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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	[_] Prospectively registered [X] Protocol [_] Statistical analysis plan [X] Results [_] Individual participant data
Registration date 01/11/2010	**Overall study status** Completed	
Last Edited 13/07/2015	**Condition category** Other	

Plain English summary of protocol
Not provided at time of registration

Contact information

Type(s)
Scientific

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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
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Sponsor information

Organisation
Academic Medical Centre (AMC) (Netherlands)

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Sponsor type
Hospital/treatment centre

Organisation

University of Tilburg

Sponsor details
Scientific Center for Transformation in Care and Welfare
Warandelaan 2
Tilburg
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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