BMJ Open Structured follow-up pathway to support people after transient ischaemic attack and minor stroke (SUPPORT TIA): protocol for a feasibility study and process evaluation

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ABSTRACT

Introduction People who experience transient ischaemic attack (TIA) and minor stroke have limited follow-up despite rapid specialist review in hospital. This means they often have unmet needs and feel abandoned following discharge. Care needs after TIA/minor stroke include information provision (diagnosis and stroke risk), stroke prevention (medication and lifestyle change) and holistic care (residual problems and return to work or usual activities). This protocol describes a feasibility study and process evaluation of an intervention to support people after TIA/minor stroke. The study aims to assess the feasibility and acceptability of (1) the intervention and (2) the trial procedures for a future randomised controlled trial of this intervention.

Methods and analysis This is a multicentre, randomised (1:1) feasibility study with a mixed-methods process evaluation. Sixty participants will be recruited from TIA clinics or stroke wards at three hospital sites (England). Intervention arm participants will be offered a nurse or allied health professional-led follow-up appointment 4 weeks after TIA/minor stroke. The multifaceted intervention includes: a needs checklist, action plan, resources to support management of needs, a general practitioner letter and training to deliver the intervention. Control arm participants will receive usual care. Follow-up will be self-completed questionnaires (12 weeks and 24 weeks) and a clinic appointment (24 weeks). Follow-up questionnaires will measure anxiety, depression, fatique. health related quality of life, self-efficacy and medication adherence. The clinic appointment will collect body mass index, blood pressure, cholesterol and medication. Assessment of feasibility and acceptability will include quantitative process variables (such as recruitment and questionnaire response rates), structured observations of study processes, and interviews with a subsample of participants and clinical staff.

Ethics and dissemination Favourable ethical opinion was gained from the Wales Research Ethics Committee (REC) 1 (23 February 2021, REC reference: 21/WA/0036). Study results will be published in peer-reviewed journals and presented at conferences. A lay summary and

Strengths and limitations of this study

- ⇒ The multicentre study will enable exploration of implementation of the intervention in the context of different sites.
- ⇒ The process evaluation is underpinned by the National Institutes of Health's Behavioural Change Consortium treatment fidelity framework.
- ⇒ Quantitative and qualitative methods will explore acceptability and how the intervention is implemented in practice.
- ⇒ Participants must have the ability to converse in everyday English and read in English to participate, which may limit the generalisability of our findings.

dissemination strategy will be codesigned with consumers. The lay summary and journal publication will be distributed on social media.

Trial registration number ISRCTN39864003.

INTRODUCTION

Transient ischaemic attack (TIA) and minor stroke are important risk factors for stroke. Over 46 000 people experience a first TIA or minor stroke per year in the UK, 240 000 in the USA² and 0.31 million in China.³

National guidelines promote long-term management that focuses on stroke prevention. 4-6 However, research shows TIA and minor stroke patients feel unsupported in stroke prevention-both medication and lifestyle change—and often lack basic understanding of their diagnosis, stroke risk and preventative medication. Furthermore, many people experience a wide variety of residual impairments and unmet needs after TIA or minor stroke, including anxiety, mood/ emotional impact, fatigue, cognitive impairment, physical weakness, visual impairment



and impaired speech. 8-17 TIA and minor stroke have been also reported to impact on people's ability to return to work, performance at work, social activities and family relationships. 12-19 Follow-up care is variable and often inadequate with patients feeling abandoned after hospital discharge. 7

Care needs after TIA and minor stroke include information provision (diagnosis and stroke risk); stroke prevention (medication and lifestyle change) and holistic care (residual problems and return to work or usual activities). However, there is no evidence for how to best support these patients after rapid specialist review in hospital. To address this, we developed a multifaceted intervention which aims to actively identify and address unmet needs after TIA and minor stroke: Structured follow-Up Pathway to imProve management Of Residual impairmenTs and patients' quality of life after TIA and minor stroke. The components of the intervention are described in this protocol. In accordance with the Medical Research Council guidance on developing and evaluating complex interventions,²⁰ we will evaluate the feasibility and acceptability of (1) the intervention and (2) the trial procedures for a future randomised controlled trial (RCT) of this intervention. In addition, we will conduct a process evaluation to evaluate intervention fidelity and contextual influences on delivery.

METHODS AND ANALYSIS Study design

The study is a multicentre, individual randomised feasibility study with a mixed-methods process evaluation. The study is reported in accordance with the Standard Protocol Items: Recommendations for Interventional Trials checklist²¹ and the design is summarised in figure 1.

The study opened for recruitment on September 2021 with planned completion by December 2022.

Patient and public involvement

A core group of three people who have experienced TIA or minor stroke have supported this study from inception,

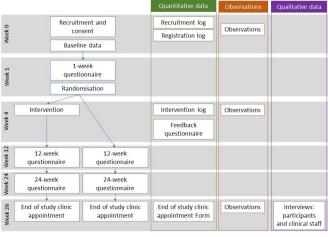


Figure 1 Trial schema.

with ad hoc contributions from other members of the public with TIA or minor stroke. The group supported the initial development of the research question and funding application, which were informed by their priorities and experiences. The group was involved in: selection of outcome measures; development of study documents; and design of the trial, such as recruitment strategies and considering participant burden related to data collection and attending intervention appointments. The group was integral to the intervention development, in particular the website of support services and resources. The group will continue to support the delivery of the study and dissemination of findings. One member (PC) is a coauthor and member of the study oversight committee. Patient and public involvement activities and impact will be reported using GRIPP2.²²

Study objectives

Trial design and methods

- 1. Assess feasibility and acceptability of the trial design and methods, including: number of patients meeting eligibility criteria; consent and randomisation processes; recruitment and retention rates; piloting the health economics questionnaire; and data completeness.
- 2. Provide data to inform the sample size for a definitive RCT.
- 3. Provide data to help inform selection of the primary outcome measure for a definitive RCT, including data completeness and correlation of the outcome measures with each other.

