

Transfusion in Gastrointestinal Bleeding (TRIGGER)

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| Submission date 25/07/2012 | Recruitment status No longer recruiting | <input checked="" type="checkbox"/> Prospectively registered <input checked="" type="checkbox"/> Protocol |
| Registration date 26/07/2012 | Overall study status Completed | <input checked="" type="checkbox"/> Statistical analysis plan <input checked="" type="checkbox"/> Results |
| Last Edited 29/08/2019 | Condition category Surgery | <input type="checkbox"/> Individual participant data |

Plain English summary of protocol
Not provided at time of registration

Contact information

Type(s)
Scientific

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Additional identifiers

ClinicalTrials.gov (NCT)
NCT02105532

Protocol serial number
12078

Study information

Scientific Title

A multi-centre, feasibility, cluster randomised controlled trial comparing restrictive versus liberal blood transfusion strategies in adult patients admitted with acute upper gastrointestinal bleeding.

Acronym

TRIGGER

Study objectives

Acute upper gastrointestinal bleeding (AUGIB) accounts for 14% of all red blood cell (RBC) transfusions in England. In 2007, a large UK national audit of AUGIB highlighted areas of variation and uncertainty in RBC transfusion practice together with signals of harm associated with more liberal use of RBCs, justifying the need for a randomised controlled trial (RCT) to answer a key area of clinical uncertainty.

TRIGGER is a pragmatic cluster randomised feasibility trial aiming to recruit adult patients admitted to hospital with all cause AUGIB. The study will take place in six UK hospitals and each hospital will be randomised to a transfusion policy; three sites will be randomised to a restrictive transfusion policy and three to a liberal transfusion policy. Both transfusion policies are used by doctors and hospitals in the UK already as part of routine care in the management of AUGIB and are within the limits of local hospital, national and international guidelines. Each cluster will agree to follow the transfusion policy for all eligible patients admitted with AUGIB for a total of 6 months at each site. Consent will be sought from an appropriate "guardian" of the cluster and individual participants for use of data collection and Day 28 telephone follow up. Given the challenges involved in early recruitment and cross-specialty care of patients, a feasibility study is essential to both justify and inform the design of a phase III trial.

Ethics approval required

Old ethics approval format

Ethics approval(s)

First MREC 20/04/2012, ref: 12/SC/0062

Study design

Randomised interventional pilot study

Primary study design

Interventional

Study type(s)

Treatment

Health condition(s) or problem(s) studied

Non-malignant haematology

Interventions

Transfusion Policies:

The trial will compare two different policies for RBC transfusion, 'restrictive' and 'liberal'.

Restrictive transfusion policy: Patients in hospitals allocated to this group will receive a transfusion if their Hb level is ≤ 8 g/dL. The objective for the attending clinician is then to maintain the Hb level between 8.1-10 g/dL

Liberal transfusion policy: Patients in hospitals allocated to this group will receive a transfusion

if their Hb level is ≤ 10 g/dL.

The objective for the attending ct; Follow Up Length: 1 month(s)

Intervention Type

Procedure/Surgery

Phase

Not Applicable

Primary outcome(s)

1. Protocol adherence
2. Selection bias
3. Recruitment rate
4. Red cell exposure
5. Information to inform the sample size of the phase III trial

Clinical Outcomes: Further bleeding up to Day 28: Further bleeding is a composite outcome that includes persistent bleeding

Key secondary outcome(s)

1. Further bleeding
2. 28-day mortality
3. Infections
4. Ischaemic/thromboembolic events

We will also collect data to guide a Health Economic evaluation for the phase III trial.

Completion date

01/02/2013

Eligibility

Key inclusion criteria

1. Adults aged ≥ 18 years presenting with AUGIB, defined by haematemesis or melaena.
2. >20 admissions with AUGIB per month
3. >400 hospital beds
4. Availability of 24 hours endoscopy and on-site access to intensive care and surgical support
5. Institutional agreement to transfuse all eligible new admissions with AUGIB in accordance with the randomised transfusion policy
6. Male & female participants
7. Lower Age Limit 18 years

Participant type(s)

Patient

Healthy volunteers allowed

No

Age group

Adult

Lower age limit

18 years

Sex

All

Key exclusion criteria

1. Patients for whom the responsible clinician considers there is a need for immediate RBC transfusion prior to obtaining or regardless of the initial Haemoglobin (Hb) result due to severity of bleeding (these patients should be managed according to the hospital's massive transfusion protocol or clinician discretion)
2. Existing hospital inpatients who develop an AUGIB

Date of first enrolment

01/09/2012

Date of final enrolment

01/02/2013

Locations**Countries of recruitment**

United Kingdom

England

Study participating centre

John Radcliffe Hospital

Oxford

United Kingdom

OX3 9BQ

Sponsor information**Organisation**

NHS Blood and Transplant Research & Development (UK)

ROR

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

Funder(s)

Funder type

Research organisation

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? |
|---|---------------------------|--------------|------------|----------------|-----------------|
| Results article | results | 29/04/2015 | | Yes | No |
| Results article | results | 11/07/2015 | | Yes | No |
| Protocol article | protocol | 01/07/2013 | | Yes | No |
| Other publications | strategies | 21/11/2014 | | Yes | No |
| Statistical Analysis Plan | statistical analysis plan | 10/07/2013 | | No | No |