

# Statins for improving organ outcome in transplantation

<b>Submission date</b> 09/07/2021	<b>Recruitment status</b> No longer recruiting	<input checked="" type="checkbox"/> Prospectively registered <input checked="" type="checkbox"/> Protocol
<b>Registration date</b> 03/08/2021	<b>Overall study status</b> Ongoing	<input type="checkbox"/> Statistical analysis plan <input type="checkbox"/> Results
<b>Last Edited</b> 11/11/2025	<b>Condition category</b> Surgery	<input type="checkbox"/> Individual participant data <input checked="" type="checkbox"/> Record updated in last year

## Plain English summary of protocol

### Background and study aims

All organs removed from donors have already suffered a degree of damage. As the brain dies (and all of these donors are brain-stem dead) chemicals are released which cause an "inflammation" of the whole body. Measurements of this "inflammation" link to how well the organs function in the recipient after transplant.

Statins are cholesterol-lowering drugs that have benefits across a range of health problems. In particular, statins damp down inflammation in the body and in individual organs. Statins protect the lungs and kidneys in a range of illnesses.

Recently, transplant doctors in Finland linked all this information in an innovative clinical study. Organ donors who were about to donate their heart were randomly allocated to receive a dose of a statin. After the transplant, the recipients who received a heart from a donor who had statins had less heart damage. The numbers were modest, and no survival advantage could be demonstrated. There was a small benefit for lung and liver recipients, but importantly there was no disadvantage in receiving any organ from a donor who had received the drug.

A significant number of hearts and other organs offered for transplant by the donor family are not used; for the heart, this figure is about 75%. The reason for being so selective is that poor function of the donor heart in the recipient is by far the most common cause of death after a transplant. Any step in the donor which might improve the transplanted heart could have a major benefit to the recipient. The same principle applies to all the other organs transplanted. The aim of this study is to investigate whether giving deceased organ donors a single dose of the drug simvastatin, a very commonly used and safe drug, is beneficial for transplant recipients.

### Who can participate?

Adult brain dead organ donors across the UK per year over 4 years

### What does the study involve?

Half the donors will receive the drug (in addition to their standard donor care), compared to the other half of donors who will receive standard care only. The drug is given through a tube running into the stomach, already present in 80% of donors, but required to be placed in the other 20%. The drug will be given as soon as the donor family have consented to both organ donation and involvement of their loved one in research.

Half of all the transplant recipients will receive an organ from a donor given the drug. The

researchers will follow the results of transplant, focussing on the heart recipients, but for all those receiving these organs, comparing what happens in those who received the drug-treated organs, and those who did not. This is done with data already collected in the national transplant database. No extra data or blood samples will be needed from recipients.

What are the possible benefits and risks of participating?

Unfortunately, there will be no benefit to the donors but there may be a benefit to the person receiving their organs if they are transplanted. People receiving an organ that has been treated with simvastatin may have better outcomes, and it is hoped that this will mean more organs can be transplanted successfully, but it is not known whether this will be the case. Simvastatin is a licensed drug and one of the most prescribed drugs in the UK. There are some risks associated with taking statins for a long time, but this will be a single dose so these risks are not considered a problem at all for this study. With any drug there is a risk of an allergic reaction. This is expected to be very rare as there has only been one case of this reported.

Where is the study run from?

NHS Blood and Transplant Clinical Trials Unit (UK)

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

October 2020 to June 2026

Who is funding the study?

National Institute of Health Research (NIHR) (UK)

Who is the main contact?

Ashley Foster, [SIGNET@nhsbt.nhs.uk](mailto:SIGNET@nhsbt.nhs.uk)

## Contact information

### Type(s)

Scientific

### Contact name

None Ashley Foster

### Contact details

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Long Road  
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[SIGNET@nhsbt.nhs.uk](mailto:SIGNET@nhsbt.nhs.uk)

## Additional identifiers

### Clinical Trials Information System (CTIS)

Nil known

### Integrated Research Application System (IRAS)

288722

ClinicalTrials.gov (NCT)

Nil known

**Protocol serial number**

CPMS 49404, IRAS 288722

## Study information

### Scientific Title

Statins in organ donor management: an evaluation of the benefits of a single dose of simvastatin given to potential organ donors declared dead by neurological criteria on outcomes in organ recipients

### Acronym

SIGNET

### Study objectives

Does treatment of potential organ donors with simvastatin during protocolised care after diagnosis of death using neurological criteria improve outcomes in patients undergoing transplantation?

