



NUTRITIONAND RESISTANCE TRAINING

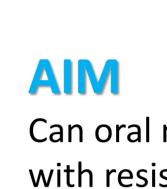
in malnourished surgical patients

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41% at nutritional risk

BACKGROUND

In a recent study we found that 41% of surgical patients at the National Hospital of Faroe Islands were at nutritional risk. This is similar to international findings. Only a few patient groups are offered post-discharge dietary advice and/or supervised training on a routinely basis.



SURGERY

Can oral nutritional supplements combined with resistance training minimize skeletal muscle atrophy in malnourished surgical

patients following discharge?

Patients with major surgery such

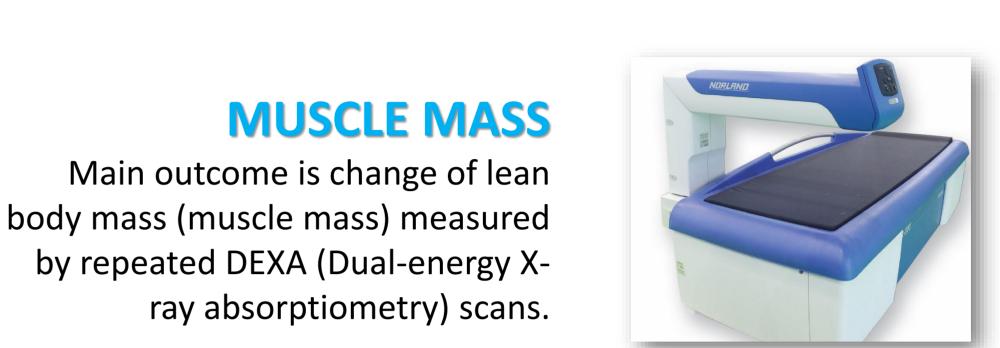
as gastrointestinal surgeries, hip

fractures and other complex surgical

replacements, collum femoris

procedures can participate

MALNUTRITION



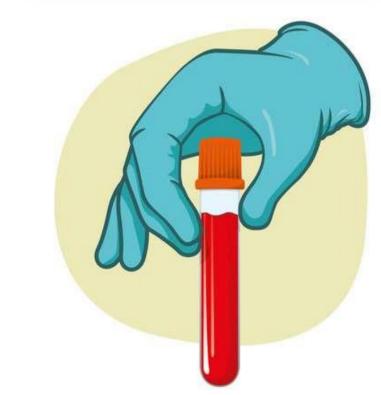
HAND GRIP STRENGTH

Hand grip strength is measured by using a dynamometer, as an indicator for nutritional and functional status.



BLOOD TESTS

Vitamin- and mineral deficiencies, anaemia and infection is measured by blood tests.



MOBILITY Functional abilities and activity of daily living is tested by a physiotherapist



QUESTIONNAIRES

Quality of life, pain and complications are assessed by standardised validated questionnaires.



Patients are screened for malnutrition postoperatively. Only patients at risk of malnutrition are invited to participate. Malnutrition is unintended weight loss and/or low dietary intake in combination with major surgery.



MALNUTRITION

RANDOMISED CONTROLLED TRIAL

MASU is three armed randomised interventional study lasting 8 weeks. All outcome measures are assessed at discharge (PRE) and 8 weeks post-discharge (POST).



PROTEIN

Patients randomized into the intervention group 1 and 2 get two protein drinks a day and dietary advice about eating foods rich in energy and protein.



SURGICAL PROCEDURES

controls.

35 PATIENTS RECRUITED

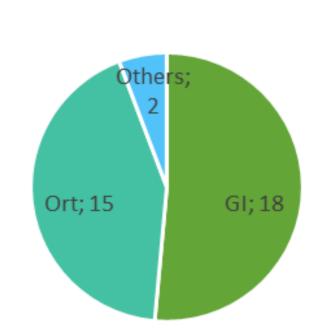
Recruitment is ongoing. 17 women and 18 men

group, 13 to the training and diet group, 12 are

(23-85 y). 10 people are allocated to the diet

have been recruited so far. Mean age is 59,5 years

6 minimal invasive and 29 open surgical procedures were performed. 18 gastrointestinal, 15 orthopaedic and 2 others.



TRAINING

Patients randomized into group 2 get supervised exercise and progressive strength training by a physiotherapist

DISCLOSURE AND ACKNOWLEDGEMENT

The MASU study is funded by The Faroese Health Insurance Fund, the National Hospital of Faroe Islands and University of Copenhagen. Nestlé Health Science is providing oral nutritional supplements.









Contact pp@ls.fo, visit the webpage www.ls.fo/masustudy or use the QR code