

ICONS study

The ICONS study is an [observational](#), [prospective](#), single-center cohort study. The study includes patients with [subarachnoid hemorrhage](#) admitted to the Neurosurgery Unit of the University Medical Centre Groningen in the Netherlands. The [inclusion criteria](#) include [diagnosis](#) of an [aneurysmal subarachnoid hemorrhage](#) or an [angiographically negative subarachnoid hemorrhage](#), sufficient ability in the Dutch language, and age older than 18 years. Patients will undergo neuropsychological assessment and magnetic resonance imaging 6 months after the subarachnoid hemorrhage. Furthermore, patients will be asked to fill in questionnaires on multiple psychosocial measures and undergo a structured interview at 6 months, 1 year, and 2 years after the subarachnoid hemorrhage. The primary outcome measure of the ICONS study is societal participation 1 year after the subarachnoid hemorrhage, measured with the Dutch version of the Impact on Participation and Autonomy questionnaire.

Results: The study was launched in December 2019 and recruitment is expected to continue until June 2023. At the time of the acceptance of this paper, 76 patients and 69 healthy controls have been included. The first results are expected in early 2023.

Conclusions: The ICONS study is the first to collect and combine data after subarachnoid hemorrhage in a variety of domains, including cognition, emotion and behavior, and brain damage. The results will contribute to a more comprehensive understanding of the consequences of both aneurysmal subarachnoid hemorrhage and angiographically negative subarachnoid hemorrhage, which may ultimately optimize timely treatment for this patient group by setting realistic and attainable goals to improve daily functioning.

Trial registration: Netherlands Trial Register NL7803;
<https://trialssearch.who.int/Trial2.aspx?TrialID=NL7803>.

International registered report identifier (irrid): DERR1-10.2196/38190 ¹⁾.

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Khosdelazad S, Jorna LS, Groen RJM, Rakers SE, Timmerman ME, Borra RJH, van der Hoorn A, Spikman JM, Buunk AM. Investigating Recovery After Subarachnoid Hemorrhage With the Imaging, Cognition and Outcome of Neuropsychological Functioning After Subarachnoid Hemorrhage (ICONS) Study: Protocol for a Longitudinal, Prospective Cohort Study. JMIR Res Protoc. 2022 Sep 29;11(9):e38190. doi: 10.2196/38190. PMID: 36173673.

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Last update: **2024/06/07 02:50**