### Ethics approval required

Old ethics approval format

### Ethics approval(s)

Approved 28/06/2021, London - Queen Square Research Ethics Committee (HRA NRES Centre Bristol, 3rd Floor, Block B, Whitefriars, Lewins Mead, Bristol, BS1 2NT, UK; +44 (0)207 104 8061; queensquare.rec@hra.nhs.uk), REC ref: 21/LO/0412

### Study design

Randomized; Interventional; Design type: Process of Care, Drug, Other

### Primary study design

Interventional

### Study type(s)

Treatment

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

Organ transplantation

### Interventions

This is a multi-centre, single-blind prospective, group sequential, randomised controlled trial. Randomisation will be in a 1:1 ratio and will be stratified according to whether the donor was receiving statin therapy at ICU admission.

## Setting

ICUs within Level 1 or 2 donating hospitals: defined as a mean number of donors per year > 6 by NHS Blood and Transplant.

## Screening

Adult organ donors will be identified by the Specialist Nurses in Organ Donation (SNODs). After they have been through the organ donation consent process with the donor family, they will go through the study-specific consent. The SNODs will complete an eligibility checklist which will be countersigned by the prescribing ICU doctor if the patient is randomised to receive the intervention. No screening logs will be completed.

## Randomisation

Following study-specific consent, participants will be randomised using an online randomisation service, called SealedEnvelope, and given a unique Randomisation Number. The treatment allocation will also be provided.

## Treatment

The study treatment is 80 mg simvastatin in addition to protocolised standard care. This will be compared to protocolised standard care alone. If randomised to receive the intervention, this will be prescribed by an ICU doctor and issued from hospital stock. The tablet will be crushed, mixed with 20 ml sterile water (hospital stock) and administered via nasogastric tube. Nasogastric tubes are already in place for 80% of organ donors but if this is not already in place, this will be required.

## Follow up

Although there will be some intervention and donor data collected by the research team onto an eCRF, most of the data from the donors, and all recipient data, is already collected as part of standard care on the UK Transplant Registry. No additional information or samples will be needed from recipients.

## Safety reporting

Serious adverse events will be reported to the REC within 15 days of the clinical team becoming aware. Due to the low-risk intervention and complex patient population, serious adverse events that need reporting will be those assessed by the PI as being related to the study and unexpected. The researchers will also record events that progress to the loss of capacity to donate as a result of the study procedure.

## Intervention Type

Drug

## Phase

Not Applicable

## Drug/device/biological/vaccine name(s)

Simvastatin

## Primary outcome(s)

Updated primary outcome measure as of 01/05/2024:

The primary outcome measure is a composite outcome of death, cardiac mechanical circulatory support or renal replacement therapy within the first 30 days post heart transplant

Previous primary outcome measure:

Composite of death, cardiac mechanical circulatory support or renal replacement therapy, determined by the recipient status on the UK Transplant Registry (UKTR) at 30 days

