REsting enERgy Expenditure in mechanically ventilated patients in the ICU and during COnValescence: a prospective cohort study

No registrations found.

Ethical review	Not applicable
Status	Recruitment stopped
Health condition type	-
Study type	Observational non invasive

Summary

ID

NL-OMON23231

Source
Nationaal Trial Register

Brief title
RECOVER-energy ICU Study

Health condition

Critical Illness

Sponsors and support

Primary sponsor: NA
Source(s) of monetary or material Support: NA

Intervention

Outcome measures

Primary outcome

To compare resting energy expenditure (REE), measured by indirect calorimetry, during ICU

stay and post-ICU hospital stay.

Secondary outcome

To compare VCO2, VO2 and respiratory quotient (RQ), measured by the QNRG indirect calorimeter during ICU and post-ICU hospital stay. To compare REE measured by QNRG with the calculated REE using the VCO2-method and several other predictive equations. To associate REE and physical performance using the CPAx-score at the ICU- and hospital discharge.

Study description

Background summary

Single center prospective cohort study to compare the resting energy expenditure (REE), measured by the QNRG indirect calorimeter, during ICU stay and post-ICU hospital stay.

Study objective

During the convalescence phase of critical illness patients will enter an anabolic phase in which REE increases and there is a subsequent increased nutritional need.

Study design

IC measurements upon admission and once per 72 hours in ICU and the first week post ICU discharge and once a week until hospital discharge, thereafter.

Contacts

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Eligibility criteria

Inclusion criteria

Admitted to the ICU of the ZGV hospital aged 18 and above, endotracheally mechanically ventilated, expected to be in ICU for more than 48 hours, expected to be in the general ward after ICU discharge.

Exclusion criteria

Fraction of inspired oxygen >0.7, PEEP>12 cm H2O, air leaks through tubes/cuffs and/or chest drains, pneumothorax, tracheaoesophageal fistulae or subcutaneous emphysema, unavailability of the QNRG metabolic monitor, peritoneal or hemodialysis or hemofiltration up to 4 hours before/after a session or during CRRT, expected to be transferred.

Study design

Design

Study type:	Observational non invasive
Intervention model:	Other
Allocation:	Non controlled trial
Masking:	Open (masking not used)
Control:	N/A , unknown

Recruitment

NL

Recruitment status:	Recruitment stopped
Start date (anticipated):	27-07-2020
Enrollment:	30
Type:	Actual

IPD sharing statement

Plan to share IPD: No

Ethics review

Not applicable
Application type: Not applicable

Study registrations

Followed up by the following (possibly more current) registration

No registrations found.

Other (possibly less up-to-date) registrations in this register

No registrations found.

In other registers

Register	ID
NTR-new	NL8907
Other	ZGV BCWO : 2002-007

Study results