# What is the current standard of post-operative care for patients undergoing emergency abdominal surgery?

Submission date	Recruitment status	[X] Prospectively registered
19/12/2023	No longer recruiting	☐ Protocol
Registration date	Overall study status	Statistical analysis plan
12/03/2024	Completed	Results
Last Edited	Condition category	Individual participant data
07/08/2024	Digestive System	Record updated in last year

## Plain English summary of protocol

Background and study aims

The EMERALD study aims to learn about how people are treated after they have had a type of operation called an "emergency laparotomy." The team want to understand if the care that people receive after their operation has an impact on how quickly they get better.

#### Who can participate?

Adult patients aged 18 years old and over who have been diagnosed with a condition that requires an emergency laparotomy.

## What does the study involve?

Participants will be asked to complete some questionnaires about their quality of life and how they are feeling. They will be asked to complete these questionnaires when they enter the study and then at 7 days, 30 days, and 90 days after their operation. Relevant information about their health and the care that they receive after their operation will also be collected up until 90 days after their operation; this information will be collected from participants' standard clinic visits and routine healthcare records so there is nothing extra that participants will need to do.

What are the possible benefits and risks of participating?

There is unlikely to be a direct benefit to the patients who take part in this study. However, the information gained from this study will help identify the best way to care for people after they have had an emergency laparotomy. This may benefit people who are having an emergency laparotomy in the future. There is also no reason to believe that there will be any additional risks to patients if they take part in EMERALD.

Where is the study run from? The University of Leeds (UK).

When is the study starting and how long is it expected to run for? March 2021 to January 2025.

Who is funding the study? National Institute for Health and Care Research (NIHR)

Who is the main contact?
Associate Prof Deena Harji / Miss Rachel Kelly, EMERALD@leeds.ac.uk

# Contact information

## Type(s)

Public, Scientific

#### Contact name

Miss Rachel Kelly

#### Contact details

Senior Trial Coordinator, Clinical Trials Research Unit, University of Leeds Leeds United Kingdom LS2 9JT +44 (0)113 3436912 emerald@leeds.ac.uk

#### Type(s)

Principal Investigator

#### Contact name

Prof Deena Harji

#### Contact details

Chief Investigator, Clinical Trials Research Unit, University of Leeds Leeds United Kingdom LS2 9JT None provided D.Harji@leeds.ac.uk

# Additional identifiers

## **EudraCT/CTIS** number

Nil known

#### IRAS number

327554

#### ClinicalTrials.gov number

Nil known

#### Secondary identifying numbers

CPMS 56174, IRAS 327554

# Study information

#### Scientific Title

Improving outcomes in post-operative emergency laparotomy care - the EMERALD project phase 1: current standards of post-operative care in emergency laparotomy

#### Acronym

**EMERALD Phase 1 Cohort Study** 

#### **Study objectives**

The overall aim of EMERALD is to identify the current standards and variation in EmLap postoperative care across the United Kingdom and their impact on clinical, patient-reported outcomes and health-economic outcomes.

#### Ethics approval required

Ethics approval required

#### Ethics approval(s)

Approved 01/11/2023, West Midlands - South Birmingham Research Ethics Committee (2 Redman Place, Stratford, London, E20 1JQ, United Kingdom; None provided; Southbirmingham. rec@hra.nhs.uk), ref: 23/WM/0212

#### Study design

Observational cohort study

## Primary study design

Observational

## Secondary study design

Cohort study

## Study setting(s)

Home, Hospital, Internet/virtual, Medical and other records

## Study type(s)

Treatment

## Participant information sheet

Not available in web format, please use the contact details below to request a patient information sheet

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

Urgent or emergency abdominal surgery (EmLap) on the gastrointestinal tract postoperative care

#### **Interventions**

The EMERALD cohort study is a prospective, observational cohort study assessing clinical pathways, processes of care and interventions delivered in the post-operative emergency

laparotomy setting and their impact on clinical, patient-reported and health economic outcomes. Patients will be recruited over three months across 25 NHS sites and will be followed up for a period of up to 90 days postoperatively.

#### Study population

The study will recruit 750 adult patients ≥ 18 years old undergoing expedited, urgent or emergency abdominal surgery (EmLap) on the gastrointestinal tract. Patients undergoing EmLap for trauma, gynaecological conditions or complications of elective surgery will be excluded.

