

**Zoom@SVDs – performed by
world renowned stroke centres in Europe**

Zoom@SVDs

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Participating Centres:

Utrecht (coordinating centre)

Brain Center Rudolf Magnus
University Medical Center Utrecht,
Universiteitsweg 100, Utrecht
The Netherlands

Coordinating Investigator: Prof. Dr. Geert Jan Biessels

LMU Munich

Institute for Stroke and Dementia Research
Klinikum der Universität München
Feodor-Lynen-Straße 17, Munich, Germany
Principal Investigator: Prof. Dr. Martin Dichgans

Type of study: international observational study
(case control study)

Duration: 8 days, follow-up after 2 years

Participants: 75 patients, 45 healthy controls

Main Inclusion Criteria:

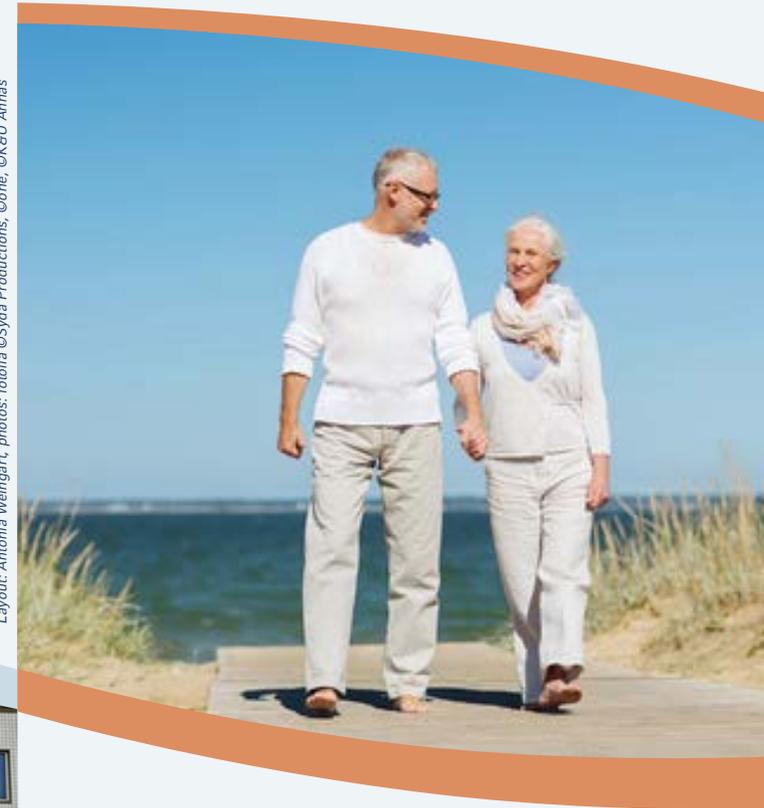
Clinical features of small vessel disease,
age > 18 years, no contraindications to MRI

Coordinating investigator:

Prof. Dr. Geert Jan Biessels
Brain Center Rudolf Magnus
University Medical Center Utrecht



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**Zooming in at microvascular
malfunction in Small Vessel Diseases
with 7T MRI**

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agreement No 666881.*



Background and Aims

Damage to the small blood vessels in the brain (known as „Small Vessel Disease“) can lead to stroke and vascular dementia.

Despite causing these important conditions small vessel disease remains relatively poorly understood compared to other blood vessel diseases. We aim to advance our knowledge of why small vessel disease develops by using one of the strongest MRI scanners currently available.

Zoom@SVDs is a multicentre, non-commercial observational study which will be performed in the Netherlands and in Germany.

The study will be performed over 4 years and recruit 120 participants.

By participating in this study you will make an important contribution to the research on cerebral small vessel diseases.

We thank you for your interest,

Prof. Dr. Geert Jan Biessels
Coordinating Investigator

Study flow

Visit 1:

Location: Utrecht or Munich
first appointment

- Face-to-face interview
- Physical examination
- Blood drawing
- Neuropsychological tests
- Instructions for how to use blood pressure measuring device
- 3-Tesla MRI

Visit 2:

Location: Utrecht
after 7 to 21 days

- High field strength imaging with 7-Tesla MRI

Follow-up:

Location: Utrecht or Munich
after 2 years

- Face-to-face interview
- Physical examination
- Neuropsychological tests
- 3-Tesla MRI



Time frame

Visit 1

Visit 2

Follow-up

after 7 to 21 days

after 2 years

Your advantages

- Stable medical assistance
- No waiting period
- Study nurse as direct contact
- High resolution MRI
- Blood analysis
- Blood pressure monitoring with a premium blood pressure device
- Comprehensive medical attendance

Magnetic resonance imaging (MRI)

Magnetic resonance imaging is a neuroimaging technique based on magnetic fields. The investigation is not dangerous and is not linked with radiation exposure. Noisy knocking sounds occur during the recording; you will wear earplugs during the scan. For a short time you will breathe CO₂ to investigate the function of the small vessels in the brain (only once during 7-Tesla MRI).