

Gait patterns in patients with COPD

No registrations found.

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

Summary

ID

NL-OMON22446

Source

NTR

Health condition

Chronic Obstructive Pulmonary Disease (COPD)

Sponsors and support

Primary sponsor: CIRO+, Centre of expertise for chronic organ failure

Source(s) of monetary or material Support: CIRO+, Centre of expertise for chronic organ failure

Intervention

Outcome measures

Primary outcome

- 6MWD
- Variability of Centre of Mass in medio lateral direction

Secondary outcome

- Variability of COM in anterior-posterior (COMAP) and vertical (COMV) direction.
- Centre of Pressure (COP) in medio-lateral, anterior-posterior and vertical direction, respectively COPML, COPAP, COPV.
- Average walking speed

- Step length
- Stride length
- Cadence
- Number of stops
- Assessment parameters

Study description

Background summary

Chronic obstructive pulmonary disease (COPD) is characterized by dyspnea, a lower quality of walking ability and more balance disturbances. Until now, gait patterns of COPD patients have only been investigated by accelerometers. Only few differences in gait patterns have been found, for example higher walking variability (medio-lateral displacement) and lower cadence. With a new device, the GRAIL, gait patterns can be assessed more extensively.

Study objective

Patients with COPD have altered gait patterns compared to healthy controls.

Study design

At the start and endpoint of pulmonary rehabilitation.

Intervention

n/a

Contacts

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Eligibility criteria

Inclusion criteria

Patients:

COPD, aged between 40-85 years, referral for assessment in CIRO+, clinically stable

Controls:

aged between 20-85 years

Exclusion criteria

Neuromuscular co-morbidities, subjects who are unable to walk without walking aids, subjects with open wound, medical history of asthma, lung cancer, sarcoidosis, tuberculosis, lung fibrosis, or any other significant respiratory disease; having undergone lung surgery, or history of orthopaedic ailments which could affect the walking pattern.

Controls: any significant respiratory disease or chronic heart failure.

Study design

Design

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

Recruitment

NL

Recruitment status:	Pending
Start date (anticipated):	01-02-2014
Enrollment:	300
Type:	Anticipated

Ethics review

Positive opinion	
Date:	21-02-2014
Application type:	First submission

Study registrations

Followed up by the following (possibly more current) registration

ID: 41654
Bron: ToetsingOnline
Titel:

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

No registrations found.

In other registers

Register	ID
NTR-new	NL4278
NTR-old	NTR4421
CCMO	NL46880.060.13
OMON	NL-OMON41654

Study results

Summary results

n/a