

# A primary school research study to establish whether Social Stories™ can improve social and emotional health in children with autism spectrum disorder

<b>Submission date</b> 08/04/2019	<b>Recruitment status</b> No longer recruiting	<input type="checkbox"/> Prospectively registered <input checked="" type="checkbox"/> Protocol
<b>Registration date</b> 23/04/2019	<b>Overall study status</b> Completed	<input type="checkbox"/> Statistical analysis plan <input checked="" type="checkbox"/> Results
<b>Last Edited</b> 19/12/2024	<b>Condition category</b> Mental and Behavioural Disorders	<input type="checkbox"/> Individual participant data

## Plain English summary of protocol

Current plain English summary as of 04/07/2020:

### Background and study aims

Children with autistic spectrum disorder (ASD) have a higher prevalence of mental health problems than typically developing children, including anxiety and low mood, disruptive, and repetitive behaviours. Research shows that severe social difficulties represent a cost to the NHS and social care across childhood and adulthood (NICE, 2013; National Audit Office, 2009). Social Stories™ are purported to promote calmer classrooms with improved learning/better integration in special and mainstream education settings, and improved social behaviours. Using Social Stories™, children with ASD have shown improvements across a range of behaviours including social interaction, decision making, reduced disruptive behaviours, tantrums and frustration. The aim of this study is to find out whether Social Stories™ can improve social responsiveness in children with ASD in primary schools.

### Who can participate?

Children aged 4-11 who attend a school in Yorkshire and Humber and who have a diagnosis of ASD and daily challenging behaviour

### What does the study involve?

Parents and teachers complete questionnaires at three times: at the beginning of the study (baseline), six weeks into the study and six months into the study. These questionnaires collect information about demographics, the social responsiveness of the child, quality of life and health resource use. After the baseline questionnaires have been completed for all participants at the school, the school is randomly assigned to either the Social Stories™ intervention or to the control arm (which is care as usual (CAU) by the school). Assignment is decided at random by a computer and children receive all other treatment or support as usual regardless of allocation. If the school gets allocated to the intervention, a teacher is trained to write and read a Social Story™ to the participating child at least 6 times in 4 weeks. If the school is allocated to the control group, the school continues supplying the care they have been given. However, once all

the data has been collected from CAU schools (after the 6 month questionnaires have been completed) the Social Stories™ training and manual are offered to CAU schools and parents.

What are the possible benefits and risks of participating?

Using the Social Stories™ may help the child with their behaviour. Participants are offered free workshops on the writing and use of Social Stories™ either as part of the intervention group or as part of the control group after data collection is completed. As a thank you for taking part the families will also receive a £20 voucher. Some parents may find talking about autism distressing. Some children may not want to read or be involved with Social Stories™. If at any time a participating child feels that the actual or perceived distress is too great they can withdraw from the study.

Where is the study run from?

Primary schools across Yorkshire and Humber.

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

July 2018 to May 2022

Who is funding the study?

National Institute for Health Research (NIHR) (UK)

Who is the main contact?

1. Dr Jane Blackwell  
Jane.Blackwell2@nhs.net

2. Dr Kerry Bell  
Kerry.Bell@york.ac.uk

3. Dr Catarina Teige  
c.teige@nhs.net

4. Prof. Barry Wright  
Barry.Wright1@nhs.net

Previous plain English summary:

Background and study aims

Children with autistic spectrum disorder (ASD) have a higher prevalence of mental health problems than typically developing children, including anxiety and low mood, disruptive, and repetitive behaviours. Research shows that severe social difficulties represent a cost to the NHS and social care across childhood and adulthood (NICE, 2013; National Audit Office, 2009). Social Stories™ are purported to promote calmer classrooms with improved learning/better integration in special and mainstream education settings, and improved social behaviours. Using Social Stories™, children with ASD have shown improvements across a range of behaviours including social interaction, decision making, reduced disruptive behaviours, tantrums and frustration. The aim of this study is to find out whether Social Stories™ can improve social responsiveness in children with ASD in primary schools.

Who can participate?

Children aged 4-11 who attend a school in Yorkshire and Humber and who have a diagnosis of ASD and daily challenging behaviour

What does the study involve?