#### Site eligibility

To be eligible to participate in the trial, research sites must meet the following criteria:

- 1. Has dedicated emergency surgery services
- 2. Is contributing to the NELA/ELLSA audits
- 3. Has the anticipated capacity to recruit a minimum of 10 participants per month

## Participant identification and informed consent

Patients will be identified within the emergency general surgical framework at participating centres. Participating centres will be NHS hospitals with dedicated emergency surgery services and contributing to the NELA/ELLSA audits. All patients undergoing EmLap will be screened to assess their eligibility for participation.

Suitability for inclusion into the study will be assessed according to the eligibility criteria by an appropriately qualified member of the patient's healthcare team. Following confirmation of eligibility patients will be approached for possible recruitment into EMERALD by appropriately trained healthcare professionals or research nurses. Approach for participation can be preoperatively or in the immediate post-operative phase on Day 1 or any day up to and including Day 5 post-operation. Patients will be provided with a verbal explanation of the study by a suitably qualified member of the healthcare team along with an approved Participant Information Sheet (PIS). The PIS will provide detailed information about the rationale, design and personal implications of study participation.

Participants will be provided with an appropriate opportunity to discuss the study with their family and medically qualified members of the healthcare team before they are asked whether they would be willing to take part in the study. Given the emergency nature of EmLap the time available to consider participation will be shorter than in the elective setting, however, patients will be given as long as they need to consider participation into the study. For patients enrolled pre-operatively this will take into the account the time available prior to surgery, ideally this will be at least 2 hours. The right of the patient to refuse consent without giving reasons will be respected.

Assenting patients will then be invited to provide written informed consent for their participation in the trial and formally assessed for eligibility. Informed consent will be obtained by the PI, Associate PI or an appropriate, delegated healthcare professional. The healthcare professional must have knowledge of the study and have received training in the principles of GCP and the Declaration of Helsinki 1996. The healthcare professional must be fully trained in the study according to the ethically approved protocol and be authorised and approved by the PI to take informed consent as documented in the study Authorised Personnel Log (APL).

#### Registration

Following confirmation of written informed consent and eligibility, patients will be registered into the study by an authorised member of staff at the study site. Registration will be performed centrally using the CTRU automated 24-hour registration system which can be accessed via the

web. User ID codes and personal identification numbers (PINs), provided by the CTRU, will be required to access the registration system.

Data collected at registration will include:

- Patient details, including initials and date of birth
- Name and code of the research site
- Name of the person performing the registration
- Confirmation of eligibility
- Confirmation of written informed consent and date
- Date of operation

#### Data collection

Data will be collected on processes of clinical care, clinical outcomes, patient-reported outcomes (PROs) and health economic data.

Processes of Care: Each participating site will complete a baseline survey outlining the EmLap pathway delivered by each site. This will include the provision and timing of specialist services including dedicated nursing, physiotherapy, dietetics, occupational therapists etc and specific information regarding infrastructure i.e. dedicated ward, emergency general surgeons etc.

Clinical data collection: Clinical data will be collected at baseline (either pre-operatively or in the immediate post-operative period on day 1-5 post-op, depending on when the participant is recruited to the study), and at 30 days post-operation. The majority of this data will be collected through the linkage of routine datasets (NELA/ELLSA). Data on specific clinical outcomes including intra-operative complications, 30-day morbidity, grade of morbidity and 30-day hospital re-operation rates will be collected by local clinical teams.

Informed Consent Documents, Contact Details forms and Serious Adverse Event (SAE)/Related Unexpected Serious Adverse Event (RUSAE) data will be collected via paper case report forms and sent to CTRU via standard post, fax, email or secure file transfer, as appropriate.

All other data collected by site staff will be captured via Remote Data Entry on electronic case report forms in the MACRO study database, managed by the CTRU at the University of Leeds.

Participant-completed data: Participants will complete several questionnaires designed to capture health-related quality of life. Participants will be asked to complete these questionnaires at baseline and 7 days, 30 days and 90 days after their surgery. The baseline questionnaire pack will consist of 2 validated questionnaires and the follow-up questionnaire packs will consist of 3 validated questionnaires.

The baseline quality of life (QoL) questionnaire pack and 7-day post-operative QoL pack will be completed by participants on paper and will be administered to participants by site staff. Participants will be asked to seal their completed questionnaire packs in a pre-supplied envelope before giving it to the local research staff, who will then

post the sealed envelope to the CTRU for entry into the trial database. If it is not possible for the participant to complete the 7-day post-op questionnaires at the site, the local site research team can post the follow-up questionnaires to the participant; in this instance, a stamped, addressed envelope will be provided alongside the

questionnaires so that the participant can post their completed questionnaire pack to the CTRU.

