

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

Contact name
Dr Nicolette de Keizer

Contact details
Academic Medical Centre
Department of Medical Informatics (J1B-115)
PO Box 22660
Amsterdam
Netherlands
1100 DD
+31 (0)20 566 5205
n.f.keizer@amc.uva.nl

Additional identifiers

EudraCT/CTIS number

IRAS number

ClinicalTrials.gov number

Secondary identifying numbers

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

Secondary study design

Cluster randomised trial

Study setting(s)

Hospital

Study type(s)

Other

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

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 measure

1. Clinical:

ICU length of stay

2. Non-clinical:

Proportion of shifts with a bed occupancy of 100% or more

Secondary outcome measures

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

Overall study start date

01/01/2009

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

Age group

Adult

Sex

Both

Target number of participants

30 ICUs

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)

Sponsor details

Department of Medical Informatics

PO Box 22660

Amsterdam

Netherlands

1100 DD

+31 (0)20 566 5269

kik@amc.nl

Sponsor type

Hospital/treatment centre

Organisation

University of Tilburg

Sponsor details

Scientific Center for Transformation in Care and Welfare
Warandelaan 2
Tilburg
Netherlands
5000LE

Sponsor type

University/education

Organisation

NICE Foundation

Sponsor details

PO Box 23640
Amsterdam
Netherlands
1100 EC

Sponsor type

Charity

Organisation

Academic Medical Center

Sponsor details

Sponsor type

Not defined

Website

<https://www.amc.nl/web/Zorg.htm>

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

Publication and dissemination plan

Not provided at time of registration

Intention to publish date**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?
Protocol article	protocol	24/10/2011		Yes	No
Results article	results	08/07/2015		Yes	No