**Key secondary outcome(s)**

1. Organ utilisation rate, measured by the proportion of organs offered that were transplanted for each organ separately and based on the records held by the UK Transplant Registry (UKTR) during the 60-month trial duration, records completed at 30-days or at initial discharge post-transplant whichever is sooner
2. Graft survival for all transplanted organs, based on the records held by the UKTR, at 30 days, 3 months and 12 months
3. Patient survival, determined by status on the UKTR, at 30 days, 3 months and 12 months
4. Length of ITU stay, measured by the number of days the patient was on ITU, based on the records held by the UKTR from the point of transplant to discharge from ITU at discharge from transplant admission
5. Length of hospital stay, measured by the number of days the patient was in hospital, based on the records held by the UKTR excluding kidney recipients at from the point of transplant to discharge from hospital at discharge from transplant admission
6. Proportion of heart recipients requiring mechanical circulatory support up to 30 days, based on the records held by the UKTR
7. Proportion of cardiac recipients requiring renal replacement therapy up to 30 days, based on the records held by the UKTR
8. Patient survival for heart recipients, measured by their status on the UKTR, at 30 days
9. Number of treated rejection episodes for each organ, based on records held by the UKTR, at 3 and 12 months
10. Estimated glomerular filtration rate for kidney recipients, calculated using the Chronic Kidney Disease Epidemiology Collaboration (CKD-EPI) equation (2009) from data held by the UKTR at 12 months
11. Proportion of kidney recipients with delayed graft function, defined as the need for dialysis in the first 7 days, based on records held by the UKTR
12. Number of days liver recipients spent ventilated, based on records held by the UKTR at 30 days or at initial discharge post-transplant whichever is sooner
13. Proportion of liver recipients with individual post-operative complications, measured by indicators recording the presence or absence of hepatic artery thrombosis, portal vein thrombosis, inferior vena cava (IVC)/hepatic vein occlusion, haemorrhage requiring reoperation, biliary tract leaks, biliary tract stricture requiring intervention as recorded by the UKTR at 30-days or at initial discharge post-transplant whichever is sooner
14. For liver recipients, the levels of serum creatinine ( $\mu\text{mol/L}$ ), bilirubin ( $\mu\text{mol/L}$ ) and alkaline phosphatase (IU/L) at 12 months, based on the UKTR records
15. FEV1 in lung recipients based on records held in the UKTR and measured in both absolute terms in litres, from the two best recent measurements as well as % predicted<sup>1</sup> as measured at 12 months
16. Proportion of pancreas recipients (including simultaneous pancreas-kidney recipients) with initial pancreas graft function, based on records held on the UKTR at 30-days or at initial discharge post-transplant whichever is sooner
17. Number of treated pancreas rejection episodes in pancreas and simultaneous pancreas-kidney recipients at 3 and 12 months based on the UKTR
18. Categorised causes of graft loss in pancreas and simultaneous pancreas-kidney recipients as recorded on the UKTR at 12 months (causes recorded for pancreas graft failure include: vascular thrombosis, infection, bleeding, anastomotic leak, pancreatitis, primary non-function, hyperacute, acute and chronic rejection, preservation/procurement problem, death with

functioning graft, patient declined medication)

19. Proportion of pancreas and simultaneous pancreas-kidney recipients with pancreatitis as recorded in the UKTR up to 3 months

20. C-peptide in pancreas islet recipients, measured by meal tolerance test in units of pmol/l, at 3-month follow-up in the UKTR

**Completion date**

30/06/2026

## **Eligibility**

**Key inclusion criteria**

1. Within a recruiting Intensive Care Unit
2. Patients diagnosed dead using neurological criteria
3. Consent for organ donation in place, as defined by the Human Tissue Act and accompanying legislation and Codes of Practice
4. Study-specific consent from the donor family

**Participant type(s)**

Patient

**Healthy volunteers allowed**

No

**Age group**

Mixed

**Lower age limit**

18 years

**Upper age limit**

100 years

**Sex**

All

**Total final enrolment**

1694

**Key exclusion criteria**

1. Aged <18 years
2. Planned donation after cessation of circulation (DCD)
3. Known donor allergic hypersensitivity to simvastatin

**Date of first enrolment**

14/09/2021

**Date of final enrolment**

13/09/2025

# Locations

## **Countries of recruitment**

United Kingdom

England

Northern Ireland

Scotland

Wales

## **Study participating centre**

**Aberdeen Royal Infirmary**  
Foresterhill Health Campus  
Foresterhill Rd  
Aberdeen  
Scotland  
AB25 2ZN

## **Study participating centre**

**Royal Gwent Hospital**  
Cardiff Rd  
Newport  
Wales  
NP20 2UB

## **Study participating centre**

**Monklands District General Hospital**  
Monkscourt Ave  
Airdrie  
Scotland  
ML6 0JS

## **Study participating centre**

**Hairmyres Hospital**  
218 Eaglesham Rd  
East Kilbride  
Glasgow  
Scotland  
G75 8RG

**Study participating centre**  
**Wishaw General Hospital**  
50 Netherton St  
Wishaw  
Scotland  
ML2 0DP

**Study participating centre**  
**William Harvey Hospital**  
Kennington Rd  
Willesborough  
Ashford  
England  
TN24 0LZ

