

# Maximising the impact of speech and language therapy for children with speech sound disorder

<b>Submission date</b> 30/03/2022	<b>Recruitment status</b> No longer recruiting	<input type="checkbox"/> Prospectively registered <input type="checkbox"/> Protocol
<b>Registration date</b> 13/06/2022	<b>Overall study status</b> Completed	<input type="checkbox"/> Statistical analysis plan <input checked="" type="checkbox"/> Results
<b>Last Edited</b> 10/03/2025	<b>Condition category</b> Other	<input type="checkbox"/> Individual participant data

## Plain English summary of protocol

### Background and study aims

Every year over 70,000 children with speech sound disorders receive different types of speech and language therapy. We don't know which is most effective. We want to collect information which will help us work out which type works best. This study will enable us to agree what information we should collect.

Many children have difficulties learning to speak and some of these have a speech sound disorder. These children can be difficult to understand or sound different to their friends. If their problems persist, they are less likely to do well in school and may struggle to make friends or get jobs in adulthood.

### Who can participate?

This study is open to qualified speech and language therapists working with specialist experience of working with children with speech sound disorder (SSD) in NHS services.

### What does the study involve?

We will use information from previous research to work out what information would be helpful to collect. We will run workshops with speech and language therapists and also with young people and parents of children with speech sound disorders to find out what information they think we should collect. A panel of experts will help us to establish a process for collecting information from NHS services. This will mean that information can be compared across NHS services. We will be able to list the different types of therapy and record the amount of progress children make. We will use this information to determine which types are most effective.

### What are the possible benefits and risks of participating?

Taking part in this research will help this study to achieve its aim of improving the efficiency and effectiveness of NHS SLT services for children with SSD, and their families.

Your participation in this research can be recorded as a Continuing Professional Development (CPD) activity.

During the conversations with other professionals in the workshop different opinions may be shared, which could make some participants feel uncomfortable. Members of the study team are trained in conflict management and will be able to support the discussions in a way that means everyone can share their views and have open, positive and constructive discussions.

Taking part in this workshop will mean you need to take around 6 hours out of work. This time is compensated to your clinical service by the study. We can also provide funding towards childcare to support you to take part in the workshops.

Where is the study run from?

Bristol Speech and Language Therapy Unit (BSLTRU) (UK)

When is the study starting and how long is it expected to run for?

March 2022 to August 2023

Who is funding the study?

This study is part of a larger project funded by a National Institute for Health Research (NIHR) Research for Patient Benefit (RfPB) study (ref NIHR202766) (UK)

Who is the main contact?

Senior Research Associate Dr Sam Burr, sam.burr@nbt.nhs.uk

### **Study website**

<https://www.nbt.nhs.uk/bristol-speech-language-therapy-research-unit/bsltru-research/misltoe-ssd>

## **Contact information**

### **Type(s)**

Scientific

### **Contact name**

Dr Sam Burr

### **ORCID ID**

<http://orcid.org/0000-0002-4177-2459>

### **Contact details**

Bristol Speech and Language Therapy Research Unit (BSLTRU)

Pines and Steps

Southmead Hospital

Bristol

United Kingdom

BS10 5NB

+44 117 41 43951

sam.burr@nbt.nhs.uk

## **Additional identifiers**

EudraCT/CTIS number

Nil known

**IRAS number**

313900

**ClinicalTrials.gov number**

Nil known

**Secondary identifying numbers**

IRAS 313900, CPMS 52574

## Study information

**Scientific Title**

MISLToe\_SSD: Maximising the Impact of Speech and Language Therapy services for children with Speech Sound Disorder

**Acronym**

MISLToe\_SSD

**Study objectives**

76,000 children with Speech Sound Disorder (SSD) are referred to speech and language therapy (SLT) in the UK every year. Untreated, SSD leads to poor outcomes in education, employment, and mental health. SLT intervention in the UK is delivered via care pathways and these are often resource rather than evidence-driven and there is significant national variation. There is a pressing need to identify which care pathways are most effective and efficient within NHS service constraints to improve outcomes and maximise cost-effectiveness. Before we can determine which care pathways are most effective and efficient, we must establish a Core Outcomes Set (COS) and minimum dataset.

The objectives of this develop work are therefore to:

1. Develop a protocol for collection of a COS and minimum dataset for children with SSD;
2. Agree a standard diagnostic process for identifying subtypes of SSD;
3. Determine the range and specification of interventions for SSD in UK NHS SLT services;
4. Identify the process for future health economic analysis.

**Ethics approval required**

Old ethics approval format

**Ethics approval(s)**

This study does not require ethics approval because it involves solely NHS staff as participants.

