

# Red cell transfusion and QoL in myelodysplastic syndromes

<b>Submission date</b>	<b>Recruitment status</b>	<input checked="" type="checkbox"/> Prospectively registered
13/11/2014	No longer recruiting	<input type="checkbox"/> Protocol
<b>Registration date</b>	<b>Overall study status</b>	<input type="checkbox"/> Statistical analysis plan
13/11/2014	Completed	<input checked="" type="checkbox"/> Results
<b>Last Edited</b>	<b>Condition category</b>	<input type="checkbox"/> Individual participant data
26/01/2021	Cancer	

## Plain English summary of protocol

<http://www.cancerresearchuk.org/about-cancer/find-a-clinical-trial/a-trial-looking-at-blood-transfusions-and-quality-of-life-in-people-with-myelodysplastic-syndrome>

## Contact information

### Type(s)

Scientific

### Contact name

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### Contact details

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## Additional identifiers

### Protocol serial number

17595

## Study information

### Scientific Title

Red blood cell transfusion thresholds and Quality of Life in myelodysplastic syndromes: a pilot, feasibility study

**Acronym**

REDDS

**Study objectives**

This pilot trial aims to find out if giving red blood cell transfusions to reach a higher haemoglobin concentration is possible, safe and would improve quality of life in patients with myelodysplastic syndromes (MDS). The results may help design a large multi-centre randomised, controlled trial to be conducted in the future, or may show that it is not possible to carry out such a trial.

**Ethics approval required**

Old ethics approval format

**Ethics approval(s)**

NRES Committee South Central - Oxford A, 11/09/2014, ref. 14/SC/1150

**Study design**

Randomised; Interventional; Design type: Not specified, Treatment

**Primary study design**

Interventional

**Study type(s)**

Treatment

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

Topic: Cancer; Subtopic: Haematological Oncology; Disease: Myelodysplastic syndromes

**Interventions**

Transfusion Strategy, Eligible, informed and consented patients will be randomised to one of two red cell transfusion strategies:

1. Restrictive transfusion strategy to maintain haemoglobin concentration level between 85 and 100g/L; where 2 units of packed red cell unit transfusions are transfused when the haemoglobin concentration level is < 80g/L and 1 unit of packed red cell unit transfusions when haemoglobin concentration level is 80-85g/L.

2. Liberal transfusion strategy to maintain haemoglobin concentration; Study Entry : Single Randomisation only

**Intervention Type**

Biological/Vaccine

**Primary outcome(s)**

The primary outcomes of this feasibility study, from day 0 to day 84, will be:

1. The percentage compliance of pre-transfusion haemoglobin concentrations being within or above the target range of the red cell transfusion threshold assigned
2. Achievement of at least a 20 g/L difference between the mean pre-transfusion haemoglobins in the liberal and restrictive strategy groups

**Key secondary outcome(s))**

1. Number of patients ineligible due to screening failure or workload of department
2. Enrolment rates defined as number of patients enrolled per month, number of replaced patients and patient tolerability of study schedule
3. Percentage compliance with completing the QoL questionnaires at scheduled study visits
4. Ability of patients to remain blinded to the treatment arm
5. Proportion of transfusions and proportion of patients with all transfusions given correctly, according to the algorithm
6. Percentage of pre-transfusion haemoglobin concentrations falling below, within and above the target range of the red cell transfusion threshold assigned
7. The magnitude of change in physical functioning, fatigue, dyspnoea and global health scores on the EORTC QLQ-C30 and calculated health utility on the EQ-5D comparing the two RBC transfusion thresholds, with clinically significant differences of 10 points for the QLQ-C30 and 0.08 points for the EQ-5D
8. Numbers of adverse events such as cardiac events and thromboembolic events, and transfusion reactions (as defined and adapted from SHOT definitions and as applied in other NHSBT CTU trials), per arm
9. The overall utilisation of blood during study period per group, to evaluate the amount of extra red cell units transfused/week/patient associated with the liberal strategy

**Completion date**

30/10/2018

## Eligibility

**Key inclusion criteria**

1. All patients with MDS =18 years of age and with < 20% blasts on bone marrow aspirate (WHO classification), including non-proliferative CMML and other MDS/MPN overlap diseases. These patients will include both those recently diagnosed and with an established diagnosis
2. Transfusion dependent: at least 1 red cell transfusion episode per month in the last 8 weeks
3. Life expectancy >6 months

**Participant type(s)**

Patient

**Healthy volunteers allowed**

No

**Age group**

Adult

**Lower age limit**

18 years

**Sex**

All

**Total final enrolment**

38

## **Key exclusion criteria**

1. Unable, in the opinion of the attending clinician, to tolerate restrictive or liberal red cell transfusion thresholds (e.g. clinically significant cardio-respiratory compromise)
2. Poor performance/functional status (Eastern Cooperative Oncology Group system ECOG =3)
3. Patients being actively treated with erythropoiesis stimulating agents (ESAs) or disease modifying agents for their MDS (such as lenalidomide, azacitidine, hydroxycarbamide, experimental agents), as these may exert their own effects on the patients' quality of life and may render patients transfusion independent
4. Patients with myelofibrosis
5. Patients in whom the attending clinician considers that active bleeding or ongoing haemolysis contribute significantly to the cause of anaemia
6. Patients presenting with splenomegaly >5cm below the costal margin

## **Date of first enrolment**

19/02/2015

## **Date of final enrolment**

31/03/2017

## **Locations**

### **Countries of recruitment**

United Kingdom

England

### **Study participating centre**

National Blood Service Oxford Centre

Oxford

United Kingdom

OX3 9DU

## **Sponsor information**

### **Organisation**

NHS Blood and Transplant (NHSBT)

### **ROR**

<https://ror.org/0227qpa16>

## **Funder(s)**

### **Funder type**

**Funder Name**

NHS Blood and Transplant (NHSBT) (UK)

## Results and Publications

### Individual participant data (IPD) sharing plan

#### IPD sharing plan summary

Not provided at time of registration

#### Study outputs

Output type	Details	Date created	Date added	Peer reviewed?	Patient-facing?
<a href="#">Results article</a>	results	01/04/2020	26/01/2021	Yes	No
<a href="#">HRA research summary</a>			28/06/2023	No	No
<a href="#">Participant information sheet</a>	Participant information sheet	11/11/2025	11/11/2025	No	Yes