**Study participating centre**  
**Kent and Canterbury Hospital**  
Ethelbert Rd  
Canterbury  
England  
CT1 3NG

**Study participating centre**  
**Queen Elizabeth the Queen Mother Hospital**  
Ramsgate Rd  
Margate  
England  
CT9 4AN

**Study participating centre**  
**University Hospital Ayr**  
Dalmellington Rd  
Ayr  
Scotland  
KA6 6DX

**Study participating centre**  
**University Hospital Crosshouse**  
Kilmarnock Rd



Crosshouse  
Kilmarnock  
Scotland  
KA2 0BE

**Study participating centre**

**John Radcliffe Hospital**

Headley Way  
Headington  
Oxford  
England  
OX3 9DU

**Study participating centre**

**Ysbyty Gwynedd**

Penrhosgarnedd  
Bangor  
Wales  
LL57 2PW

**Study participating centre**

**Glan Clwyd Hospital**

Rhuddlan Rd  
Bodelwyddan  
Rhyl  
Wales  
LL18 5UJ

**Study participating centre**

**Wrexham Maelor Hospital**

Croesnewydd Rd  
Wrexham  
Wales  
LL13 7TD

**Study participating centre**

**Barnet Hospital**

Wellhouse Ln  
Barnet  
England  
EN5 3DJ

**Study participating centre**  
**Royal Free Hospital**  
Pond St  
London  
England  
NW3 2QG

**Study participating centre**  
**Royal United Hospital**  
Combe Park  
Bath  
England  
BA1 3NG

**Study participating centre**  
**Belfast City Hospital**  
Lisburn Rd  
Belfast  
Northern Ireland  
BT9 7AB

**Study participating centre**  
**Mater Infirmorum Hospital**  
45-51 Crumlin Rd  
Belfast  
Northern Ireland  
BT14 6AB

**Study participating centre**  
**Royal Victoria Hospital**  
274 Grosvenor Rd  
Belfast  
Northern Ireland  
BT12 6BA

**Study participating centre**  
**Queen Elizabeth Hospital Birmingham**  
Mindelsohn Way

Birmingham  
England  
B15 2TH

**Study participating centre**  
**Birmingham City Hospital**  
Dudley Rd  
Birmingham  
England  
B18 7QH

**Study participating centre**  
**Sandwell District General Hospital**  
Lyndon  
West Bromwich  
England  
B71 4HJ

**Study participating centre**  
**Royal Blackburn Hospital**  
Haslingden Rd  
Blackburn  
England  
BB2 3HH

**Study participating centre**  
**Blackpool Victoria Hospital**  
Whinney Heys Rd  
Blackpool  
England  
FY3 8NR

**Study participating centre**  
**Royal Bolton Hospital**  
Minerva Rd  
Farnworth  
Bolton  
England  
BL4 0JR

**Study participating centre**  
**Pilgrim Hospital**  
Sibsey Rd  
Boston  
England  
PE21 9QS

**Study participating centre**  
**Lincoln County Hospital**  
Greetwell Rd  
Lincoln  
England  
LN2 5QY

**Study participating centre**  
**Royal Bournemouth Hospital**  
Castle Ln E  
Bournemouth  
England  
BH7 7DW

**Study participating centre**  
**Princess of Wales Hospital**  
Coity Rd  
Bridgend  
Wales  
CF31 1RQ

**Study participating centre**  
**Prince Charles Hospital**  
Gurnos Rd  
Merthyr Tydfil  
Wales  
CF47 9DT

**Study participating centre**  
**Royal Glamorgan Hospital**  
Ynysmaerdy

Pontyclun  
Wales  
CF72 8XR

**Study participating centre**  
**Royal Sussex County Hospital**  
Barry Building  
Eastern Rd  
Brighton  
England  
BN2 5BE