**Study design**

Multicentre qualitative study

**Primary study design**

Other

**Secondary study design**

**Study setting(s)**

Other

**Study type(s)**

Other

**Participant information sheet**

Not available in web format, please use contact details to request a participant information sheet.

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

Participants will be qualified professional speech and language therapists with specialist knowledge of working with children with speech sound disorders (SSD). They will take part in a virtual workshop to discuss and agree a standard process for assessing and diagnosing speech sound disorder in children. They will agree a list of interventions for SSD and which ones should be used to treat the different sub-types of SSD. Participants will also be invited to complete an online survey and online card sorting activity to agree labels and descriptions for each of the interventions. A further participant activity will involve a modified Delphi study during which a panel of expert SLTs and academics will agree the diagnostic process, interventions and outcomes to form a Core Outcome Set for SSD.

**Interventions**

Umbrella review of current literature to inform content for the COS and minimum dataset.  
Participatory workshop with parents and SLTs to agree the diagnostic process for SSD.  
Expert panel of SLTs and parents to agree a final COS and minimum dataset.

**Intervention Type**

Other

**Primary outcome measure**

A comprehensive list of speech sound assessments and interventions, used with children between x and Y, at any point in their treatment pathway. This will be elicited through discussion with the focus group members, and supplemented through a list compiled by the research team through a prior umbrella review.

These outcomes and assessments will then be reviewed using a nominal-group/Delphi technique to understand which of the assessments and interventions are most commonly used in practice.

**Secondary outcome measures**

There are no secondary outcome measures

**Overall study start date**

01/03/2022

**Completion date**

28/02/2024

**Eligibility****Key inclusion criteria**

1. Any gender, age, ethnicity or socio economic grouping.
2. Any qualified SLT
3. HCPC/RCSLT registered
4. Specialism or special interest in working with children with SSD

**Participant type(s)**

Health professional

**Age group**

Adult

**Sex**

Both

**Target number of participants**

5

**Total final enrolment**

6

**Key exclusion criteria**

Unqualified or unregistered SLTs (HCPC/RCSLT).  
SLT with no experience of working with children with SSD.

**Date of first enrolment**

01/06/2022

**Date of final enrolment**

01/10/2022

**Locations****Countries of recruitment**

England

Scotland

United Kingdom

**Study participating centre**

**Northumbria Healthcare NHS Foundation Trust**

Speech and Language Therapy

Albion Road Resource Centre

North Shields

United Kingdom

NE29 0HG

**Study participating centre****Solent NHS Trust**

Solent NHS Trust Headquarters  
Highpoint Venue  
Bursledon Road  
Southampton  
United Kingdom  
SO19 8BR

**Study participating centre****Northern Lincolnshire and Goole NHS Foundation Trust**

Diana Princess of Wales Hospital  
Scartho Road  
Grimsby  
United Kingdom  
DN33 2BA

**Study participating centre****Sirona Care & Health**

2nd Floor Kingswood Civic Centre, High Street, Kingswood,  
Bristol  
United Kingdom  
BS15 9TR

**Study participating centre****NHS Lothian**

Waverley Gate  
2-4 Waterloo Place  
Edinburgh  
United Kingdom  
EH1 3EG

## **Sponsor information**

**Organisation**

North Bristol NHS Trust

**Sponsor details**

Research and Innovation  
Southmead Hospital  
Bristol

England  
United Kingdom  
BS10 5NB  
+44 1174149330  
researchsponsor@nbt.nhs.uk

**Sponsor type**

Hospital/treatment centre

**Website**

<http://www.nbt.nhs.uk/>

**ROR**

<https://ror.org/036x6gt55>

## **Funder(s)**

**Funder type**

Government

**Funder Name**

National Institute for Health Research

**Alternative Name(s)**

National Institute for Health Research, NIHR Research, NIHRresearch, NIHR - National Institute for Health Research, NIHR (The National Institute for Health and Care Research), NIHR

**Funding Body Type**

Government organisation

**Funding Body Subtype**

National government

**Location**

United Kingdom

## **Results and Publications**

**Publication and dissemination plan**

We will report the results of our research at two conferences for speech and language therapists (one national and one international) and in academic journals. We will ask our PPI partners to help with dissemination via social media.

**Intention to publish date**

28/08/2024

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

The datasets generated during and/or analysed during the current study are not expected to be made available due to participant confidentiality.

**IPD sharing plan summary**

Not expected to be made available

**Study outputs**

Output type	Details	Date created	Date added	Peer reviewed?	Patient-facing?
<a href="#">Results article</a>		29/04/2024	10/03/2025	Yes	No