Parents and teachers complete questionnaires at three times: at the beginning of the study (baseline), six weeks into the study and six months into the study. These questionnaires collect information about demographics, the social responsiveness of the child, quality of life and

health resource use. After the baseline questionnaires have been completed for all participants at the school, the school is randomly assigned to either the Social Stories™ intervention or to the control arm (which is care as usual (CAU) by the school). Assignment is decided at random by a computer and children receive all other treatment or support as usual regardless of allocation. If the school gets allocated to the intervention, a teacher is trained to write and read a Social Story™ to the participating child at least 6 times in 4 weeks. If the school is allocated to the control group, the school continues supplying the care they have been given. However, once all the data has been collected from CAU schools (after the 6 month questionnaires have been completed) the Social Stories™ training and manual are offered to CAU schools and parents.

What are the possible benefits and risks of participating?

Using the Social Stories™ may help the child with their behaviour. Participants are offered free workshops on the writing and use of Social Stories™ either as part of the intervention group or as part of the control group after data collection is completed. As a thank you for taking part the families will also receive a £20 voucher. Some parents may find talking about autism distressing. Some children may not want to read or be involved with Social Stories™. If at any time a participating child feels that the actual or perceived distress is too great they can withdraw from the study.

Where is the study run from?

Child Oriented Mental health Intervention Centre (COMIC) (UK)

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

July 2018 to December 2021

Who is funding the study?

National Institute for Health Research (NIHR) (UK)

Who is the main contact?

1. Dr Catarina Teige

c.teige@nhs.net

2. Prof. Barry Wright

barry.wright1@nhs.net

## Contact information

### Type(s)

Scientific

### Contact name

Dr Jane Blackwell

### Contact details

COMIC research team

IT centre

Innovation Way

Science Park

Heslington

United Kingdom

YO10 5NP  
+44 (0)1904 294244  
Jane.blackwell2@nhs.net

**Type(s)**  
Scientific

**Contact name**  
Prof Barry Wright

**Contact details**  
COMIC research team  
IT centre  
Innovation Way  
Science Park  
Heslington  
United Kingdom  
YO10 5NP  
+44 (0)1904 294244  
barry.wright1@nhs.net

## **Additional identifiers**

**Clinical Trials Information System (CTIS)**  
Nil known

**ClinicalTrials.gov (NCT)**  
Nil known

**Protocol serial number**  
40949

## **Study information**

**Scientific Title**  
Autism Spectrum Social Stories™ In Schools Trial 2 (ASSIST2)

**Acronym**  
ASSIST2

### **Study objectives**

This study is a randomised controlled trial (cluster randomised by school) to establish whether Social Stories™ are clinically and cost-effective in improving child social impairment, reducing challenging behaviour and improving social and emotional health in children with ASD in primary schools.

Hypothesis: The researchers hypothesise that Social Stories™ delivered in a school setting ( $\geq 6$  times in a 4 week period) compared with the school's standard care program will have a greater benefit to social and emotional health in children with autism spectrum disorder.

## **Ethics approval required**

Old ethics approval format

## **Ethics approval(s)**

1. Approved 03/09/2018, Department of Health Sciences' Research Governance Committee (HSRGC) (University of York, Heslington, York, YO10 5DD; +44 (0)1904 323253; stephen.holland@york.ac.uk), ref: HSRGC/2018/286/D
2. Approved 24/07/2019, HRA and Health and Care Research Wales (HCRW) (Health Research Authority, Ground Floor, Skipton House, 80 London Road, London, SE1 6LH; hra.approval@nhs.net; approvals@wales.nhs.uk), ref: 19/NE/0237

## **Study design**

Randomized; Both; Design type: Treatment, Education or Self-Management, Qualitative

## **Primary study design**

Interventional

## **Study type(s)**

Treatment

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

Childhood autism

## **Interventions**

The trial design is a cluster randomised controlled trial with an internal pilot comparing the Social Story™ intervention with care as usual. Trial participants are 4-11-year-old primary school children with a diagnosis of an autism spectrum disorder. The planned sample size is 278 and the primary follow-up will be 6 months post randomisation.

