Is early colonoscopy in patients with acute rectal blood loss better than standard colonoscopy?

Submission date	Recruitment status	Prospec
26/06/2017	No longer recruiting	[] Protoco
Registration date	Overall study status	[] Statistic
26/07/2017	Completed	[X] Results
Last Edited 01/03/2021	Condition category Digestive System	[_] Individu

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cal analysis plan

Jal participant data

Plain English summary of protocol

Background and study aims

Rectal blood loss is a frequently encountered medical condition and often requires in-hospital treatment. To determine the cause of blood loss, an endoscopic (a procedure that uses a camera attached on a thing long tube to see in the inside of the body) examination of the large intestine is usually performed (this is called a colonoscopy). Presently, there is not enough scientific evidence for the benefits of early colonoscopy (this is a colonoscopy within 24 hours after admission to the hospital), compared to colonoscopy within 1-3 days for patients with rectal blood loss. Possible advantages are a shorter stay in the hospital, less blood loss, earlier diagnosis of the cause of the blood loss and (if possible) earlier treatment of the underlying cause. The aim of this study is to examine the possible benefits of early colonoscopy.

Who can participate?

Adults aged 18 and older who have had a bloody bowel movement within 24 hours who come to the hospital

What does the study involve?

Participants are randomly allocated to one of two groups. Those in the first group receive the standard colonoscopy done within 24-72 hours of presenting at the hospital. Those in the second group receive a colonoscopy within 24 hours of presenting at the hospital. The colonoscopies are performed the same in each group. Participants are hospitalised after the procedure to monitor for blood loss. They are discharged according to the hospital's protocols. Participants attend a follow up visit where they are assessed for readmissions to the hospital, complications, and the yield of colonoscopy

What are the possible benefits and risks of participating? Participants may benefit from receiving a quicker colonoscopy. There are no risks with participating in this study. Colonoscopy has a slight risks for bleeding (<5%) and perforation (0.001%) in the large bowel.

Where is the study run from? Haaglanden Medical Centre (Netherlands)

When is the study starting and how long is it expected to run for? September 2012 to April 2015

Who is funding the study? Haaglanden Medical Centre (Netherlands)

Who is the main contact? Ms Inge van Rongen

Contact information

Type(s) Public

Contact name Ms Inge van Rongen

Contact details Haaglanden Medical Center

Lijnbaan 32 The Hague Netherlands 2501 CK

Additional identifiers

EudraCT/CTIS number

IRAS number

ClinicalTrials.gov number

Secondary identifying numbers 12-101

Study information

Scientific Title

Early versus standard colonoscopy: A randomised controlled trial in patients with acute lower gastro-intestinal bleeding

Acronym BLEED study

Study objectives Early colonoscopy will decrease length of hospital stay.

Ethics approval required

Old ethics approval format

Ethics approval(s) METC Zuid-West Holland (Medical Ethical Committee South West Holland), 25/02/2013, ref: 12-101

Study design Single centre non-blinded randomised controlled trial

Primary study design Interventional

Secondary study design Randomised controlled trial

Study setting(s) Hospital

Study type(s) Diagnostic

Participant information sheet See additional files (in Dutch)

Health condition(s) or problem(s) studied

Gastroenterology

Interventions

Patients presenting at the emergency department with acute hematochezia are consecutively included in the trial when they had an indication for clinical colonoscopy, according to the Dutch Guideline 'Bleedings of the gastrointestinal tract'. Participants are randomised 1:1 in parallel groups to either early colonoscopy (within 24 hours) or standard colonoscopy (within 24-72 hours). In case of a suspected upper source of bleeding, patients underwent an upper endoscopy first. When an upper bleeding source was excluded, they are randomised. If an upper bleeding source was confirmed, patients did not meet the inclusion criteria and are not eligible for the trial. An online randomisation programme is used (ALEA, designed by the Clinical Trial Centre Maastricht, The Netherlands), based on minimisation and including the stratification factors age (18-60 years and >60 years) and gender.

For both groups, colon preparation was performed using a polyethylene glycol-based solution.

