# Delivering inclusive, accessible support for psychological adjustment after stroke

Submission date	Recruitment status  No longer recruiting	[X] Prospectively registered		
16/08/2024		[X] Protocol		
Registration date	Overall study status	Statistical analysis plan		
28/11/2024	Ongoing	Results		
Last Edited	<b>Condition category</b> Circulatory System	Individual participant data		
15/12/2025		[X] Record updated in last year		

#### Plain English summary of protocol

Background and study aims

Stroke survivors face a range of challenges in adjusting to life after stroke. There are limited treatment options and a lack of psychologists to provide support. Acceptance and Commitment Therapy (ACT) has successfully improved wellbeing. An earlier study working with stroke survivors, healthcare professionals and researchers developed WAterS (Wellbeing after stroke). WAterS is informed by ACT, designed specifically for groups of stroke survivors for remote delivery. Researchers also developed a training and supervision programme for staff without ACT expertise to deliver WAterS. The findings were promising. Changes are required to make WAterS more inclusive. This study aims to deliver an adapted therapy (WAterS-2), within the NHS, targeting stroke survivors with communication disabilities and those from minoritized ethnic communities. The study will explore:

- 1. If WAterS-2 can be provided as planned
- 2. Patient and staff experiences of WAterS-2 in terms of perceived impact, acceptability and safety
- 3. Factors that may help or hinder future WAterS research

#### Who can participate?

Stroke survivors aged 18 years and over, at least 4 months after stroke, with self-reported difficulty adjusting.

#### What does the study involve?

Participants will be invited to attend the WAterS-2 group course that aims to help people adjust after a life-changing stroke event. Each course will consist of eight online group sessions lasting up to 2 hours. More information on the WAterS2 intervention is available on the study website and in published papers. If a participant requires support to take part, a supporting individual will also be recruited and will feedback on the experience. The researchers will use online surveys and feedback questionnaires and will review recordings of sessions to collect information on delivery success and acceptability. Some people will also be invited to an interview with a researcher to understand more about their experiences

What are the possible benefits and risks of participating?

This is provided in the detailed Information Sheet for stroke survivors who are referred to the

study team for more information. Please note that recruitment will be managed through participating sites.

Where is the study run from? The University of Manchester (UK)

When is the study starting and how long is it expected to run for? October 2023 to March 2026

Who is funding the study? The Stroke Association (UK)

Who is the main contact?

Dr Emma Patchwood, waters@manchester.ac.uk

# Contact information

#### Type(s)

Scientific

#### Contact name

Dr Emma Patchwood

#### **ORCID ID**

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# Additional identifiers

#### Clinical Trials Information System (CTIS)

Nil known

# Integrated Research Application System (IRAS)

287785

## ClinicalTrials.gov (NCT)

Nil known

#### Protocol serial number

CPMS 63014, Stroke Association Grant Codes: PG22/23\_S1100063, IRAS 287785

# Study information

#### Scientific Title

Wellbeing After Stroke (WAterS-2): Upskilling a workforce to deliver inclusive, accessible psychological support after stroke

#### Acronym

WAterS-2

#### **Study objectives**

In keeping with the aims of this feasibility study, there are no experimental or null hypotheses. The aim is to deliver an adapted therapy (WAterS-2), within the NHS, targeting stroke survivors with communication disabilities and those from minoritized ethnic communities. The researchers will explore:

- 1. If WAterS-2 can be provided as planned
- 2. Patient and staff experiences of WAterS-2 in terms of perceived impact, acceptability and safety
- 3. Factors that may help or hinder future WAterS research

#### Ethics approval required

Old ethics approval format

#### Ethics approval(s)

Approved 29/08/2024, Wales REC6 (Health and Care Research Wales, Castlebridge 5, 15-19 Cowbridge Road East, Cardiff, CF11 9AB, UK; +44 (0)2922940911, +44 (0)2922 940954, +44 (0) 2922 941090; Wales.REC6@wales.nhs.uk), ref: 24/WA/0238

#### Study design

Non-randomized; Interventional; Design type: Prevention, Psychological & Behavioural

#### Primary study design

Interventional

#### Study type(s)

Treatment

#### Health condition(s) or problem(s) studied

Stroke

#### **Interventions**

This is a pilot study, exploring the feasibility and acceptability of the WAterS2 remote group intervention to support adjustment after stroke. The group intervention is informed by Acceptance and Commitment Therapy (ACT) and delivered remotely to groups over 8 weekly sessions. More details on the intervention are available via the linked study website and published papers.

There is no comparator/control group. All research procedures, including data collection, are conducted electronically/online.

There are three different 'types' of research participants:

- 1. Staff: trained and supported to deliver the WAterS-2 intervention
- 2. Stroke survivors: receive the WAterS-2 intervention
- 3. 'Supporting individuals' (e.g. family members, carers, friends) who may be recruited to support stroke survivors to participate, if stroke survivors request.

To broadly summarise the overall timeline and procedures of the study:

- 1. Staff are recruited and trained by research team Clinical Psychologists. Training is conducted over 4x half-day sessions. Training sessions are recorded to monitor fidelity (to explore: did we deliver training as planned?). Staff are asked to give feedback on the training received.
- 2. Stroke survivors (and any requested 'supporting individuals') are recruited, with baseline demographic and clinical data collected.
- 3. WAterS-2 groups conducted: 8 x weekly remote group sessions, lasting 2 hours per session. Two trained staff facilitate each group session with up to six recruited stroke survivors + any of their recruited supporting individuals. The sessions are primarily aimed at stroke survivors' psychological adjustment. Supporting individuals are, as named, there to support. Group sessions are recorded for monitoring fidelity (to explore: did we deliver the WAterS-2 intervention as planned?). Staff will also be asked to complete checklists after each session to help monitor fidelity.
- 4. OPTIONAL weekly group clinical supervision for staff running WAterS-2 groups: staff will have access to a weekly group support session, facilitated by research team Clinical Psychologists, to help improve fidelity and provide support for delivery of the group sessions.
- 5. Once all eight WAterS-2 group sessions are complete, all stroke survivors are asked to complete measures exploring their wellbeing and the impact of groups. Both stroke survivors and any supporting individuals will be asked to give feedback on their experiences through questionnaires. A sub-sample will be invited to give more feedback in qualitative interviews with the research team. Staff will also be asked to complete questionnaires about their experiences of delivering the group sessions.
- 6. Three months after groups have completed, stroke survivors will be asked to complete a final 'follow-up' of measures exploring their wellbeing and the perceived impact of groups.