### **Social Stories intervention**

Participating children allocated to the intervention group will have a Social Story™ delivered to them by a teacher or TA professionally trained in Social Stories™ (the interventionist) for a period of approximately 4 weeks alongside their usual care which is likely to vary between schools. The interventionist will deliver the Social Story™ at least 6 times in this 4-week period. The Social Stories™ will be delivered by an educational professional (the interventionist) who is employed by each school allocated to the intervention arm. The interventionist will attend a Social Stories™ training session with our research team providing information on their design and implementation. The schools randomised to the intervention will also be provided with a Social Stories™ training manual. Parents of children randomised to the intervention arm will also be invited to attend these sessions to help with story construction (though this is not a requirement for participation). During the training session the interventionist will construct a Social Story™ with input from the research team.

### **Care as usual**

The children in the comparator arm will receive care as usual (CAU) only. CAU will vary between schools but is likely to include a range of classroom interventions built into a child's learning plan (e.g. picture exchange communication system). The researchers will collect information as to what care has been received in both groups systematically at all timepoints using a resource use case report form. Once the last of the data has been collected from CAU schools (after 6 months), the training and manual described above will be offered to the parents and teachers who are interested.

The trial period is 42 months. The researchers collect data at baseline, 6 weeks after randomisation, and 6 months after randomisation for both treatment arms. There will be an internal pilot study which will run for 10 months to examine the feasibility of recruitment. The pilot period will run for 10 months, at which point the researchers expect to have recruited n=110 of which one third (n=44) will have reached the primary endpoint. Stop/Go criteria based on 100% of the recruitment target will be used to assess the feasibility of continuing the trial. There will be a nested economic evaluation, process evaluation, qualitative component and fidelity assessment.

### **Intervention Type**

Behavioural

### **Primary outcome(s)**

Child social responsiveness measured using the Social Responsiveness Scale, Second Edition (SRS-2)

### **Key secondary outcome(s)**

1. Challenging behaviours measured using a bespoke goal-based outcome measure (validated with blinded observation of 20% of participants in a classroom setting by research assistants at 6 weeks and at 6 months) at 6 months
2. Social and emotional health measured using Revised Children Anxiety and Depression Scale (RCADS) short form at 6 months
3. Cost-effectiveness of Social Stories™ measured using a bespoke resource use questionnaire at 6 months
4. Health-related quality of life measured using a bespoke health care resource use questionnaire and EQ-5D-Y proxy at 6 months
5. Parental stress levels measured using Parental Stress Index (PSI) short form at 6 months
6. Classroom attendance and out of area placements measured using a bespoke questionnaire to determine current school care/education plan interventions and support provided to the child in class at 6 months
7. Sustainability of Social Stories™ measured using a bespoke Social Stories™ sustainability questionnaire at 6 months
8. Treatment preference measured using a bespoke preference questionnaire prior to randomisation at baseline
9. Session delivery measured using a bespoke Social Stories™ session log capturing frequency, length and times; problems or adverse events in the context of delivery at 6 weeks

### **Completion date**

31/05/2022

## **Eligibility**

### **Key inclusion criteria**

1. Aged 4-11 years
2. Attends a school in Yorkshire and Humber
3. Has a research diagnostic criteria diagnosis of ASD and daily challenging behaviour

### **Participant type(s)**

Patient

**Healthy volunteers allowed**

No

**Age group**

Child

**Lower age limit**

4 years

**Upper age limit**

11 years

**Sex**

All

**Total final enrolment**

249

**Key exclusion criteria**

1. The school has used Social Stories™ for the child in the current or preceding school term
2. The child or interventionist teacher has taken part in the ASSSIST feasibility study. The study will not exclude schools that have taken part

**Date of first enrolment**

01/10/2018

**Date of final enrolment**

31/05/2021

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

United Kingdom

England

**Study participating centre****West Specialist Inclusive Learning Centre**

4 Town Street

Pudsey

United Kingdom

LS28 6HL

**Study participating centre****Newlands Primary School**

Wakefield Road

Normanton

United Kingdom  
WF6 1BB

**Study participating centre**  
**Castleton Primary School**  
Green Lane  
Leeds  
United Kingdom  
LS12 1JZ

**Study participating centre**  
**Ashfield Primary School**  
Ceston Lane  
Otley  
United Kingdom  
LS21 2DF

**Study participating centre**  
**Victoria Primary School**  
Cartmel Road  
Keighley  
United Kingdom  
BD21 2RD

**Study participating centre**  
**Thornton Primary School**  
Thornton Road  
Bradford  
United Kingdom  
BD13 3NN

**Study participating centre**  
**High Crag Primary Leadership Academy**  
Crag Road  
Shipley  
United Kingdom  
BD18 2ES