Intervention (process evaluation)

- 4. Investigate acceptability of the intervention for participants and intervention providers.
- 5. Test hypotheses relating to the theoretical underpinning of the intervention.
- 6. Assess if intervention providers are adequately trained to deliver the intervention.
- 7. Assess adherence to the intervention.
- 8. Assess contamination with the control group.
- 9. Define the 'dose' of the intervention (ie, attendance, length of appointment and number of appointments).
- 10. Explore how well intervention participants received and understood the intervention.
- 11. Explore to what extent the intervention was enacted as intended by patient participants (intervention group).

Study setting and eligibility criteria

Participants will be recruited from TIA clinics and stroke wards at three tertiary hospital sites in England, one in South East England (Berkshire) and two in North West England (Wigan and Liverpool). Participants will be adults who have experienced a first or recurrent TIA or minor stroke. The full eligibility criteria are detailed in box 1.



Box 1 Eligibility criteria

Inclusion criteria

- ⇒ Adults (aged ≥18 years).
- \Rightarrow Resident in England.
- ⇒ Diagnosis of confirmed transient ischaemic attack (TIA) or minor stroke by a stroke consultant. TIA will be defined as a transient episode of neurological dysfunction caused by focal brain, spinal cord or retinal ischaemia, without acute infarction.³⁰ Minor stroke will be defined as a modified Rankin scale score ≤1 or no change in modified Rankin scale score from pre-event (to account for people who were disabled prior to their TIA or minor stroke)*.
- ⇒ Attending the TIA clinic or stroke ward for a new diagnosis of TIA or minor stroke, rather than for a follow-up appointment.
- ⇒ Ability to converse in everyday English and read in English.
- \Rightarrow Capacity to provide fully informed consent for participation in the trial.

Exclusion criteria

- \Rightarrow History of full stroke (modified Rankin scale score >1).
- ⇒ History of dementia.
- People who lack capacity to participate, such as if they have severe memory problems that mean they would not remember giving consent or if they have severe communication problems, not precluding patients who use electronic devices to communicate.
- ⇒ Patients receiving early supported discharge or cardiac rehabilitation.
- ⇒ Patients receiving any palliative care.
- * There is no standardised definition of minor stroke. Our criteria were selected as a practical definition to identify people with good functional recovery after stroke.³¹

Intervention

Intervention development was underpinned by the Behaviour Change Wheel theoretical framework²³ and iteratively refined in collaboration with patient partners and a multidisciplinary team (online supplemental appendix 1, eTable 1).

The multifaceted intervention broadly comprises six components (figure 2):

- 1. Training for nurses and allied health professionals (AHPs) delivering the intervention.
- 2. Structured nurse or AHP led follow-up appointment, 4 weeks after TIA or minor stroke.
- 3. Needs checklist completed by participants prior to the appointment.



This figure has been designed using resources from Freepik.com

Figure 2 Summary of the intervention components. AHP, allied health professional; GP, general practitioner.

- 4. Resources to support management of needs, including a website of resources and support services; list of local support services; and a self-management booklet.
- 5. Action plan.
- 6. Structured letter to general practitioners (GPs) to improve the interface communication between secondary and primary care.

Participants will also receive usual care and a Stroke Association TIA information sheet. Follow-up for TIA and minor stroke is not standardised; therefore, usual care varies between hospitals, GP practices and individual clinicians. Typically, any secondary care follow-up is related to imaging and investigations to determine cause of the TIA/ minor stroke and inform stroke risk prediction; for example, carotid imaging or ECG. Follow-up in primary care usually focuses on secondary prevention, such as medication and lifestyle advice; however, presence and quality of primary care follow-up post-TIA/minor stroke is variable.

Details of the intervention are described below in accordance with the template for intervention description and replication checklist.²⁴ The logic model is depicted in figure 3.

Materials and procedures

Participants randomised to receive the intervention will be invited to a nurse/AHP-led follow-up appointment. Prior to their appointment, participants will be asked to complete a needs checklist, which will be posted to them prior to the appointment. The checklist comprises 12 potential needs which encompass information provision (diagnosis and stroke risk); secondary stroke prevention (medication and lifestyle change); and holistic care (psychological and psychosocial) (online supplemental appendix 2). The checklist is an adapted version of the Stroke Review Checklist²⁵ and was informed by the literature and earlier qualitative research, 7 codesigned with consumers.

The nurse/AHP will use the checklist to guide discussions to identify participants' unmet needs. If multiple needs are identified, priority will be given to addressing needs which the participant considers the most significant.

The nurse/AHP will address needs that can be resolved during the appointment, such as information about driving. For needs that cannot be immediately addressed, the nurse/AHP will, where appropriate, refer or signpost to support services and develop an action plan which will be agreed with the participant. Where possible, the nurse/AHP will make referrals; however, in some circumstances GP referral may be required, in which case this will be requested in the GP letter. To facilitate this, the intervention provider will be provided with a website of resources and support services and a list of local services.

The nurse/AHP will take the participants' blood pressure and, if raised (≥140/90 mm Hg), request for the participant's GP to review blood pressure in the action plan and GP letter.

