

Clinical effectiveness and cost-effectiveness of emergency surgery for adult emergency hospital admissions with common acute gastrointestinal conditions: the ESORT study

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Declared competing interests of authors

Full disclosure of interests: Completed ICMJE forms for all authors, including all related interests, are available in the toolkit on the NIHR Journals Library report publication page at <https://doi.org/10.3310/CZFL0619>.

Primary conflicts of interest: Richard Grieve was a member of the National Institute for Health and Care Research (NIHR) Health Technology Assessment (HTA) Commissioning Committee (2017–21). Paul Charlton was a member of the NIHR HTA Commissioning Committee (2017–21).

Published January 2023

DOI: 10.3310/CZFL0619

Plain English summary

The ESORT study

Health and Social Care Delivery Research 2023; Vol. 11: No. 1

DOI: 10.3310/CZFL0619

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Plain English summary

Background

Many patients are admitted to NHS hospitals in an emergency with common acute conditions. In England, just over half of these patients have surgery within days of admission, and this is emergency surgery. Other patients have another approach to care, for example drug treatment or surgery at a later date.

Patients are treated differently across England. We do not know whether or not the benefits and costs of emergency surgery are greater than alternative approaches to care.

Methods

We aimed to find out which patients should have emergency surgery, and to understand the benefits, risks and costs involved. We used routinely collected information from hospitals in England for the years 2009–19 to compare:

- outcomes for patients who had emergency surgery or another approach to care
- the costs of emergency surgery and other approaches to care
- how benefits and costs change for different types of patients.

Results

Overall, we found that people tended to have similar outcomes and costs, regardless of whether they had emergency surgery or another approach to care.

However, for some subgroups, we did find the following important differences:

- For patients with intestinal obstruction who were not frail, we found that emergency surgery generally improved outcomes and reduced costs.
- For people who were very frail, other approaches to care led to greater benefits and reduced costs, and emergency surgery could lead to worse outcomes.

Further research to find out whether emergency surgery or later surgery improves outcome for patients with several long-term conditions would be useful.

Patient and public involvement

A patient and public involvement panel initially helped us focus on what outcomes matter for patients, and later helped us plan how to communicate our results to the public.

We worked with people with autism or learning difficulties to produce an easy-read guide that explained the study and how research can use health records.

Health and Social Care Delivery Research

ISSN 2755-0060 (Print)

ISSN 2755-0079 (Online)

Health and Social Care Delivery Research (HSDR) was launched in 2013 and is indexed by Europe PMC, DOAJ, INAHTA, Ulrichsweb™ (ProQuest LLC, Ann Arbor, MI, USA) and NCBI Bookshelf.

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Editorial contact: journals.library@nihr.ac.uk

This journal was previously published as *Health Services and Delivery Research* (Volumes 1–9); ISSN 2050-4349 (print), ISSN 2050-4357 (online)

The full HSDR archive is freely available to view online at www.journalslibrary.nihr.ac.uk/hsdr.

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This report

The research reported in this issue of the journal was funded by the HSDR programme or one of its preceding programmes as project number 18/02/25. The contractual start date was in October 2019. The final report began editorial review in November 2021 and was accepted for publication in May 2022. The authors have been wholly responsible for all data collection, analysis and interpretation, and for writing up their work. The HSDR editors and production house have tried to ensure the accuracy of the authors' report and would like to thank the reviewers for their constructive comments on the final report document. However, they do not accept liability for damages or losses arising from material published in this report.

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