**Study participating centre**



**Lacewood Primary School**

Carr Head Lane  
Rotherham  
United Kingdom  
S63 8DA

**Study participating centre**

**Kirk Sandall Infants and Juniors Schools**

Queen Mary Crescent  
Doncaster  
United Kingdom  
DN3 1JT

**Study participating centre**

**Chiltern Primary School Hull**

Chiltern Street  
Hull  
United Kingdom  
HU3 3PL

**Study participating centre**

**St Wilfrid's Roman Catholic Primary School**

Monkgate  
York  
United Kingdom  
YO31 7PB

**Study participating centre**

**Embsay Church of England Primary School**

Pasture Road  
Skipton  
United Kingdom  
BD23 6RH

**Study participating centre**

**Oatlands Community Junior School**

Beechwood Grove  
Harrogate  
United Kingdom  
HG2 8QP

**Study participating centre**

**Mowbray School**

Masham Road  
Bedale  
United Kingdom  
DL8 2SD

**Study participating centre**

**Luttons Community Primary School**

West Lutton  
Malton  
United Kingdom  
YO17 8TF

**Study participating centre**

**Aspin Park Academy**

Wetherby Road  
Knaresborough  
United Kingdom  
HG5 8LQ

**Study participating centre**

**Roecliffe Church of England Primary School**

Roecliffe  
York  
United Kingdom  
YO51 9NB

**Study participating centre**

**Riverside Community Primary School**

Wetherby Road  
Tadcaster  
United Kingdom  
LS24 9JN

**Study participating centre**

**Thomas Hinderwell Primary Academy**

Seamer Road  
Scarborough

United Kingdom  
YO12 4HF

**Study participating centre**  
**Sutton in Craven CP School**  
Bridge Road  
Keighley  
United Kingdom  
BD20 7ES

**Study participating centre**  
**Saint Mary's Catholic Primary Voluntary Academy**  
Wellington Street  
Grimsby  
United Kingdom  
DN32 7JX

**Study participating centre**  
**St Augustine Webster Catholic Voluntary Academy**  
Bailden Road  
Scunthorpe  
United Kingdom  
DN15 8BU

**Study participating centre**  
**Signhills Infant Academy and Signhills Academy**  
33 Hardys Road  
Cleethorpes  
United Kingdom  
DN35 0DL

**Study participating centre**  
**Lisle Marsden Church of England Primary Academy**  
Lansdowne Avenue  
Grimsby  
United Kingdom  
DN32 0DF

**Study participating centre**

**Castle Academy**  
Station Road  
Conisbrough  
Doncaster  
United Kingdom  
DN12 3DB

**Study participating centre**  
**Brinsworth Whitehill Primary School**  
Howlett Dr  
Brinsworth  
United Kingdom  
S60 5HT

**Study participating centre**  
**East Dene Primary**  
Doncaster Rd  
Rotherham  
United Kingdom  
S65 2DF

**Study participating centre**  
**Scawsby Saltersgate Infant School**  
Windsor Walk  
Doncaster  
United Kingdom  
DN5 8NQ

**Study participating centre**  
**Seamer and Irton Community Primary School**  
Denison Avenue  
Seamer  
Scarborough  
United Kingdom  
YO12 4QX

**Study participating centre**  
**Whitley and Eggborough Community Primary School**  
Learning Lane

Goole  
United Kingdom  
DN14 0WE

**Study participating centre**  
**Friarage Community Primary School**  
Friargate  
Scarborough  
United Kingdom  
YO11 1HS

**Study participating centre**  
**Cockburn Haig Road Academy**  
Haigh Road  
Rothwell  
Leeds  
United Kingdom  
LS26 0NQ

