

**INVESTIGATE-SVDs – performed by
world renowned stroke centres in Europe**

Participating Centres:

Edinburgh (coordinating centre)

Neuroimaging Sciences and Brain Research Imaging
Centre, University of Edinburgh
Crewe Rd, Edinburgh, United Kingdom
Coordinating Investigator: Prof. Joanna Wardlaw

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Klinikum der Universität München
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Prof. Dr. Robert van Oostenbrugge

INVESTIGATE-SVDs

Type of study: international observational study

Duration: 8 days, follow-up after 1 year on the phone
or by mail

Participants: 75 patients

Main Inclusion Criteria:

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

Coordinating investigator:

Prof. Joanna Wardlaw
Neuroimaging Sciences and
Brain Research Imaging Centre
University of Edinburgh, Crewe Rd
Edinburgh, United Kingdom

INVESTIGATE-SVDs

Layout: Antonia Weingart, photos: shutterstock_@auremar, fotolia @one, @KEU Annas



**Imaging NeuroVascular,
Endothelial and Structural InteGrity
in prepAration
to Treat Small Vessel Diseases**

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of EDINBURGH



Background and Aims

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

Changes in the way that the brain's smallest blood vessels work appears to be important in causing small vessel disease to develop. Until recently this has been very difficult to study in humans. Now we plan to use newly developed advanced MRI brain scans to measure how well the small blood vessels are working to prevent leakage of damaging inflammatory cells into the brain tissue and ensure enough blood gets to the brain when its needed.

INVESTIGATE-SVDs is a multicentre, non-commercial observational study which will be performed in 3 different countries in Europe (UK, Germany, the Netherlands).

The study will be performed over 2 years and recruit 75 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. Joanna Wardlaw, MD
Coordinating Investigator

Study flow

Visit 1:

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

Visit 2:

- after 7 days
- MRI scan
 - Return of blood pressure measuring device

Follow-up:

- after 1 year
- On the phone or by mail
 - Interview (Medical history)
 - Shortened Neuropsychological tests
 - Duration: ca. 40 minutes



Time frame



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.