**Study participating centre**  
**Princess Royal Hospital**  
Lewes Rd  
Haywards Heath  
England  
RH16 4EX

**Study participating centre**  
**Bristol Royal Infirmary**  
Upper Maudlin St  
Bristol  
England  
BS2 8HW

**Study participating centre**  
**Southmead Hospital**  
Southmead Rd  
Bristol  
England  
BS10 5NB

**Study participating centre**  
**Royal Derby Hospital**  
Uttoxeter Rd  
Derby  
England  
DE22 3NE

**Study participating centre**  
**Fairfield General Hospital**  
Rochdale Old Rd  
Bury  
England  
BL9 7TD

**Study participating centre**  
**Royal Oldham Hospital**  
Rochdale Rd  
Oldham  
England  
OL1 2JH

**Study participating centre**  
**Frimley Park Hospital**  
Portsmouth Rd  
Frimley  
Camberley  
England  
GU16 7UJ

**Study participating centre**  
**Wexham Park Hospital**  
Wexham St  
Slough  
England  
SL2 4HL

**Study participating centre**  
**Addenbrooke's Hospital**  
Hills Rd  
Cambridge  
England  
CB2 0QQ

**Study participating centre**  
**University Hospital of Wales,**  
Heath Park Way  
Cardiff

Wales  
CF14 4XW

**Study participating centre**  
**St Peter's Hospital**  
Guildford St  
Lyne  
Chertsey  
England  
KT16 0PZ

**Study participating centre**  
**Countess of Chester Hospital**  
Liverpool Rd  
Chester  
England  
CH2 1UL

**Study participating centre**  
**St Richard's Hospital**  
Spitalfield Ln  
Chichester  
England  
PO19 6SE

**Study participating centre**  
**Worthing Hospital**  
Lyndhurst Rd  
Worthing  
England  
BN11 2DH

**Study participating centre**  
**Royal Preston Hospital**  
Sharoe Green Ln  
Fulwood  
Preston  
England  
PR2 9HT

**Study participating centre**  
**Colchester Hospital**  
Turner Rd  
Colchester  
England  
CO4 5JL

**Study participating centre**  
**Ipswich Hospital**  
Heath Rd  
Ipswich  
England  
IP4 5PD

**Study participating centre**  
**Hull Royal Infirmary**  
Anlaby Rd  
Hull  
England  
HU3 2JZ

**Study participating centre**  
**University Hospital Coventry & Warwickshire**  
Clifford Bridge Rd  
Coventry  
England  
CV2 2DX