Intervention component	Mechanism of change	Outputs	Potential outcomes
Training for nurses or AHPs delivering the intervention.	HCPs educated about potential needs after TIA or minor stroke, including health and social consequences. HCPs instructed how to identify and address potential unmet needs, including use of intervention materials.	↑ HCPs knowledge of potential needs and strategies to identify and address needs.	Short term
Structured nurse or AHP led follow-up appointment, 4 weeks after TIA or minor stroke.	Service to provide patients with access to nurse or AHP follow-up.	Patients access holistic care and support for needs related to their TIA or minor stroke. Needs may be actioned immediately (e.g. driving information, reassurance) or an agreed plan for self- management or further support.	Access relevant resources (e.g. websites, apps). Access relevant separates, apps). Access relevant separates, apps). Access relevant separates, apps).
Needs checklist completed by participants prior to the appointment.	Checklist provides patients with the opportunity to reflect on their needs and facilitates communication with the HCP.	Patients' needs are actively identified and acknowledged by the HCP.	Medium term • ↑ medication adherence.
4. Resources to support management of needs, including a website of resources and support services; list of local support services; and a self-management booklet.	↑ knowledge of relevant support services and resources.	Patients are referred or signposted to relevant support services. Patients are recommended relevant resources for their individual needs (e.g. websites, apps).	↑ confidence and ability to self-manage needs. Long term ↑ health related quality of life.
5. Action plan.	Provides an opportunity for shared decision making and goal setting, and empowers patient to access services or resources and/or self-manage.	Patients are given clear actions to self- manage needs or access further support.	↓ or improved residual problems (e.g. anxiety, fatigue). ↓ in stroke risk factors.
6. Structured GP letter	↑ communication between secondary and primary care, and patients and GPs. Patients are empowered to access GP support.	GPs have better understanding of their patients' needs and care received. GPs receive clear recommendations for how to further support patient needs.	

AHP: Allied Health Professional; GP: General Practitioner; HCP: Healthcare provider; TIA: Transient Ischaemic Attack; 1: increase; 4: decrease

Figure 3 Logic model.

If necessary, the nurse/AHP may invite the participant to attend another follow-up appointment, at a suitable time point, to monitor the participant's progress and revise the action plan if required. These additional follow-ups may be conducted by telephone, video call or face to face.

A letter will be sent to the participant's GP along with a copy of the agreed action plan. A letter template will include recommended GP actions, a summary of the appointment and actions taken.

The participant will be provided with a self-management booklet (an abridged version of the resources and services website) and a copy of the action plan and GP letter.

Intervention provider

The intervention will be delivered by a nurse or AHP, with stroke expertise, who are clinical staff at the participating hospital sites. It is anticipated that 1–2 intervention providers will be trained per site; however, this will depend on availability of clinical staff at sties. The nurses and AHPs will attend training which will include education about potential needs after TIA and minor stroke, and how to deliver the intervention. One training session, approximately 2.5 hours) will be provided remotely (via Zoom); however, ad hoc support and feedback will be encouraged after the training.

Setting and modes of delivery

The intervention appointments will be delivered at the site's TIA clinic, either face to face or remotely (eg, telephone or video call). Face-to-face delivery will be preferable where possible.

When and how often

The intervention appointment will take place at 4 weeks (or up to 6 weeks). The appointment is expected to last approximately 30 min. One appointment will be offered initially; however, participants will have an option to attend additional follow-up if judged clinically necessary by the nurse or AHP. There are no predetermined criteria for further follow-up and the criteria used by nurses/AHPs will be recorded as part of the feasibility study to inform future refinement of the intervention.

Control arm

The control group will receive usual care and be given a Stroke Association TIA information sheet when they are informed about their allocation to the control arm.

Recruitment

A member of the clinical team will screen patients' medical records and approach potentially eligible patients face to face or by phone. After confirming eligibility, potential participants will be invited to take part in the study. Informed consent may be taken face to face (for people approached in clinic), by post (for people who need more time to consider participation) or verbally (for people approached via phone). Verbal consent will be clearly documented in the participant's medical records and the participant will also be sent a postal consent form to compete. Sites will receive a per-participant reimbursement for recruitment.

Sample size

The study will aim to recruit 60 participants (30 in the intervention group, 30 in the control group). As this is a feasibility study, no formal sample size calculation has



been performed; however, the sample size is the estimated number that would be feasible to show that we can recruit these types of patients for this type of study.²⁶

Randomisation

Participants will be randomised 1:1 to either the intervention or control group. A minimisation algorithm will be used within an online randomisation system to ensure balance in the treatment allocation using the following variables: age at consent (<60 years, ≥60 years); sex (male, female); diagnosis (TIA, minor stroke); employment (employed, non-employed/retired).

A 'random element' will be included in the minimisation algorithm, so that each patient has a probability, of being randomised to the opposite treatment that they would have otherwise received.

Participants will be randomised at baseline by clinical staff; however, to prevent baseline patient reported outcomes being affected by study arm allocation, participants will be notified of their randomisation allocation after they have returned the 1-week questionnaire or at 3 weeks (if the 1-week questionnaire is not returned). Participants will be notified of their allocation by a letter in the post, which will be sent by the research team at the Trials Unit. Due to the nature of the intervention, it is not possible to blind participants or clinicians delivering the intervention.

Outcomes and data collection

Table 1 summarises the patient reported, health economic and clinical outcome measures. Contact details, demographic information and medical history will be collected at baseline from medical records or participant interview, by a member of clinical staff. Questionnaires comprising Patient-Reported Outcome Measures (PROMs) (table 2) will be completed by participants, either by post or electronically, at 1, 12 and 24 weeks. PROM rationale for assessment and psychometric properties are presented in online supplemental appendix, eTable 2. Questionnaires at 12 and 24 weeks will also collect health economics data. The first PROM completion will be at 1 week rather than baseline due to the nature of the PROM questions and to reduce burden on participants. Clinical data (table 2) will be collected at an end of study clinic appointment at 26 weeks by a research nurse or clinical staff. Where possible, this appointment will be face to face in the TIA clinic; however, may be delivered remotely if face to face is not an option.

