

White Matter Connections and Memory: The STRATEGIC Study

Principal Investigator

Professor Michael O’Sullivan
UQ Centre for Clinical Research
Building 71/918, Royal Brisbane Hospital Campus
Herston, 4029, QLD, Australia

Summary

Country	UK
Principal Investigator	Michael O'Sullivan
Key publication/reference	
Years in which study conducted	2013-2019
Sample	
Size	179
Population: Hospital/community	Hospital
Selection:	Consecutive/random
Admit with previous stroke?	No
Admit with TIA?	No
Age range	50-90
Number of centres	5 recruitment sites
Control group: number, population, selection	32, local volunteers contacted via ageing research database
Assessment	
Initial assessment	On admission. Verification of inclusion and exclusion criteria, verification of capacity to consent, written informed consent

First detailed assessment	Approx. 30 days: History, including cardiovascular risk factors. IQCODE, MoCA, NART-R, free and cued selective reminding task (FCSRT), trails, digit symbol substitution task, digit span. Blood samples taken for biobank.
Follow-ups	30-90 days, subset of eligible and consenting participants: MRI, paired associate learning (PAL; with and without interference), face recognition, process dissociation procedure (PDP), geriatric depression scale, letter and category fluency, Pyramids & Palm Trees, Door & People, Autobiographical Memory Interview, Corsi, serial reaction time, Stroop, Iowa gambling task. Approx. one year: MoCA, FCSRT, digit span. Participants in in-depth study only: PAL, PDP
Stroke-related data	Date of onset. Hemisphere. Size. Arterial territory
Functional tests/data	None
Other medical tests/data	Height, weight, blood pressure
Neuropsychological tests	
MRI scans, when and how many	One session at 30-90 days: High resolution T1 MPRAGE T2 FSE and FLAIR DWI (60 directions, 2 mm cubic voxels) Resting fMRI (6 min) 2 x ASL with TI of 1525 and 2525 msec Time of flight & SWAN
PET scans	Yes subset of 6 patients and 5 controls
Psychiatric exams	History of major psychiatric illness was an exclusion criterion
Dementia diagnosis criteria	Based on medical notes
Intervention trialled?	No