#### Intervention Type

Behavioural

#### Primary outcome(s)

The primary aim of this study is to establish the feasibility and acceptability of the intervention and a future definitive trial. As such most measures will relate to feasibility, collected and summarised by the end of the study period in time for write-up (approx. June 2025), such as:

- 1. Establishing recruitment pathways and workforce criteria in three test sites
- 2. Informing the recruitment and retention of a future fully-powered trial by establishing the number of participants identified, approached, consented, randomised and completed.
- 3. Refining future study procedures by establishing the acceptability and experience of the trial process to participants, including completion of outcome measures.
- 4. Determining the fidelity of delivery of the intervention through checklists and recordings
- 5. Determining the optimal primary outcome measure in future work by assessing the performance of selected candidate outcome measures with respect to the level of acceptability to participants (completion rates, perceived burden) and participant-perceived relevance and value.
- 6. Further assessing the acceptability of the treatment via qualitative interviews and more.

#### Key secondary outcome(s))

Some examples of measures that will be taken at timepoints are as follows:

- 1. At baseline: demographic and self-report clinical information related to the impact of impairments to cognition and language.
- 2. At baseline: research administered remote assessment of cognition and communication (this will be to establish, post hoc, whom this intervention might be best-suited for. It is not used to determine eligibility)

In addition, the following Patient Reported Outcome Measures (PROMs) are repeated at baseline, after group intervention is completed, and again 3 months later:

- 3. Mood as recorded by the Hospital Anxiety and Depression Scale (HADS)
- 4. Wellbeing as recorded by Office of National Statistics 4 (ONS4)
- 5. Quality of life as recorded by EQ-5D-5L
- 6. Adjustment and acceptance as recorded by the Acceptance and Action Questionnaire for Acquired Brain Injury (AAQ-ABI)
- 7. Valued living as recorded by the Valuing Questionnaire (VQ)
- 8. Feedback questionnaires and qualitative interviews will also be conducted

#### Completion date

20/03/2026

# **Eligibility**

#### Key inclusion criteria

Staff inclusion criteria:

- 1. Can participate with clearance and support from their line manager
- 2. An understanding of the impact of stroke
- 3. Experience/knowledge of facilitating groups
- 4. Willing to be trained and adhere to research procedures

#### Stroke survivor inclusion criteria:

- 1. Adults in the UK (at least 18 years old)
- 2. At least 4 months post-stroke (no upper limit)
- 3. Who identify as having unmet needs in terms of psychological adjustment to stroke
- 4. Sufficient English language to engage in groups/complete measures
- 5. Access to the internet and ability to engage in remote group intervention

#### Supporting individual inclusion criteria:

- 1. Adults in the UK (over the age of 18 years)
- 2. Supporting a stroke survivor who is a participant in WAterS-2
- 3. Sufficient English language to engage in groups/complete measures
- 4. Capacity to consent

#### Participant type(s)

Health professional, Patient

#### Healthy volunteers allowed

Yes

#### Age group

Mixed

#### Lower age limit

18 years

#### Upper age limit

100 years

#### Sex

All

#### Total final enrolment

40

#### Key exclusion criteria

Staff exclusion criteria:

1. Not meeting the above inclusion criteria

Stroke survivor exclusion criteria:

- 1. Lacking the capacity to consent
- 2. Stroke survivors who identify as severely anxious or depressed, or at risk of harm would be excluded from this research, and information on referral to appropriate expert psychological support will be provided

Supporting Individual exclusion criteria:

1. Not meeting the above inclusion criteria

#### Date of first enrolment

05/12/2024

#### Date of final enrolment

01/05/2025

# Locations

#### Countries of recruitment

United Kingdom

England

# Study participating centre University of Manchester

Oxford Road Manchester England M13 9PT

# Sponsor information

#### Organisation

University of Manchester

#### **ROR**

https://ror.org/027m9bs27

# Funder(s)

#### Funder type

Government

#### **Funder Name**

Stroke Association

#### Alternative Name(s)

TheStrokeAssociation, TheStrokeAssoc

#### **Funding Body Type**

Private sector organisation

#### **Funding Body Subtype**

Associations and societies (private and public)

#### Location

United Kingdom

# **Results and Publications**

#### Individual participant data (IPD) sharing plan

The datasets generated during and/or analysed during the current study may be available upon reasonable request from Dr Emma Patchwood (emma.patchwood@manchester.ac.uk) or Prof. Audrey Bowen (Audrey.bowen@manchester.ac.uk). The type of data available will be subject to case by case analysis but anonymisation will always be ensured.

#### IPD sharing plan summary

Available on request

#### **Study outputs**

Output type	Details			Peer reviewed?	Patient-facing?
Participant information sheet	Participant information sheet	11/11/2025	11/11/2025	No	Yes
<u>Protocol file</u>	version 4.0	13/05/2025	18/09/2025	No	No
Study website	Study website	11/11/2025	11/11/2025	No	Yes