Feasibility outcomes and process evaluation

The feasibility study and process evaluation outcomes are detailed in tables 2 and 3. The process evaluation is underpinned by the National Institutes of Health's Behavioural Change Consortium treatment fidelity framework.²⁷ This framework includes five domains

	Data	Timepoint
Baseline data	Contact details	Baseline
	Demographic: date of birth, sex, ethnicity, employment status	
	Medical: diagnosis, date of TIA or minor stroke, modified Rankin scale score, length of stay, smoking status, alcohol consumption, height, weight, body mass index, comorbidities, medication, blood pressure, cholesterol	
Patient-reported outcome measure	Health related quality of life: Patient-Reported Outcomes Measurement Information System-Global Health 10	1, 12 and 24 weeks
	Health related quality of life: 5-level EuroQol 5-Dimensions	
	Anxiety/depression: Hospital Anxiety and Depression Scale	
	Fatigue: Fatigue Assessment Scale	
	Self-efficacy: Patient Activation Measure-13	
	Medication adherence: Medication Adherence Rating Scale-5	
	Satisfaction with overall care after TIA/minor stroke question: 5-point Likert scale (very satisfied – very dissatisfied)	
Health economics	Use of healthcare services	12 and 24 weeks
	Change in employment status, altered work hours and days off sick	
	Other costs incurred because of TIA or minor stroke	
Clinical data	Body mass index	Baseline and 26 week
	Blood pressure	
	Bloods: cholesterol	
	Medications	

Table 2 Feasibility outcomes and mea	asurement of outcomes	
Objective	Feasibility outcomes	Measurement of outcome
(A) Assess feasibility and acceptability of the trial design and methods	No of eligible/ineligible patients and reasons for ineligibility	Recruitment log
	Proportion of participants who consent face to face, verbal or postal	Registration log: method of consent
	Willingness of clinical staff to randomise patients	Interviews (clinical staff involved in randomisation)
	Recruitment and attrition rates	Registration log
	Response rates and frequencies of missing data: participant completed questionnaires and case report forms	1, 12 and 24 weeks questionnaires Case report forms
	End of study clinic appointment attendance rates	End of Study Clinic Appointment Form
	Acceptability of the trial design	Interviews (participants and clinical staff) Structured observations
(B) Provide data to inform the sample size for a definitive randomised controlled trial	SD of continuous patient reported outcome measures at 6 months	Patient reported outcome measure scores
	Recruitment and attrition rates	Registration log
(C) Provide data to help inform selection of the primary outcome measure for a definitive randomised controlled trial	Correlation of patient reported outcome measures	Patient reported outcome measure scores
	Patient reported outcome measure response rates and missing data	1, 12 and 24 weeks questionnaires

of treatment fidelity: Study Design, Training, Delivery, Receipt and Enactment.

Case report forms

The following case report forms will collect data on feasibility outcomes: recruitment log (recruitment rates and reasons for ineligibility); registration log (method of consent: face to face/verbal/ postal); intervention log (attendance rates, duration, number of appointments per participant); end of study clinic appointment form (attendance). Case report forms will be assessed for missing data. The following intervention documents will capture information on needs, what was discussed and action plans: checklist, action plan and GP letter.

Participant completed questionnaires

Participant completed questionnaires (1, 12 and 24 weeks) will be analysed for response rates and missing data. SDs of continuous PROMs at 6 months and correlation of PROMs will inform the sample size and selection of outcome measures for the definitive RCT. The intervention feedback questionnaire will report acceptability of the intervention. A paper copy of the feedback questionnaire and prepaid envelope will be posted to participants after the intervention appointment. This questionnaire contains 5-point Likert scale questions (eg, strongly agree—strongly disagree) and free text questions

about experiences of the checklist, appointment and action plan.

Structured observations

A member of the study team will observe the following study processes: recruitment and consent procedures; intervention appointments; and end of study clinic appointments. Both face to face and remote modes of delivery will be observed for these procedures if possible. A target of three observations will be conducted for recruitment/consent and end of study clinic appointments (one at each site). A target of two intervention appointments will be observed per site (20%). More observations may be conducted if deemed necessary; for example, multiple clinical staff performing each procedure. A pragmatic approach will be taken to select which sessions to observe based on the availability of the research and clinical teams. A checklist will be used to document adherence to the protocol and field notes will be collected.

Audit

At the end of the recruitment period, each site will perform an audit to identify the total number of confirmed TIA and minor stroke patients who attended the TIA clinic or stroke ward during the recruitment period. The age and sex of these patients will also be collected. This data

NIH BCC domain	Objective	Outcome	Measurement of outcome
Study design	d) Investigate acceptability of the intervention for participants and intervention providers	Participants' and intervention providers' opinion on acceptability of the intervention	Interviews (participants and intervention providers) Feedback questionnaire (intervention participants)
	e) Test hypotheses relating to the theoretical underpinning of the intervention	Participants' satisfaction with identification and management of needs	Interviews (participants and intervention providers) Feedback questionnaire (intervention participants)
		Participants acting on agreed action plans and/or accessing support services	Interviews (participants)
Training	f) Assess if intervention providers are adequately trained to deliver the intervention	Intervention providers' understanding of the intervention components	Interviews (intervention providers)
Delivery	g) Assess adherence to the intervention	Intervention providers' adherence to and deviations from the intervention manual	Structured observations Intervention log
	h) Assess contamination with the control group	Control group contamination	Interviews (participants and clinical staff) Structured observations
	i) Define the 'dose' of the intervention	Intervention follow-up appointment: attendance, length of appointment and number of appointments	Intervention log
Receipt	j) Explore how well intervention participants received and understood the intervention	Participants' perception of the intervention	Interviews (participants) Feedback questionnaire (intervention participants)
Enactment	k) Explore to what extent the intervention was enacted as intended by intervention participants	Participants acting on agreed action plans and/or accessing support services	Interviews (intervention participants)

will be used to compare average age and sex of patients recruited to the trial against patients not recruited.

BCC, Behavioural Change Consortium; NIH, National Institutes of Health.

