)
NCT00120003

Protocol serial number
Version/Date 050708

Study information

Scientific Title

Acronym

SCAST

Study objectives

The Angiotensin Type 1 (AT1) receptor blockade with candesartan in acute stroke will:

1. Reduce the risk of death or major disability at six months by a 6% absolute risk reduction, relative to placebo
2. Reduce the risk of the combined event of 'vascular' death, myocardial infarction, or stroke during the first six months by a 25% relative risk reduction, relative to placebo

Ethics approval required

Old ethics approval format

Ethics approval(s)

Ethics approval received from the local medical ethics committees of :

1. Norway: 21st December 2004 (ref: 700-04250)
2. Sweden: 9th March 2005 (ref: 2005:040)
3. Denmark: 14th March 2005 (ref: 02258454)
4. Belgium: 23rd November 2005 (ref: ML3286)

Primary study design

Interventional

Study design

Multicentre, randomised- and placebo-controlled, double blind study

Study type(s)

Treatment

Health condition(s) or problem(s) studied

Acute stroke

Interventions

Candesartan or matching placebo for seven days (4 - 16 mg)

Intervention Type

Drug

Phase

Not Specified

Drug/device/biological/vaccine name(s)

Candesartan

Primary outcome(s)

1. Death or major disability (defined by the modified Rankin Scale) at six months
2. The composite event vascular death, myocardial infarction, or stroke during the first six months

Key secondary outcome(s)

Clinical outcomes:

1. Scandinavian Stroke Scale score at seven days
2. Modified Rankin Scale score at seven days and one, three and six months
3. Barthel Index score at six months
4. EuroQol instrument score at six months
5. Mini-Mental State score at six months

Adverse events:

During the six months follow-up period:

1. Death (all-cause death and vascular death)
2. Recurrent stroke (ischaemic, haemorrhagic, or unspecified)
3. Myocardial infarction
4. Combination of the above events
5. Other adverse events: neurological deterioration, symptomatic hypotension, renal failure, symptomatic venous thromboembolism

Health-economic measures:

Costs related to:

1. Length of hospital stay
2. Discharge disposition
3. Re-hospitalisations during the first six months

Completion date

01/06/2008

Eligibility

Key inclusion criteria

1. Clinical stroke syndrome with limb paresis, not likely to represent a transient ischaemic attack or non-stroke pathology (e.g. cerebral tumour)
2. Systolic blood pressure more than or equal to 140 mmHg
3. Trial treatment possible within 30 hours of symptom onset. If time of onset is not known, use the time when the patient was last known to be well
4. Consent (subsidiary, assent from legal acceptable representative, or waiver of consent)
5. Aged over 18 years

Participant type(s)

Patient

Healthy volunteers allowed

No

Age group

Adult

Lower age limit

18 Years

Sex

All

Key exclusion criteria

1. Markedly reduced consciousness (i.e. Scandinavian Stroke Scale consciousness score less than or equal to two)
2. Patient already receiving AT1 receptor blocker
3. Contraindication to treatment with AT1 receptor blocker, e.g.:
 - 3.1. Known renal failure (women: creatinine more than or equal to 150 µmol/L; men: more than or equal to 180 µmol/L)
 - 3.2. Previously diagnosed bilateral renal artery stenosis
 - 3.3. Previously diagnosed high-grade aortic stenosis
 - 3.4. Previously diagnosed seriously impaired liver function and/or cholestasis
 - 3.5. Known intolerance to candesartan or other tablet ingredients
4. Clear indication, in the clinicians view, for start of treatment with AT1 receptor blocker during the treatment period (e.g. chronic heart failure grade III to IV, in the presence of intolerance to Angiotensin Converting Enzyme [ACE] inhibitors)
5. Clear indication, in the clinicians view, for anti-hypertensive therapy during the acute phase of stroke (i.e. concurrent hypertensive encephalopathy or aortic dissection, or other situations)
6. Other serious or life-threatening disease before the stroke:
 - 6.1. Patient severely mentally or physically disabled (e.g. Mini Mental Status score less than 20, or modified Rankin Scale score more than or equal to four)
 - 6.2. Life expectancy less than 12 months
7. Patient unavailable for follow-up (e.g. no fixed address)
8. Pregnant or breast-feeding woman

Date of first enrolment

01/06/2005

Date of final enrolment

01/06/2008

Locations

Countries of recruitment

Belgium

Denmark

Norway

Sweden

Study participating centre

Department of Internal Medicine

Oslo

Norway

NO-0407

Sponsor information

Organisation

Ullevaal University Hospital (Norway)

ROR

<https://ror.org/00j9c2840>

Funder(s)**Funder type**

Government

Funder Name

Eastern Norway Regional Health Authority (Norway)

Funder Name

Ullevaal University Hospital (Norway)

Funder Name

AstraZeneca Ltd

Results and Publications**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	26/02/2011		Yes	No
Study website	Study website	11/11/2025	11/11/2025	No	Yes