**Study participating centre**  
**Manston St James Primary Academy**  
Sandbed Lane  
Leeds  
United Kingdom  
LS15 8JH

**Study participating centre**  
**Windmill Church of England Primary School**  
Upper Batley Lane  
Batley  
United Kingdom  
WF17 0NP

**Study participating centre**  
**Oxspring Primary School**  
Sheffield Road  
Oxspring  
Sheffield  
United Kingdom  
S36 8YW

**Study participating centre**  
**Athelstan Primary School**  
Richmond Park Way  
Sheffield  
United Kingdom  
S13 8HH

**Study participating centre**  
**Wetwang Church of England Primary School**  
21 Pulham Lane  
Drifffield  
United Kingdom  
YO25 9XT

**Study participating centre**  
**Stokesley Primary Academy**  
5 Springfield  
Stokesley  
Middlesbrough  
United Kingdom  
TS9 5EW

**Study participating centre**  
**Our Lady of Sorrows Catholic Voluntary Academy**  
Mere Lane  
Armthorpe  
Doncaster  
United Kingdom  
DN3 2DB

**Study participating centre**  
**St Martins C of E Primary School**  
Holbeck Hill  
Scarborough  
United Kingdom  
YO11 3BW

**Study participating centre**

**Hunter's Bar Junior School**

371 Sharrow Vale  
Sheffield  
United Kingdom  
S11 8ZG

**Study participating centre**

**Bishopthorpe Infants School**

Sim Balk Lane  
Bishopthorpe  
York  
United Kingdom  
YO23 2QQ

**Study participating centre**

**Southcoates Primary School**

Southcoates Lane  
Hull  
United Kingdom  
HU9 3TW

**Study participating centre**

**Braeburn Primary and Nursery Academy**

Eastfield  
Scarborough  
United Kingdom  
YO11 3LG

**Study participating centre**

**East Whitby Academy**

Stainsacre Lane  
Whitby  
United Kingdom  
YO22 4HU

**Study participating centre**

**North Cave C of E Primary School**

Station Road  
North Cave

Hull  
United Kingdom  
HU15 2LA

**Study participating centre**

**Pocklington Juniors**

65 Kirkland Street  
Pocklington  
York  
United Kingdom  
YO42 2BX

**Study participating centre**

**Beverley Minster Primary School**

St Gile's Croft  
Beverley  
United Kingdom  
HU17 8LA

**Study participating centre**

**Cawthorne Primary School**

Taylor Hill  
Cawthorne  
Barnsley  
United Kingdom  
S75 4HB

**Study participating centre**

**Queens Road Academy**

Queens Road  
Barnsley  
United Kingdom  
S71 1AR

**Study participating centre**

**Bay Primary School**

St Alan Road  
Bridlington  
United Kingdom  
YO16 7SZ



**Study participating centre**  
**Brompton Community Primary School**  
Station Road  
Brompton  
Northallerton  
United Kingdom  
DL6 2RE

**Study participating centre**  
**Market Weighton Infant School**  
Princess Road  
Market Weighton  
United Kingdom  
YO43 3EY

**Study participating centre**  
**Colburn Community Primary School**  
Colburn Lane  
Colburn  
United Kingdom  
DL9 4LS

**Study participating centre**  
**Brandesburton Primary School**  
Main Street  
Brandesburton  
East Yorkshire  
United Kingdom  
YO25 9RG

**Study participating centre**  
**Tees, Esk & Wear Valley NHS Foundation Trust**  
York  
United Kingdom  
YO30 4XT

**Study participating centre**  
**Humber Teaching NHS Foundation Trust**  
Hull

United Kingdom  
HU10 6ED

**Study participating centre**  
**Bradford District Care NHS Foundation Trust**  
Bradford  
United Kingdom  
BD18 3LD

**Study participating centre**  
**Harrogate and District NHS Foundation Trust**  
Harrogate  
United Kingdom  
HG2 7SX

**Study participating centre**  
**Sheffield Children's NHS Foundation Trust**  
Sheffield  
United Kingdom  
S10 2TH

**Study participating centre**  
**Thorpe Primary School**  
Dolphin Lane  
Thorpe  
Wakefield  
United Kingdom  
WF3 3DG

**Study participating centre**  
**Glasshoughton Infant Academy**  
Newfield Avenue  
Castleford  
United Kingdom  
WF10 4BH