Qualitative interviews

At the end of the study, semistructured interviews will be conducted with a subset of participants and clinical staff involved in recruitment and/or intervention delivery. The sample size is anticipated to be 8-10 patients and 4-6 clinical staff (including those involved in recruitment/consent, intervention delivery and end of study clinic appointments). For patient participants, convenience sampling will be used initially; however, sampling will become increasingly purposeful to achieve variation in age (<60 years, ≥60 years) and diagnosis (TIA, minor stroke). For clinical staff, convenience sampling will be used. Interviews will be conducted by GT, an experienced qualitative researcher. Interviews will be face to face (home/ hospital), telephone or video call, depending on the participants preference. Interviews will explore acceptability of the intervention and trial design. Semistructured topic guides will include discussion of the following:

Patient participants:

- Intervention: intervention and trial design acceptability; how well intervention participants received and understood the intervention; extent to which intervention providers addressed needs; if the action plan was actioned; facilitators and barriers to enactment.
- Control: trial design acceptability; intervention contamination.
- Both: what care/support participants received; understanding what comprised usual care.
- Staff participants: acceptability of the trial design; experience of training day and understanding of the intervention; acceptability of delivering the intervention; facilitators and barriers to implementing both the trial design and the intervention; and experience of contamination with the control group.

Monitoring, adverse events and study oversight

Information on trial monitoring, adverse events and study oversight is presented in online supplemental appendix 4.

Quantitative outcomes will be analysed using simple descriptive statistics (eg, proportions and percentages,

Key uncertainties	Measures used	Progression criteria
Trial design		
Recruitment	% target sample size recruited	► ≥90%: proceed to a full-scale trial
		➤ 70%-89%: SOC will consider the feasibility of proceeding to a full-scale trial bearing in mind the data presented, representativeness of the sample and possible steps to increase recruitment.
		<70%: full-scale trial unlikely to be feasible
Randomisation*	% of consented participants	► ≥90%: proceed to a full-scale trial
	randomised	➤ 70%-89%: SOC will consider the feasibility of proceeding to a full-scale trial bearing in mind the data presented, representativeness of the sample and possible steps to address randomisation issues.
		<70%: full-scale trial unlikely to be feasible
Return rate	% of 24 weeks questionnaires	► ≥80%: proceed to a full-scale trial
	returned	▶ 50%-79%: SOC will consider the feasibility of proceeding to a full-scale trial bearing in mind the data presented, representativeness of the sample and possible steps to increase return rates.
		<50%: full-scale trial unlikely to be feasible
Intervention		
Attendance rate*	% of intervention arm participants attending first appointment	► ≥90%: proceed to a full-scale trial
		➤ 70%-89%: SOC will consider the feasibility of proceeding to a full-scale trial bearing in mind the data presented, representativeness of the sample and possible steps to increase attendance
		<70%: full-scale trial unlikely to be feasible
Delivery of the intervention	% completion of: checklists, action plans, GP letters; use of directory of support services; Issues regarding delivery of the intervention components and contamination explored in qualitative interviews	The SOC will consider the quantitative and qualitative data and make an overall judgement on whether the intervention content is delivered as intended
Acceptability	% of participants reporting acceptability of intervention components on intervention feedback questionnaire; issues regarding acceptability of the intervention components explored in qualitative interviews	The SOC will consider the quantitative and qualitative data and make an overall judgement on whether the intervention is acceptable

mean and SDs) and where appropriate, point estimates of effect sizes (eg, mean differences and relative risks) and associated 95% CIs. Analyses comparing the intervention and control groups will use the intention-to-treat principle, that is, all participants will be analysed in the treatment group to which they were randomised irrespective of compliance or other protocol deviation. Analysis

GP, general practitioner; SOC, Study Oversite Committee.

will be conducted using Stata V.16.

For qualitative data, interviews will be audiorecorded and transcribed verbatim. NVivo V.12 will be used to manage, sort, code and organise the anonymised transcribed data. Interview transcripts will be analysed by GT using directed thematic analysis, using Braun and Clarke's six-stage process, ²⁸ informed by the research aims. ²⁹

The health economics analysis will assess completion rates, estimate resources required to deliver the intervention and report simple descriptive statistics for resource use and outcomes. Key resource use items not currently specified on the form but included by participants will also be identified. The information will inform the cost and outcome data collection and identification of unit costs for a larger trial.

As this project is a training fellowship, the fellow (GT) will conduct the analysis and will have access to the whole dataset in order to conduct the trial. Therefore, it is not possible to conducted blinded analyses.

Data will be made available on reasonable request.



Progression criteria

The predefined progression criteria, detailed in table 4, will be used to inform a decision on whether a full RCT is warranted and feasible. The criteria were agreed by the Study Oversight Committee and follow a traffic light system using quantitative measures supported by qualitative data.

ETHICS AND DISSEMINATION

Favourable ethical opinion was gained from the Wales Research Ethics Committee (REC) 1 (23 February 2021, REC reference: 21/WA/0036). Study results will be published in a peer-reviewed journal and presented at relevant conferences. A lay summary and dissemination strategy will be codesigned with consumers. The lay summary and peer review publication will be distributed on social media.

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Summary of intervention development, underpinned by the theoretical framework - Behaviour Change Wheel

- Select target behaviour: Healthcare provider identifying and addressing needs post-TIA/ minor stroke.
- Identify what needs to change:
 - Semi-structured interviews were conducted with healthcare providers and patients to identify influences on the target behaviour (results reported elsewhere).
 Transcripts were coded using the Theoretical Domains Framework (TDF).
- Map TDF domains to "intervention functions"
 - Four relevant intervention function identified: Education, Training, Environmental restructuring, Enablement.
- Identify Behaviour Change Techniques (BCT):
 - The BCT Taxonomy was used to identity appropriate BCT that mapped to relevant intervention functions.