**Study participating centre**  
**Darlington Memorial Hospital**  
Hollyhurst Rd  
Darlington  
England  
DL3 6HX

**Study participating centre**  
**University Hospital of North Durham**  
North Rd



Durham  
England  
DH1 5TW

**Study participating centre**

**Ninewells Hospital**

James Arrott Dr  
Dundee  
Scotland  
DD2 1SG

**Study participating centre**

**Eastbourne District General Hospital**

Kings Dr  
Eastbourne  
England  
BN21 2UD

**Study participating centre**

**Conquest Hospital**

The Ridge  
Saint Leonards-on-Sea  
England  
TN37 7RD

**Study participating centre**

**Royal Infirmary of Edinburgh**

51 Little France Cres  
Old Dalkeith Rd  
Edinburgh  
Scotland  
EH16 4SA

**Study participating centre**

**Western General Hospital**

Crewe Rd S  
Edinburgh  
Scotland  
EH4 2XU

**Study participating centre**

**St John's Hospital**

Livingston  
Howden W Rd  
Howden  
Livingston  
Scotland  
EH54 6PP

**Study participating centre**

**South West Acute Hospital**

124 Irvinestown Rd  
Enniskillen  
Northern Ireland  
BT74 6DN

**Study participating centre**

**Altnagelvin Area Hospital**

Glenshane Rd  
Londonderry  
Northern Ireland  
BT47 6SB

**Study participating centre**

**Medway Maritime Hospital**

Windmill Road  
Gillingham  
England  
ME7 5NY

**Study participating centre**

**Glasgow Royal Infirmary**

84 Castle St  
Glasgow  
Scotland  
G4 0SF

**Study participating centre**

**Queen Elizabeth University Hospital**

1345 Govan Rd

Glasgow  
Scotland  
G51 4TF

**Study participating centre**  
**Royal Alexandra Hospital**  
Castlehead  
Paisley  
Scotland  
PA2 9PJ

**Study participating centre**  
**Diana Princess of Wales Hospital**  
Scarcho Rd  
Grimsby  
England  
DN33 2BA

**Study participating centre**  
**Scunthorpe General Hospital**  
Cliff Gardens  
Scunthorpe  
England  
DN15 7BH

**Study participating centre**  
**Calderdale Royal Hospital**  
-  
Halifax  
England  
HX3 0PW

**Study participating centre**  
**Huddersfield Royal Infirmary**  
Acre St  
Lindley  
Huddersfield  
England  
HD3 3EA

**Study participating centre**  
**Harefield Hospital**  
Hill End Rd  
Harefield  
Uxbridge  
England  
UB9 6JH

**Study participating centre**  
**Royal Brompton Hospital,**  
Sydney St  
London  
England  
SW3 6NP

**Study participating centre**  
**Northwick Park Hospital**  
Watford Rd  
Harrow  
England  
HA1 3UJ

**Study participating centre**  
**Ealing Hospital**  
601 Uxbridge Rd  
Southall  
England  
UB1 3HW

**Study participating centre**  
**King George Hospital**  
Barley Ln  
Ilford  
England  
IG3 8YB

**Study participating centre**  
**Queen's Hospital**  
Rom Valley Way  
Romford

England  
RM7 0AG

**Study participating centre**  
**Ipswich Hospital**  
Heath Rd  
Ipswich  
England  
IP4 5PD

**Study participating centre**  
**Leeds General Infirmary**  
Great George St  
Leeds  
England  
LS1 3EX

**Study participating centre**  
**St James's University Hospital**  
Beckett St  
Harehills  
Leeds  
England  
LS9 7TF

**Study participating centre**  
**Glenfield Hospital**  
Groby Rd  
Leicester  
England  
LE3 9QP

**Study participating centre**  
**Leicester Royal Infirmary**  
Infirmary Square  
Leicester  
England  
LE1 5WW

**Study participating centre**  
**Royal Liverpool University Hospital**  
Prescot St  
Liverpool  
England  
L7 8XP

**Study participating centre**  
**Aintree University Hospital**  
Lower Ln  
Liverpool  
England  
L9 7AL

**Study participating centre**  
**The Walton Centre**  
Lower Ln  
Liverpool  
England  
L9 7LJ

**Study participating centre**  
**Charing Cross Hospital**  
Fulham Palace Rd  
London  
England  
W6 8RF

**Study participating centre**  
**Hammersmith Hospital**  
72 Du Cane Rd  
London  
England  
W12 0HS

**Study participating centre**  
**St Mary's Hospital**  
Praed St  
London  
England  
W2 1NY

**Study participating centre**

**King's College Hospital**

Denmark Hill

London

England

SE5 9RS

**Study participating centre**

**Princess Royal University Hospital**

Farnborough Common

Orpington

England

BR6 8ND

**Study participating centre**

**National Hospital for Neurology and Neurosurgery**

Queen Square

London

England

WC1N 3BG

**Study participating centre**

**University College Hospital**

235 Euston Rd

London

England

NW1 2BU

**Study participating centre**

**Newham University Hospital**

Glen Rd

London

England

E13 8SL

**Study participating centre**

**St Bartholomew's Hospital**

W Smithfield

London  
England  
EC1A 7BE

**Study participating centre**  
**The Royal London Hospital**  
Whitechapel Rd  
London  
England  
E1 1FR

**Study participating centre**  
**Whipps Cross Hospital**  
Whipps Cross Road  
