

Permissive underfeeding versus target enteral feeding in adult critically ill patients

Submission date 12/05/2009	Recruitment status No longer recruiting	<input type="checkbox"/> Prospectively registered <input checked="" type="checkbox"/> Protocol
Registration date 24/06/2009	Overall study status Completed	<input type="checkbox"/> Statistical analysis plan <input checked="" type="checkbox"/> Results
Last Edited 15/04/2020	Condition category Nutritional, Metabolic, Endocrine	<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

EudraCT/CTIS number

IRAS number

ClinicalTrials.gov number

Secondary identifying numbers

Study information

Scientific Title

The impact of permissive underfeeding versus target enteral feeding on mortality and morbidity in adult critically ill patients: a multicentre randomised controlled trial

Study objectives

1. To assess the effect of permissive underfeeding versus target feeding intake on mortality and morbidity of critically ill patients
2. To assess the effect of low versus high caloric intake on the incidence of nosocomial infections

Due to an error made at the time of registration, the overall trial end date was showing as 01/09/2009. As of 02/11/2010 this has now been amended and the correct end date of 01/09/2013 has been added to the overall trial end date field below.

On 06/11/2014 the following changes were made to the trial record:

1. The target number of participants was changed from 862 to 892.
2. The overall trial end date was changed from 01/09/2013 to 30/12/2014.

Ethics approval required

Old ethics approval format

Ethics approval(s)

Institutional Review Board of the National Guard Health Affairs, King Abdul Aziz Medical City, 08/04/2009, ref: IRBC/017/09

Study design

Multicentre randomised controlled trial

Primary study design

Interventional

Secondary study design

Randomised controlled trial

Study setting(s)

Hospital

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

Enteral feeding

Interventions

All patients admitted to ICU will be screened within first 48 hours for eligibility and all potential eligible candidates will be identified. Patients will be allocated to one of the two groups:

1. Permissive underfeeding group: intake targeting 40 - 60% of calculated caloric requirement
2. Target group: intake targeting 70 - 100% of calculated caloric requirement

The allocated diet (permissive underfeeding versus target feeding) will be undertaken for a maximum of 14 days on study feeding protocol or at ICU discharge (whichever is earlier). Upon discharge from the ICU, feeding and glucose control will be at the discretion of ward clinicians. If oral feeding is started and tolerated for more than 24 hours, a Do-Not-Resuscitate order has been written (after enrolment) or brain death is confirmed (after enrolment) the study will be stopped in these participants.

Intervention Type

Other

Phase

Not Applicable

Primary outcome measure

90 day-all cause mortality: death before or at day 90 of enrolment

Secondary outcome measures

1. ICU mortality: death in the ICU during the same ICU admission
2. Hospital mortality: death in the hospital (in ICU or on floor) during the same hospital admission
3. 180-day mortality: death before or at day 180 of enrolment
4. Daily Sequential Organ Failure Assessment (SOFA) scores recorded on days 1, 3, 7, 14, 21 and 28

Overall study start date

01/06/2009

Completion date

30/12/2014

Eligibility

Key inclusion criteria

1. Receiving enteral feeding
2. Aged greater than or equal to 18 years, either sex
3. Expected to stay 48 hours or more in the ICU

Participant type(s)

Patient

Age group

Adult

Lower age limit

18 Years

Sex

Both

Target number of participants

892

Key exclusion criteria

1. Terminal illness
2. Do not resuscitate (DNR) order (no code, no escalation) in the first 48 hours
3. Enteral feeding cannot be started within 48 hours of admission
4. Total parenteral nutrition (TPN)
5. Oral feeding
6. Previously enrolled in this study within the same hospital admission
7. Brain death within 48 hours of admission
8. Pregnancy
9. Post-liver transplant
10. Post cardiac arrest
11. Burn patients
12. Prisoners
13. Elderly subjects aged greater than 80 years
14. Patients on more than one inotropic support at maximum dose

Date of first enrolment

01/06/2009

Date of final enrolment

30/12/2014

Locations**Countries of recruitment**

Bahrain

Canada

Germany

Saudi Arabia

United Arab Emirates

Study participating centre

King Saud Bin Abdulaziz University for Health Sciences

Riyadh

Saudi Arabia

11426

Sponsor information

Organisation

King Abdullah International Medical Research Center (KAIMRC) (Saudi Arabia)

Sponsor details

National Guard Health Affairs
King Saud Bin Abdulaziz University for Health Sciences
King Abdulaziz Medical City
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Sponsor type

Hospital/treatment centre

Website

<http://kaimrc.info/>

ROR

<https://ror.org/009p8zv69>

Funder(s)

Funder type

Research organisation

Funder Name

King Abdullah International Medical Research Center (KAIMRC) (Saudi Arabia)

Funder Name

King Abdul Aziz Medical City (Saudi Arabia)

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	12/10/2012		Yes	No
Results article	results	18/06/2015		Yes	No
Results article	results	20/12/2018		Yes	No
Results article	results	01/02/2019		Yes	No
Results article	results	01/02/2019	15/04/2020	Yes	No