**Study participating centre**  
**Shire Oak CE Primary School**  
Wood Lane

Headingley  
Leeds  
United Kingdom  
LS6 2DT

**Study participating centre**  
**St. Joseph's Catholic Primary School**  
Barleyfields Road  
Wetherby  
West Yorkshire  
United Kingdom  
LS22 6PR

**Study participating centre**  
**The John Curwen Cooperative Primary**  
Leeds Old Road  
Heckmondwike  
Kirklees  
United Kingdom  
WF16 9BB

**Study participating centre**  
**Kirk Sandall Infants and Juniors Schools**  
Queen Mary Crescent  
Kirk Sandall  
Doncaster  
United Kingdom  
DN3 1JT

**Study participating centre**  
**Newman School**  
East Bawtry Road  
Rotherham  
United Kingdom  
S60 3LX

**Study participating centre**  
**Carterknowle Junior School**  
Carterknowle Road

Sheffield  
United Kingdom  
S7 2DY

**Study participating centre**  
**Dobcroft Junior and Infant School**  
Pingle Road  
Sheffield  
United Kingdom  
S7 2LN

**Study participating centre**  
**St Marie's School a Catholic Voluntary Academy**  
Fullwood Road  
Sheffield  
United Kingdom  
S10 3DQ

**Study participating centre**  
**Hatfield Academy - Astrea Academy Trust**  
Hatfield House Lane  
Sheffield  
United Kingdom  
S5 6HY

**Study participating centre**  
**Pocklington C.E (VC) Infant School**  
Maxwell Road  
Pocklington  
York  
United Kingdom  
YO42 2HE

**Study participating centre**  
**Ralph Butterfield Primary School**  
Station Road  
Haxby  
York  
United Kingdom  
YO32 3LS

**Study participating centre**  
**Burton Green Primary School**  
Burton Green  
York  
United Kingdom  
YO30 6JE

**Study participating centre**  
**Clifton Green Primary**  
Water Lane  
York  
United Kingdom  
YO30 6JA

**Study participating centre**  
**Pickering Community Junior School**  
Middleton Road  
Pickering  
United Kingdom  
YO18 8AJ

**Study participating centre**  
**Kettlesing Ripley and Beckwithshaw Primary Schools**  
Kettlesing  
Harrogate  
United Kingdom  
HG3 2LB

**Study participating centre**  
**Kirk Fenton Parochial Primary School**  
Main Street  
Church Fenton  
Tadcaster  
United Kingdom  
LS24 9RF

**Study participating centre**  
**St Mary's Catholic Primary School**  
Knaresborough Tentergate Road

Knaresborough  
United Kingdom  
HG5 9BG

**Study participating centre**  
**Grove Road Community Primary School**  
Grove Road  
Harrogate  
United Kingdom  
HG3 3RW

**Study participating centre**  
**Burton Leonard Church of England (VC) Primary School**  
Burton Leonard  
Harrogate  
United Kingdom  
HG3 3RW

**Study participating centre**  
**Holy Trinity Junior and Infant Schools**  
Church Lane  
Ripon  
North Yorkshire  
United Kingdom  
HG4 2ES

**Study participating centre**  
**Woodlesford Primary School**  
Church Street  
Leeds  
United Kingdom  
LS26 8RD

**Study participating centre**  
**Outwood Junior Academy Brumby**  
Queensway  
Scunthorpe  
United Kingdom  
DN16 2HY

**Study participating centre**

**Woolley Wood Primary**

Chaucer Road  
Sheffield  
United Kingdom  
S5 9QN

**Study participating centre**

**Leeming RAF Community Primary School**

Gatenby  
North Allerton  
United Kingdom  
DL7 9NQ

**Study participating centre**

**St Oswald's CE Primary School**

Heslington Lane  
Fulford  
York  
United Kingdom  
YO10 4LX

**Study participating centre**

**Stamford Bridge Primary School**

5-7 Church Road  
Stamford Bridge  
United Kingdom  
YO41 1BP

**Study participating centre**

**Myrtle Park Primary School**

Ash Terrace  
Bingley  
United Kingdom  
BD16 1HB

**Study participating centre**

**Crossflatts Primary School**

Morton Lane  
Crossflatts

Bingley  
United Kingdom  
BD16 2EP

**Study participating centre**  
**St John Fisher Primary School**  
Spring Water Avenue  
Sheffield  
United Kingdom  
S12 4HJ