London  
England  
E11 1NR

**Study participating centre**  
**St George's Hospital**  
Blackshaw Rd  
London  
England  
SW17 0QT

**Study participating centre**  
**St Thomas' Hospital**  
Westminster Bridge Rd  
London  
England  
SE1 7EH

**Study participating centre**  
**Queen Elizabeth Hospital**  
Stadium Rd  
London  
England  
SE18 4QH



**Study participating centre**  
**University Hospital Lewisham**  
Lewisham High St  
London  
England  
SE13 6LH

**Study participating centre**  
**Luton & Dunstable University Hospital**  
Lewsey Rd  
Luton  
England  
LU4 0DZ

**Study participating centre**  
**Manchester Royal Infirmary**  
Oxford Rd  
Manchester  
England  
M13 9WL

**Study participating centre**  
**Wythenshawe Hospital**  
Southmoor Rd  
Wythenshawe  
Manchester  
England  
M23 9LT

**Study participating centre**  
**The James Cook University Hospital**  
Marton Rd  
Middlesbrough  
England  
TS4 3BW

**Study participating centre**  
**Newcastle Freeman Hospital,**  
Freeman Rd  
High Heaton  
Newcastle upon Tyne

England  
NE7 7DN

**Study participating centre**

**Royal Victoria Infirmary**

Queen Victoria Rd  
Newcastle upon Tyne  
England  
NE1 4LP

**Study participating centre**

**Northumbria Specialist Emergency Care Hospital**

Northumbria Way  
Cramlington  
England  
NE23 6NZ

**Study participating centre**

**Norfolk & Norwich University Hospital**

Colney Ln  
Colney  
Norwich  
England  
NR4 7UY

**Study participating centre**

**Nottingham City Hospital**

Hucknall Rd  
Nottingham  
England  
NG5 1PB

**Study participating centre**

**Queen's Medical Centre**

Derby Rd  
Lenton  
Nottingham  
England  
NG7 2UH

**Study participating centre**  
**Derriford Hospital**  
Derriford Rd  
Plymouth  
England  
PL6 8DH

**Study participating centre**  
**Queen Alexandra Hospital**  
Cosham  
Portsmouth  
England  
PO6 3LY

**Study participating centre**  
**Whiston Hospital,**  
Warrington Rd  
Rainhill  
Prescot  
England  
L35 5DR

**Study participating centre**  
**Alexandra Hospital**  
Woodrow Dr  
Redditch  
England  
B98 7UB

**Study participating centre**  
**Worcestershire Royal Hospital**  
Charles Hastings Way  
Worcester  
England  
WR5 1DD

**Study participating centre**  
**Salford Royal Hospital**  
Stott Ln  
Salford

England  
M6 8HD

**Study participating centre**  
**Scarborough General Hospital,**  
Woodlands Dr  
Scarborough  
England  
YO12 6QL

**Study participating centre**  
**York District Hospital,**  
Clifton  
York  
England  
YO31 8HE

**Study participating centre**  
**Northern General Hospital**  
Herries Rd  
Sheffield  
England  
S5 7AU

**Study participating centre**  
**Royal Hallamshire Hospital**  
Glossop Rd  
Broomhall  
Sheffield  
England  
S10 2JF

**Study participating centre**  
**Southampton General Hospital**  
Tremona Rd  
Southampton  
England  
SO16 6YD

**Study participating centre**

**Lister Hospital**

Coreys Mill Ln  
Stevenage  
England  
SG1 4AB

**Study participating centre**

**Royal Stoke University Hospital**

Newcastle Rd  
Stoke-on-Trent  
England  
ST4 6QG

**Study participating centre**

**Great Western Hospital**

Marlborough Rd  
Swindon  
England  
SN3 6BB

**Study participating centre**

**Watford General Hospital**

Vicarage Rd  
Watford  
England  
WD18 0HB

**Study participating centre**

**New Cross Hospital**

Wolverhampton Rd  
Heath Town  
Wolverhampton  
England  
WV10 0QP

**Study participating centre**

**Morrison Hospital**

Heol Maes Eglwys  
Cwmrhydyceirw  
Swansea

Wales  
SA6 6NL

**Study participating centre**  
**South Tyneside NHS Foundation Trust**  
South Tyneside District Hospital  
Harton Lane  
South Shields  
England  
NE34 0PL

**Study participating centre**  
**Sunderland Royal Hospital**  
Kayll Road  
Sunderland  
England  
SR4 7TP

**Study participating centre**  
**Basildon**  
Basildon Hospital  
Nethermayne  
Basildon  
England  
SS16 5NL

**Study participating centre**  
**Gloucestershire Royal Hospital**  
Great Western Road  
Gloucester  
England  
GL1 3NN

**Study participating centre**  
**Cheltenham General Hospital**  
Sandford Road  
Cheltenham  
England  
GL53 7AN

**Study participating centre**  
**Craigavon Area Hospital**  
Lurgan Rd  
Craigavon  
Northern Ireland  
BT63 5QQ

**Study participating centre**  
**Stoke Mandeville Hospital**  
Mandeville Road  
Aylesbury  
England  
HP21 8AL

**Study participating centre**  
**Wycombe General Hospital**  
Queen Alexandra Road  
High Wycombe  
England  
HP11 2TT

**Study participating centre**  
**Royal Cornwall Hospitals NHS Trust**  
Royal Cornwall Hospital  
Treliske  
Truro  
England  
TR1 3LJ