The above process was informed by relevant literature; iterative feedback from patient partners and a multidisciplinary team (nurses, allied health professionals, GPs, consultants, researcher); and consideration of the APEASE criteria (Affordability, Practicality, Effectiveness and cost-effectiveness, Acceptability, Side-effects/safety, and Equity).

eTable 1: Summary of the barriers/ enablers mapped to Theoretical Domain Framework domains, intervention functions, Behaviour Change Taxonomies and intervention components.

Barriers (B)/ Enablers (E)	TDF	BCW intervention function	ВСТ	SUPPORT TIA Intervention component
HCPs' lack of knowledge of potential needs post-TIA/minor stroke (B). HCPs' perceived role in follow-up care influenced their approach to identifying	Knowledge Social professional role and identity	Education/ Training	Information about health consequences Information about social and environmental	Training for intervention providers
and addressing needs (B/E).	Goal		consequences Information about emotional consequences	
			Instruction on how to perform the behaviour	
			Identity associated with changed behaviour	

Lack of follow-up pathway following rapid hospital specialist review (B).	Environmental context and resources	Environmental restructuring	Restructure physical environment	Structured nurse/AHP-led follow-up appointment
Time constraints (B).	Social professional			
Nurses and AHPs were more holistic in their approach to care (compared to doctors)	role and identity			
and considered this part of their role (E).	Intentions			
Checklists considered useful prompts to identify needs (E).		Environmental restructuring/ Enablement	Prompt/ cues	Needs checklist completed by participants prior to the appointment
HCPs' lack of knowledge of support services and resources to support needs (B).	Knowledge Environmental context and	Environmental restructuring/ Enablement	Instruction on how to perform the behaviour	Resources to support management of needs, including a website of resources
Directories of support services facilitated identification of support services (if up-to-date) (E).	resources		Adding objects to the environment	and support services; list of local support services; and a self- management booklet
Patients feel unsupported after hospital (B).	Social influences	Environmental restructuring/ Enablement	Action planning Goal setting	Action plan
Difficult for patients to		Enablement	Godi Setting	
process and retain information (B).			Problem solving	
Patients attempted to access information and support themselves, but found it overwhelming, confusing,			Pharmacologica I support	
contradictory (B). Restricted communication	Environmental	Environmental	Action planning	Structured GP letter
between primary and secondary care (B).	context and resources	restructuring/ Enablement	Prompts/cues	
Variability in the speed and content of GP letters (B/E)	Social influences			

My **information** and **support needs** after mini-stroke

This is a list of needs that some people have after mini stroke.

Please tick (\checkmark) any areas you have difficulty with, even if you have only experienced it occasionally.

Your follow-up appointment is an opportunity to discuss any worries or problems you might be experiencing, and any advice or information you may need following your mini stroke (TIA) or minor stroke. Please use this list to help you to prepare for your appointment.

Information

1. I need more information about:	Tick here
My diagnosis	
My risk of stroke	
Driving after my mini stroke	

Stroke prevention

2. I need advice on:	Tick here
 Medications for preventing another stroke 	
Medication side effects	
 Lifestyle change, such as exercise or diet, to prevent another stroke 	

Effects of mini-stroke

3. Fatigue	Tick here
 I feel tired most of the time or I get easily tired 	
I find it difficult to concentrate and do things	
4. Mood	
I feel anxious	
I feel depressed	
I experience anger, frustration or mood swings	
I feel that my personality has changed	
5. Memory and thinking	
I find it difficult to think, concentrate, or remember things	

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	INO		
6. Communication			
 I finding it difficult to understand / communicate w 	ith others	3	
 I have problems with speech, word finding or talk 	ing to		
others 7. Physical			
I experience muscle weakness or problems with	halance		
	Daiai iC C		\dashv
I have headaches			
I am sensitive to noise or light			
8. Incontinence			
I am having a problem controlling my bladder or b Output Descriptions Output Descriptions Output Descriptions Output Descriptions Descriptions	ooweis		
9. Intimate relationships			
 Since my mini stroke I have problems with sex 10. Work or education 			
I am having problems at work or education			
I would like support and advice on returning to wo	ork or		\dashv
education	JIK 01		
11. Relationships with family or friends			
 My personal relationships with my family or friend become difficult or stressed 	ds have		
12. Social activities or daily tasks			
 I find it difficult to take part in hobbies or leisure a 	ctivities		
I have difficulty doing daily tasks			
, , ,			
Which of the needs you identified above is your big	gest con	cern?	
<u> </u>			
Is there anything else you are concerned about or vinformation about?	vould like	more	
Please bring this list to your follow-up a	ppointm	ent	

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eTable 2: Summary of proposed Patient Reported Outcome Measures (PROMs) for the main Randomised Controlled Trial.

