

Nutritional status, vulnerability and disability in COPD patients

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Ethische beoordeling	Positief advies
Status	Werving gestart
Type aandoening	-
Onderzoekstype	Observationeel onderzoek, zonder invasieve metingen

Samenvatting

ID

NL-OMON29331

Bron

NTR

Aandoening

malnutrition
ondervoeding
frailty
kwetsbaarheid
disability
invaliditeit

Ondersteuning

Primaire sponsor: University Medical Center Groningen

Overige ondersteuning: Living Lab (Innovatiewerkplaats) Clinical Malnutrition, part of Centre of Expertise Healthy Ageing (www.healthyageing.net)

Onderzoeksproduct en/of interventie

Uitkomstmaten

Primaire uitkomstmaten

disease-related malnutrition

frailty

disability

Toelichting onderzoek

Achtergrond van het onderzoek

This study will take place in the Netherlands.

Frailty is a strong predictor for the adverse clinical outcome of disability. The complex interactions between factors of the multidimensional and dynamic concept of frailty remain to be clarified (de Vries, Staal et al. 2011). Since malnutrition has such an impact on physical performance, frailty and malnutrition are suspected to correlate firmly. Knowing in what way these conditions influence each other is extremely important in achieving to revolve the process of becoming frail and disable.

The main objective of this study is to investigate whether changes in nutritional status correlate to changes in frailty status, and whether these changes impact on disability as a clinical outcome in patients with a chronic obstructive pulmonary disease. The secondary objective is to explore adaptive strategies for dietary challenges in patients with chronic obstructive pulmonary disease, and thus identify predictors of dietary resilience, and dietary resiliency subsequently.

Doel van het onderzoek

Frailty is considered to be a clinical state in which there is an increase in an individual's vulnerability for developing increased dependency and/or mortality when exposed to a stressor (Morley, Vellas et al. 2013). Frailty is a strong predictor for the adverse clinical outcome of disability. This is an individual problem, but also very relevant to society; people are getting older but not necessarily in an independent and healthy way. The complex interactions between factors of the multidimensional and dynamic concept of frailty remain to be clarified (de Vries, Staal et al. 2011).

Since malnutrition has such an impact on physical performance, frailty and malnutrition are suspected to correlate firmly. Knowing in what way these conditions influence each other is extremely important in achieving to revolve the process of becoming frail and disable.

The main objective of this study is to investigate whether changes in nutritional status correlate to changes in frailty status, and whether these changes impact on disability as a clinical outcome in patients with a chronic obstructive pulmonary disease. The secondary objective is to explore adaptive strategies for dietary challenges in patients with chronic obstructive pulmonary disease, and thus identify predictors of dietary resilience, and dietary resiliency subsequently.

Onderzoeksopzet

Patients will be assessed 3 times during their 9 weeks of rehabilitation (begin, middle and end) and 4 times in follow-up setting (3 months, 6 months, one year and two years after finishing the rehabilitation program)

The following measures (tests and questionnaires) will be performed on every occasion: body weight, length, accelerometer, mid upper arm circumference and triceps skinfold, bio-electrical impedance analysis (including vector analysis), muscle ultrasound scan, handgrip strength, gait speed, Short Physical Performance Battery, muscle tone, PG-SGA®, MNA®, EFIP, GFI, Fried's criteria, WHODAS 2.0, food diary.

Onderzoeksproduct en/of interventie

This study will be conducted in adult patients with chronic obstructive pulmonary disease following a rehabilitation program of 9 weeks. The sample will be stratified according to nutritional status classified by PG-SGA category A, B or C (classification A (well nourished), B (moderately malnourished or risk for malnutrition) or C (severely malnourished) to assure an adequate level of distribution in the domain of malnutrition in the study population.

Contactpersonen

Publiek

Lectoraat Healthy Ageing, Allied Health Care and Nursing - Hanze University of Applied Sciences

Lies ter Beek
Eyssoniusplein 18

Groningen 9714 CE
The Netherlands

Wetenschappelijk

Lectoraat Healthy Ageing, Allied Health Care and Nursing - Hanze University of Applied Sciences

Lies ter Beek
Eyssoniusplein 18

Groningen 9714 CE
The Netherlands

Deelname eisen

Belangrijkste voorwaarden om deel te mogen nemen (Inclusiecriteria)

Aged 40 years or older

Able to understand and speak the Dutch language

Diagnosed with COPD by a pulmonary physician

Attending the full rehabilitation program

Belangrijkste redenen om niet deel te kunnen nemen (Exclusiecriteria)

Wheel chair dependency

Any contra-indication for physical exercise

Severe cognitive disabilities

Skin allergy or highly sensitive skin

Palliative treatment

Pacemaker

Onderzoeksopzet

Opzet

Type:	Observationeel onderzoek, zonder invasieve metingen
Onderzoeksmodel:	Anders
Toewijzing:	N.v.t. / één studie arm
Blinding:	Open / niet geblindeerd
Controle:	N.v.t. / onbekend

Deelname

Nederland
Status: Werving gestart
(Verwachte) startdatum: 30-03-2015
Aantal proefpersonen: 86
Type: Verwachte startdatum

Ethische beoordeling

Positief advies
Datum: 26-03-2015
Soort: Eerste indiening

Registraties

Opgevolgd door onderstaande (mogelijk meer actuele) registratie

Geen registraties gevonden.

Andere (mogelijk minder actuele) registraties in dit register

Geen registraties gevonden.

In overige registers

Register	ID
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NTR-new	NL4862
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NTR-old	NTR5107
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Ander register Medisch Ethische Toetsingscommissie UMC Groningen : 2014/432

Resultaten