

Evaluation of a national quality improvement program to overcome barriers to using performance data in intensive care medicine

Submission date 26/08/2010	Recruitment status No longer recruiting	<input type="checkbox"/> Prospectively registered <input checked="" type="checkbox"/> Protocol
Registration date 01/11/2010	Overall study status Completed	<input type="checkbox"/> Statistical analysis plan <input checked="" type="checkbox"/> Results
Last Edited 13/07/2015	Condition category Other	<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

Protocol serial number
N/A

Study information

Scientific Title

Evaluation of a national quality improvement program to overcome barriers to using performance data in intensive care medicine: A cluster randomised controlled trial

Acronym

InFoQI (Information Feedback on Quality Indicators)

Study objectives

Giving intensive care units (ICUs) more detailed information on their performance, supporting them with interpretation of these performance data and supporting them with formulating quality improvement actions will lead to higher quality of intensive care compared to only sending ICUs a standard feedback report containing less detailed information on their performance

Ethics approval required

Old ethics approval format

Ethics approval(s)

We sought advice from the Medical Ethics Board of the Academic Medical Center (Amsterdam, the Netherlands) and were told that approval was not necessary as the study does not interfere with the conventional care process.

Study design

Clustered randomised controlled trial

Primary study design

Interventional

Study type(s)

Other

Health condition(s) or problem(s) studied

Quality improvement in intensive care medicine

Interventions

Intensive care units participating in InFoQI establish a local multidisciplinary quality improvement team, consisting of at least one intensivist and one ICU nurse. The team's main tasks are to formulate a quality improvement action plan based on their baseline performance indicator data and to monitor their performance using monthly and quarterly feedback reports. The team is supported in these tasks by facilitators during two educational outreach visits - and by phone and e-mail. The facilitators promote the use of the PDSA cycle to guide organisational changes.

Participating ICUs were followed during one year.

Intervention Type

Other

Phase

Not Applicable

Primary outcome(s)

- 1. Clinical:
ICU length of stay
- 2. Non-clinical:
Proportion of shifts with a bed occupancy of 100% or more

Key secondary outcome(s))

- 1. Clinical:
 - 1.1. Hospital mortality of ICU patients
 - 1.2. Respiration duration
- 2. Non-clinical:
Proportion of shifts with a nurse-to-patient ratio below 0.5

Completion date

01/02/2011

Eligibility

Key inclusion criteria

Intensive Care Units that are able to provide their performance data to the national comparative quality registry on intensive care medicine in the Netherlands (NICE registry) and have at least one intensivist and one ICU nurse available for a minimum of four hours per month each. Informed consent was signed by the ICU management before randomisation.

Participant type(s)

Health professional

Healthy volunteers allowed

No

Age group

Adult

Sex

All

Key exclusion criteria

Intensive Care Units that did not meet the inclusion criteria

Date of first enrolment

01/01/2009

Date of final enrolment

01/02/2011

Locations

Countries of recruitment

Netherlands

Study participating centre
Academic Medical Centre
Amsterdam
Netherlands
1100 DD

Sponsor information

Organisation
Academic Medical Centre (AMC) (Netherlands)

Organisation
University of Tilburg

Organisation
NICE Foundation

Organisation
Academic Medical Center

ROR
<https://ror.org/03t4gr691>

Funder(s)

Funder type
Hospital/treatment centre

Funder Name
Academic Medical Centre (Netherlands) - Department of Medical Informatics

Funder Name
University of Tilburg (Netherlands) - Scientific Centre for Transformation in Care and Welfare

Funder Name

NICE Foundation, Amsterdam (Netherlands)

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	08/07/2015		Yes	No
Protocol article	protocol	24/10/2011		Yes	No
Participant information sheet	Participant information sheet	11/11/2025	11/11/2025	No	Yes