Domain	PROM	Summary	Rationale
Health	PROMIS-	Questions: 10	Recommended by
related	Global	Scoring: 5-point Likert + 10 point Likert pain question.	the International
quality of	Health 10	Scored using item-level calibrations- use the Health	Consortium for
life		Measures Scoring Service	Health Outcomes
		MID: none specified	Measurement
		Permissions: publicly available for use	(2016) as part of a
		, , , , , , , , , , , , , , , , , , , ,	consensus stroke
			measure standard
			set
Health	EQ-5D-5L	Questions: 5 + 1 VAS (20 cm)	Used to calculate
related		Scoring: 5-point Likert scale and VAS. Score = 0-1	Quality Adjusted
quality of		MID: for stroke: 0.08 to 0.12	Life Years for health
life		Permissions: licence agreement needed (€600)	economics analyses
Anxiety/	HADS	Questions: 14	Widely used in TIA/
depression	117103	Scoring: 4-point Likert Scale. 0-7 = Normal; 8-10 =	minor stroke
depression		Borderline abnormal; 11-21 = Abnormal	research,
		MID: none specified	comprehensive
		·	
		Permissions: license agreement needed (0-1000	psychometric
Eatigue	FAS	participants= £0.85 each) Questions: 10	evaluation
Fatigue	FAS	•	Systematic review of
		Scoring: 5-point Likert Scale; Score = 10 (lowest fatigue)	fatigue scales for
		to 50 (highest fatigue). 10-21: no fatigue (normal), 22-	stroke scales
		50: substantial fatigue	identified the FAS
		MID: at least 4 points or 10% change of the baseline	had the best test-
		value	retest reliability
		Permissions: must acknowledge the ild care foundation	
		in the manuscript, FAS needs to be added as a keyword	
		in the final publication, and PDF of the final publication	
		must be send to the ild care foundation:	
		info@ildcare.nl	
Self-efficacy	PAM-13	Questions: 13	Used by NHS
		Scoring: 5-point Likert Scale; Score 1-100: 4 Levels:	England
		Level 1 ≤47.0 (not believing activation is important),	
		Level 2 47.1–55.1 (a lack of knowledge and confidence	
		to take action), Level 3 55.2–67.0 (beginning to take	
		action), level 4 ≥67.1 (taking action)	
		MID: not specified	
		Permissions: licence agreement NOT needed for	
		feasibility studies	
Medication	MARS-5	Questions: 6	Validated in stroke
adherence		Scoring: 5-point Likert scale, score= 5 to 25 (higher	patients, widely
		scores= higher self-reported adherence)	used
		MID: not specified	
		Permissions: Free access (subject to adequate citation)	
		for Academic users	
Satisfaction	Satisfaction	Not applicable- non-validated bespoke question	
with care	with care	, ,	
	question		

EQ-5D-5L: 5-level EuroQol 5-Dimensions; FAS: Fatigue Assessment Scale; HADS: Hospital Anxiety and Depression Scale; MARS-5: Medication adherence: Medication Adherence Rating Scale -5; MID: Minimally Important Difference; NHS: National Health Service; PAM-13: Patient Activation Measure-13; PDF: Portable Document Format; TIA: Transient Ischaemic Attack; VAS: Visual Analogue Scale

Protocol: additional information

Trial Steering Committee, Data Monitoring Committee and Study Oversight Committee

There will be no Trial Steering Committee or Data Monitoring Committee, the Study Oversight Committee will take the role of a joint Trial Steering Committee and Data Monitoring Committee.

The role of the independent Study Oversight Committee is to provide overall oversight of the trial, including the practical aspects of the study, as well as ensuring that the study is run in a way which is both safe for the patients and provides appropriate feasibility data to the sponsor and investigators.

The Study Oversight Committee will receive only aggregate data and will be blinded to the treatment allocation until the final analysis is presented. Members are independent of the investigators, their employing organisations, funders and sponsors. The Study Oversight Committee will report directly to the Trial Management Group.

Adverse events

The collection and reporting of Adverse Events will be in accordance with the UK Policy Framework for Health and Social Care Research and the requirements of the Health Research Authority. Definitions of different types of Adverse Events are listed in the table of abbreviations and definitions.

No risks are expected to arise from taking part in the trial. There are no Investigational Medicinal Products being used as part of the SUPPORT TIA trial. The intervention is considered low risk and consists of a nurse/AHP-led follow-up appointment which has been used in other populations and settings without evidence of harm. No Serious Adverse Events are anticipated as a unique consequence of participation in the SUPPORT TIA trial, but reporting requirements are clearly outlined in this section.

Adverse Events: There may be certain Adverse Events which are commonly expected in participants who have suffered a TIA or minor stroke. However, as these events are well characterised, it is highly unlikely that this trial will reveal any new safety information relating to this intervention. Therefore, we will not be collecting non-serious Adverse Events for this trial.

Serious Adverse Advents: Investigators should only report Serious Adverse Events which are attributable to the trial intervention. The above events are not considered related to the trial intervention and are therefore excluded from notification to the SUPPORT TIA Trial Office as Serious Adverse Events. These events should continue to be recorded in the medical records according to local practice. We are only reporting Serious Adverse Events which are attributable to the trial intervention; therefore, the control group will not be monitored.

Participant Withdrawal

Participants will be made aware at the beginning that they can freely withdraw (discontinue participation) from the trial (or part of) at any time. Types of withdrawal as defined are:

The participant would like to withdraw from trial treatment, but is willing to be followed up
in accordance with the schedule of assessments and, if applicable, using any central UK
NHS bodies for long-term outcomes (i.e. the participant has agreed that data can be
collected and used in the trial analysis).

- The participant would like to withdraw from trial treatment and does not wish to attend trial visits in accordance with the schedule of assessments but is willing to be followed up at standard clinic visits and, if applicable, using any central UK NHS bodies for long-term outcomes (i.e. the participant has agreed that data can be collected at standard clinic visits and used in the trial analysis, including data collected as part of long-term outcomes).
- The participant would like to withdraw from trial treatment and is not willing to be followed up in any way for the purposes of the trial and for no further data to be collected (i.e. only data collected prior to the withdrawal can be used in the trial analysis).

The details of withdrawal (date, reason and type of withdrawal) will be clearly documented in the study discontinuation form.

Note: participants involved in the qualitative sub-study may only withdraw from this part of the study up to the point of data analysis (five working days following the interview). After this point, it will not be possible to extract an individuals' interview data from the analyses.

Monitoring

Monitoring will be conducted as required following a risk assessment by the trials unit. Given the low-risk nature of this trial, central monitoring will be routine and no onsite monitoring is planned.

Onsite Monitoring: For this trial, no onsite monitoring is planned due to the low risk of the intervention and nature of the outcome data.

Central Monitoring: Trials staff will be in regular contact with the site research team to check on progress and address any queries that they may have. Recruitment rates, per site, will be monitored on a monthly basis. Trials staff will check incoming Informed Consent Forms and Case Report Forms for compliance with the protocol, data consistency, missing data and timing. Sites will be sent Data Clarification Forms requesting missing data or clarification of inconsistencies or discrepancies. Sites will be requested to send in copies of signed Informed Consent Forms and other documentation for in-house review for all participants providing explicit consent. Structured observations will be conducted as part of the trial of recruitment and consent procedures; intervention appointments; and end of study clinic appointments. Reports from these observations will be used to monitor protocol compliance.