Participants will complete the follow-up questionnaires at home and will have the option to complete these either on paper or online in REDCap. The follow-up questionnaires will be

administered directly to participants by the EMERALD CTRU trial team by post, text or email (depending on the participant's QoL-completion preferences). If participants choose to complete their follow-up questionnaires in paper format via post, a Freepost envelope will be provided so that they can return their completed questionnaire pack to the CTRU. If the participant has chosen to complete their 30/90-day post-op QoL questionnaires on paper but is still in hospital at 30 days post-operation, the 30-day post-

operative questionnaire pack will be administered to the participants by the local research team. Once completed, the participant should seal their questionnaire pack in the envelope provided and return it to a member of the local research team for posting to the CTRU. Should a completed 30/90 days post-op questionnaire not be received at the

CTRU by the required time-point, the CTRU will send one reminder to the participant either by post, SMS or email (depending on the participant's questionnaire-completion preference).

Routinely collected data: Routine clinical data will be linked with the National Emergency Laparotomy Audit (NELA) and the Emergency Laparotomy and Laparoscopic Scottish Audit (ELLSA) using patients' NHS/CHI number and two other identifiers e.g. date of birth and NELA /ELLSA ID. Routine clinical data will be collected from NELA and ELLSA by the CTRU at baseline and 30 days post-operation.

#### Intervention Type

Other

#### Phase

**Not Specified** 

#### Primary outcome measure

- 1. Intra-operative complications, defined as any adverse event encountered during the operation, measured using data collected from medical records at one time point
- 2. Post-operative complications, defined as any post-operative complication occurring within 30 days post-operatively, measured using data collected from medical records at one time point. These will be defined in keeping with the Clavien-Dindo classification.
- 3. Readmission rate, defined as any readmission to hospital within 30 days post-operatively, measured using data collected from medical records at one time point

## Secondary outcome measures

Quality of Life measured using the Gastrointestinal Quality of Life Index, EQ-5D-5L and the Quality of Recovery-15 score at baseline, 7, 30 and 90 days post-operatively

## Overall study start date

01/03/2021

## Completion date

31/01/2025

# Eligibility

# Key inclusion criteria

- 1. Aged > = 18 years old
- 2. Undergoing expedited, urgent or emergency abdominal surgery (EmLap) on the gastrointestinal tract
- 3. Be able to provide written informed consent

- 4. Able and willing to comply with the terms of the protocol
- 5. Able to read and write English

#### Participant type(s)

**Patient** 

#### Age group

Adult

#### Lower age limit

18 Years

#### Sex

Both

## Target number of participants

Planned Sample Size: 750; UK Sample Size: 750

#### Key exclusion criteria

- 1. Undergoing EmLap for trauma, gynaecological conditions or complications of elective surgery
- 2. Enrolled into an interventional emergency surgery trial e.g. LaCeS2 (the interventional trial should be prioritised)
- 3. Pre-existing cognitive impairment affecting the patient's capacity to consent

#### Date of first enrolment

25/06/2024

#### Date of final enrolment

31/10/2024

# Locations

#### Countries of recruitment

United Kingdom

## Study participating centre

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United Kingdom

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# **Sponsor information**

## Organisation

University of Leeds

#### Sponsor details

The Secretariat, Woodhouse Lane Leeds England United Kingdom LS2 9JT +44 (0)1133437587 governance-ethics@leeds.ac.uk

#### Sponsor type

University/education

#### Website

https://www.leeds.ac.uk/

#### ROR

https://ror.org/024mrxd33

# Funder(s)

## Funder type

Government

#### Funder Name

National Institute for Health and Care Research

#### Alternative Name(s)

National Institute for Health Research, NIHR Research, NIHRresearch, NIHR - National Institute for Health Research, NIHR (The National Institute for Health and Care Research), NIHR

## **Funding Body Type**

Government organisation

## **Funding Body Subtype**

National government

#### Location

**United Kingdom** 

## **Results and Publications**

## Publication and dissemination plan

Planned publication in a high-impact peer-reviewed journal

## Intention to publish date

# 31/01/2026

## Individual participant data (IPD) sharing plan

The data sharing plans for the current study are unknown and will be made available at a later date

## IPD sharing plan summary

Data sharing statement to be made available at a later date