Group 1: Participants in this group receive the colonoscopy within 24 hours. They have their bowel preparation done as soon as possible after inclusion in the study. If they are unable to drink (e.g. due to nausea or swallowing disorders) a nasogastric tube was placed.

Group 1: Participants in this group receive the standard colonscopy within 24-72 hours. When necessary, a nasogastric tube is placed.

All colonoscopies are performed by either one of the gastroenterologists (seven in total) in the Haaglanden Medical Centre or one of the residents in training for gastroenterology (under

supervision of a gastroenterologist). According to hospital protocol, all colonoscopies were performed with sedation using a combination of midazolam 5 mg/ml i.v. (Dormicum®, Roche B. V., Woerden, The Netherlands) and fentanyl 0.05 mg/ml i.v. (Hameln Pharma Plus GmbH, Hameln, Germany), dose depending on age and comorbidity.

The in-hospital treatment and discharge criteria are similar in both groups and in accordance with the hospital protocol. Once a participant is stabilized (hemodynamically stable, no visible active bleeding anstable hemoglobin level), they could be discharged from hospital.

Participants are followed for one month. The follow up comprised a visit to one of the gastroenterologists at the outpatient department, according to hospital protocol. If a participant does not attend the follow up visit, due to various reasons, the patient chart was retrospectively addressed to obtain data on readmissions and mortality.

Intervention Type

Other

Primary outcome measure

Hospital length of stay (in days) is measured calculated using the date and time of admission to hospital and the date and time of hospital discharge.

Secondary outcome measures

1. The yield of colonoscopy, defined as diagnosing either a confirmed or presumptive source of bleeding and treatment if feasible is obtained from electronic patient charts (colonoscopy reports)

2. The number of packed red blood cells is obtained from the electronic patient charts

3. Information on readmissions and the reason for readmission (rectal blood loss) is obtained from the electronic patient chart

4. Information on complications are obtained from the electronic patient chart

5. 30 day mortality is obtained from the electronic patient chart

Overall study start date

14/09/2012

Completion date 14/04/2015

Eligibility

Key inclusion criteria

- 1. Aged 18 years or over
- 2. Last bloody bowel movement within 24 hours of presentation
- 3. Ability to provide informed consent
- 4. No suspicion of or exclusion of an upper gastrointestinal bleeding source

Participant type(s)

Patient

Age group Adult

Lower age limit

18 Years

Sex Both

Target number of participants

132

Key exclusion criteria

- 1. Known or suspected acute ischemic bowel, perforation or peritonitis
- 2. Hemodynamic instability refractory to resuscitation
- 3. Coagulopathy refractory to correction
- 4. Documented pregnancy
- 5. Serious comorbidities that would preclude the use of colonoscopy in standard clinical practice
- (i.e. severe COPD, severe cardiovascular comorbidity)
- 6. Decreased level of consciousness.

Date of first enrolment 08/05/2013

Date of final enrolment 14/03/2015

Locations

Countries of recruitment Netherlands

Study participating centre Haaglanden Medical Centre The Hague Netherlands 2501 CK

Sponsor information

Organisation Research Fund of the Haaglanden Medical Centre

Sponsor details Lijnbaan 32 The Hague Netherlands 2501 CK **Sponsor type** Hospital/treatment centre

ROR https://ror.org/00v2tx290

Funder(s)

Funder type Research council

Funder Name Research Fund of the Haaglanden Medical Centre

Results and Publications

Publication and dissemination plan Planned publication in a high impact peer reviewed journal

Intention to publish date

30/06/2017

Individual participant data (IPD) sharing plan

The datasets generated during and/or analysed during the current study are/will be available upon request from Ms. I. van Rongen, i.vanrongen@haaglandenmc.nl or inge.van.rongen@gmail. com

IPD sharing plan summary

Available on request

Study outputs					
Output type	Details	Date created	Date added	Peer reviewed?	Patient-facing?
Participant information sheet	version V1	26/07/2017	26/07/2017	No	Yes
Results article	results	01/09/2019	29/01/2019	Yes	No