Audit and Inspection: The Investigator will permit trial-related monitoring, audits, ethical review, and regulatory inspection(s) at their site, providing direct access to source data/documents. The investigator will comply with these visits and any required follow up. Sites are also requested to notify Birmingham Clinical Trials Unit (BCTU) of any relevant inspections.

Protocol amendments

If the Chief Investigator wishes to make a substantial amendment to the Research Ethics Committee (REC) application or the supporting documents, the Chief Investigator will submit a valid notice of amendment to the REC for consideration. It is the Sponsor's responsibility to decide whether an amendment is substantial or non-substantial for the purposes of submission to the REC.

Amendments will be notified to the REC and Health Research Authority (HRA), and communicated to the participating organisations (R&D office and local research team) departments of participating sites to assess whether the amendment affects the NHS permission for that site. The amendment history will be tracked to identify the most recent protocol version.

Confidentiality

Personal data recorded on all documents will be regarded as strictly confidential and will be handled and stored in accordance with the Data Protection Act 2018.

Participants will be identified using their unique trial identification number in correspondence between the site and BCTU. Participants will give their explicit consent for the movement of their consent form, giving permission for BCTU to be sent a copy. This will be used to perform in-house monitoring of the consent process. Participants will provide their personal contact details to the central research team at BCTU so they are able to contact the participants for follow-up questionnaires.

The Investigator must maintain documents not for submission to BCTU in strict confidence. In the case of specific issues and/or queries from the regulatory authorities, it will be necessary to have access to the complete trial records, provided that participant confidentiality is protected.

BCTU will maintain the confidentiality of all participant's data and will not disclose information by which participants may be identified to any third party, with the exception of the transcription service. A professional transcription company that already works with the University of Birmingham will transcribe the audio files. This company will be required to sign a confidentiality agreement before any files are sent to them. A member of the research team will check the transcripts once received from the transcription company and remove any names/ identifiers from the documents. Once the accuracy of the transcriptions has been confirmed, the original recordings will be deleted.

Representatives of the SUPPORT TIA trial team and sponsor may be required to have access to participant's notes for quality assurance purposes but participants should be reassured that their confidentiality will be respected at all times.

For participants involved in the qualitative aspects of the study, we will ask their permission to audio record the study interview using a digital recording device. We will then ask a reputable company to produce a written version of the recording called a transcript. The transcript company will need to sign a confidentiality agreement before they do so. We will then anonymise the transcript, removing all identifying information. After this, we will delete the original recording. We will only use anonymised quotes from the transcript in any arising publications or reports.

The research team will hold personal contact data for participants wishing to receive a summary of the results of the study - we anticipate this will be made available within 12 months of completion of the study. We will delete participants' contact details when the data is archived, meaning no personal identifiable data, other than study consent forms, will be retained.

There is potential that participants may disclose information that either indicates a risk or harm to themselves or others, evidence of malpractice or criminality. Participants will be informed in the Participant Information Sheet that if they disclose any of these issues, this will be reported to appropriate authorities.

Dissemination: Authorship eligibility guidelines and any intended use of professional writers

Publication policy: Results of this trial will be submitted for publication in a peer reviewed journal. The manuscript will be prepared by the Chief Investigator and authorship will be determined by the trial publication policy. No professional writers will be used.

Informed consent materials: Model consent form

I have read and understood the participant informa	read and understood the participant information sheet (Version 3.0, Dated 06/09/2021).				
I have had the opportunity to take time to consider my involvement in the trial and I have had the chance to ask questions, all of which have been answered to my satisfaction.					
I understand that my involvement in the trial is voluntary, and I am free to withdraw at any time without the quality of my medical care or my legal rights being affected.					
I understand that if I decide to withdraw from the trial, any information that has already been collected and anonymised may be used for analysis and publication.					
I understand a copy of this consent form and my data collected during the trial will be transferred to the central trials office at the Birmingham Clinical Trials Unit (BCTU), part of the University of Birmingham.					
I understand that all information collected will be used for medical research only and that I will not be identified in any way in the analysis and reporting of results. The personal information will include name, gender, date of birth, contact details and NHS number as well as medical information and study outcome assessments. It will be held securely and confidentially at BCTU. I give permission for the transfer and storage of this data.					
I understand that relevant sections of my medical notes, information related directly to my participation in this trial, and data collected during the trial may be looked at by individuals from the University BCTU trial team, representatives of the sponsor, regulatory authorities, and the NHS Trust/Health Board where it is relevant to my taking part in this research. I give permission for these individuals to have access to my records.					
I understand that my data collected during the trial may be shared with academic collaborative third parties who will help with the study's analysis. Before sharing, my personal identifiers (e.g. name, date of birth, contact details) will be removed and replaced with a trial number.					
I understand that my name and contact details will be used by the study team to contact me regarding the study. This may include, but not limited to, request additional information such as missing data on questionnaires I have completed.					
I understand that the research team have a duty to inform appropriate authorities if I disclose information that either indicates a risk or harm to myself or others, evidence of malpractice or criminality. In this circumstance confidentiality may be broken.					
I give permission to my GP being informed about my participation in the SUPPORT TIA Trial					
I voluntarily agree to take part in this study.					
Optional: I agree to be contacted to be invited for an interview about my involvement in the study and agree to my contact details being passed on to the research team at the University of Birmingham for them to contact me about this interview					
<i>Optional:</i> I would like to be sent a summary of the findings from the study and consent to my contact details to be held until this summary has been sent.					
Name of Participant	Signature	Date (DD/MMM/YYYY)	_		
Name of Person taking Consent	Signature	Date (DD/MMM/YYYY)	F		