**Study participating centre**  
**Norton Community Primary School**  
Grove Street  
Norton-on-Derwent  
Malton  
United Kingdom  
YO17 9BG

**Study participating centre**  
**Sutton Park Primary School**  
Marsdale  
Hull  
United Kingdom  
HU7 4AH

**Study participating centre**  
**Acre Heads Primary School**  
Welbourn Walk  
Norland Avenue  
Hull  
United Kingdom  
HU4 7ST

**Study participating centre**  
**Knavesmire Primary School**  
Trafalgar St  
South Bank  
York  
United Kingdom  
YO23 1HY



**Study participating centre**  
**Thrunscoe Primary and Nursery Academy**  
Trinity Rd  
Cleethorpes  
United Kingdom  
DN35 8UL

**Study participating centre**  
**North Ridge Community**  
Tenter Balk Ln  
Adwick le Street  
Doncaster  
United Kingdom  
DN6 7EF

**Study participating centre**  
**Spring Cottage Primary School**  
Dressay Grove  
Hull  
United Kingdom  
HU8 9JH

**Study participating centre**  
**Greenfield Primary School**  
Cherry Tree St  
Hoyland  
Barnsley  
United Kingdom  
S74 9RG

**Study participating centre**  
**Bradfield Dungworth Primary School**  
Dungworth Green  
Sheffield  
United Kingdom  
S6 6HE

**Study participating centre**

**The Levett School**  
Melton Road  
Spotbrough  
United Kingdom  
DN5 7SB

**Study participating centre**  
**Penistone St Johns**  
High Street  
Penistone  
Barnsley  
United Kingdom  
S36 6FS

**Study participating centre**  
**Green Lane Primary School**  
Green Lane  
Bradford  
United Kingdom  
BD8 8HT

**Study participating centre**  
**Rowan School**  
4 Durvale Court  
Sheffield  
United Kingdom  
S17 3PT

**Study participating centre**  
**Mosborough, Halfway Infants and Juniors**  
New School Road  
Mosborough  
Sheffield  
United Kingdom  
S20 5ES

**Study participating centre**  
**Kelford School**  
Oakdale Road  
Kimberworth  
Rotherham

United Kingdom  
S61 2NU

**Study participating centre**  
**Meersbrook Bank Primary School**  
Derbyshire Lane  
Meersbrook  
Sheffield  
United Kingdom  
S8 9EH

**Study participating centre**  
**Stocksbridge Nursery Infant School**  
Pot House Lane  
Stocksbridge  
Sheffield  
United Kingdom  
S36 1EJ

**Study participating centre**  
**Alverton Community Primary School**  
Mount Road  
Northallerton  
United Kingdom  
DL6 1RB

**Study participating centre**  
**Holgate Meadows and Heritage Park**  
Norfolk Park Road  
Sheffield  
United Kingdom  
S2 2RU

## **Sponsor information**

**Organisation**  
Leeds and York Partnership NHS Foundation Trust

**ROR**

## Funder(s)

Funder type  
Government

Funder Name  
NIHR Evaluation, Trials and Studies Co-ordinating Centre (NETSCC); Grant Codes: 16/111/91

## Results and Publications

Individual participant data (IPD) sharing plan  
The datasets generated during and/or analysed during the current study will be stored in a non-publicly available repository and will be included in the subsequent results publication.

IPD sharing plan summary  
Stored in non-publicly available repository

Study outputs					
Output type	Details	Date created	Date added	Peer reviewed?	Patient-facing?
<a href="#">Results article</a>	protocol	31/08/2024	02/09/2024	Yes	No
<a href="#">Results article</a>		17/12/2024	19/12/2024	Yes	No
<a href="#">Protocol article</a>		12/06/2020	15/06/2020	Yes	No
<a href="#">Abstract results</a>	Participant information sheet		12/07/2022	No	No
<a href="#">HRA research summary</a>			20/09/2023	No	No
<a href="#">Participant information sheet</a>		11/11/2025	11/11/2025	No	Yes