**Study participating centre**  
**Pinderfields and Pontefract Hospitals NHS Trust**  
Rowan House  
Pinderfields General Hospital  
Aberford Road  
Wakefield  
England  
WF1 4EE

**Study participating centre**

**North Tees and Hartlepool NHS Foundation Trust**  
University Hospital of Hartlepool  
Holdforth Road  
Hartlepool  
England  
TS24 9AH

**Study participating centre**  
**Royal Berkshire Hospital**  
Royal Berkshire Hospital  
London Road  
Reading  
England  
RG1 5AN

**Study participating centre**  
**Chesterfield Royal Hospital NHS Foundation Trust**  
Chesterfield Road  
Calow  
Chesterfield  
England  
S44 5BL

**Study participating centre**  
**Doncaster & Bassetlaw Hospitals**  
Doncaster Royal Infirmary  
Thorne Road  
Doncaster  
England  
DN2 5LT

**Study participating centre**  
**Doncaster & Bassetlaw Hospitals**  
Doncaster Royal Infirmary  
Thorne Road  
Doncaster  
England  
DN2 5LT

**Study participating centre**



**Withybush General Hospital**  
Fishguard Road  
Haverfordwest  
Wales  
SA61 2PZ

**Study participating centre**  
**West Wales General Hospital**  
Dolgwili Road  
Carmarthen  
Wales  
SA31 2AF

**Study participating centre**  
**Bronglais General Hospital**  
Bronglais Hospital  
Caradoc Road  
Aberystwyth  
Wales  
SY23 1ER

**Study participating centre**  
**Cumberland Infirmary**  
Newtown Road  
Carlisle  
England  
CA2 7HY

**Study participating centre**  
**West Cumberland Hospital**  
Homewood  
Hensingham  
Whitehaven  
England  
CA28 8JG

**Study participating centre**  
**Taunton**  
Musgrove Park Hospital

Taunton  
England  
TA1 5DA

**Study participating centre**  
**Forth Valley Royal Hospital**  
Stirling Road  
Larbert  
Scotland  
FK5 4WR

**Study participating centre**  
**Maidstone**  
Maidstone Hospital  
Hermitage Lane  
Maidstone  
England  
ME16 9QQ

**Study participating centre**  
**Tunbridge Wells Hospital**  
The Tunbridge Wells Hospital  
Tonbridge Road  
Pembury  
Tunbridge Wells  
England  
TN2 4QJ

**Study participating centre**  
**Raigmore Hospital**  
Old Perth Rd  
Inverness  
Scotland  
IV2 3UJ

**Study participating centre**  
**Royal Shrewsbury Hospital**  
Mytton Oak Road  
Shrewsbury  
England  
SY3 8XQ

# Sponsor information

## Organisation

Newcastle upon Tyne Hospitals NHS Foundation Trust

## ROR

<https://ror.org/05p40t847>

# Funder(s)

## Funder type

Government

## Funder Name

NIHR Evaluation, Trials and Studies Co-ordinating Centre (NETSCC); Grant Codes: NIHR131124

# Results and Publications

## Individual participant data (IPD) sharing plan

Access to the final dataset for additional analyses will be permitted with the agreement of the Trial Steering Committee. Participant-level data will be held by NHS Blood and Transplant.

## IPD sharing plan summary

Available on request

## Study outputs

Output type	Details	Date created	Date added	Peer reviewed?	Patient-facing?
<a href="#">Protocol article</a>		18/09/2024	20/09/2024	Yes	No
<a href="#">HRA research summary</a>			28/06/2023	No	No
<a href="#">Participant information sheet</a>	For organ donor's relative version 11	11/06/2021	04/05/2023	No	Yes
<a href="#">Participant information sheet</a>	For organ recipient version 10	12/04/2021	04/05/2023	No	Yes
<a href="#">Participant information sheet</a>	Participant information sheet	11/11/2025	11/11/2025	No	Yes
<a href="#">Protocol (other)</a>	v20	07/12/2022	04/05/2023	No	No
<a href="#">Protocol file</a>	version 20	07/12/2022	04/05/2023	No	No
<a href="#">Study website</a>	Study website	11/11/2025	11/11/2025	No	Yes

