

Measuring muscle mass in hospitalised acutely ill frail elderly

No registrations found.

Ethical review	Positive opinion
Status	Other
Health condition type	-
Study type	Observational non invasive

Summary

ID

NL-OMON23884

Source

Nationaal Trial Register

Health condition

Bioelectrical impedance analysis, multifrequency Bioelectrical impedance analysis, BIA, mf-BIA, mfBIA, frail elderly, frail, elderly, hospitalised, nutrition, hydration, hydrational status, Muscle mass, spiermasse, ouderen, kwetsbare ouderen, ziekenhuisopname, hydratatie, nutritie

Sponsors and support

Primary sponsor: Maastricht University faculty of Health, Medicine and Life sciences
Orbis Medical Center, department of geriatric medicine

Source(s) of monetary or material Support: W. Sipers - Klinisch geriater

Intervention

Outcome measures

Primary outcome

- Changes in measured muscle mass
- Changes in measured extracellular water
- Changes in measured intracellular water
- Influence of catheter or IV fluid on measurements

- Correlation between these changes

Secondary outcome

- influence of nutritional changes/meals on measurement of muscle mass
- Correlation between clinically estimated hydration status, estimated serum osmolality and measured serum osmolality.

Study description

Study objective

Hypothesis A: We expect a decline in measured muscle mass during the initial days of hospital admission, also we do not expect hydration changes to be of great influence on estimated muscle mass.

Hypothesis B: We expect that the time of the day on which bioelectrical impedance measurements are executed does not significantly influence estimated results.

Hypothesis C: we expect only a crude correlation between clinically estimated hydration status, estimated serum osmolality and measured serum osmolality

Study design

Measurements on four or five consecutive days for sub population A
Three consecutive measurements on one day for study population B

Intervention

Multifrequency Bioelectrical impedance analysis using Maltron 920 II S

Contacts

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Eligibility criteria

Inclusion criteria

- acutely ill frail elderly patients admitted to the geriatric ward of the Orbis Medical Centre or placed under the care of a geriatrician.
- Frail elderly (Fried score >2)
- Expected to be able to acquire at minimum of four independent measurements.

Exclusion criteria

- Terminally ill
- Pacemaker or ICD implantation
- No informed consent

Study design

Design

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

Recruitment

NL	
Recruitment status:	Other
Start date (anticipated):	01-01-2015
Enrollment:	100

Type:

Unknown

Ethics review

Positive opinion

Date:

11-12-2014

Application type:

First submission

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	NL4788
NTR-old	NTR4928
Other	Orbis Medisch Centrum en Zorgconcern : 14N168

Study results