Practicality and relevance of the SNIP in patients with neuromuscular disease.

Published: 15-05-2007
Last updated: 08-05-2024

The aim of this study is to describe the values of the SNIP in patients with neuromuscular disease and various respiratory conditions and to assess the practicability of the SNIP in these patients.

Ethical review	Approved WMO
Status	Recruitment stopped
Health condition type	Muscle disorders
Study type	Observational non invasive

Summary

ID

NL-OMON30918

Source
ToetsingOnline

Brief title
Practicality SNIP

Condition

- Muscle disorders
- Neuromuscular disorders

Synonym
inspiratory muscle strength, respiratory function in patients with neuromuscular disease

Research involving
Human

Sponsors and support

Primary sponsor: Academisch Medisch Centrum
Source(s) of monetary or material Support: Ministerie van OC&W

Intervention

Keyword: neuromuscular disease, nocturnal hypoventilation, practicality, SNIP

Outcome measures

Primary outcome

Description of the values of the SNIP in patients with neuromuscular diseases.

The feasibility of the SNIP in patients with neuromuscular disease in

comparison with the VC and MIP.

Secondary outcome

The feasibility of the SNIP in children and ALS patients in comparison with the

VC and MIP.

The practicality of the SNIP from the perspective of the patient and the

performer of the tests.

Study description

Background summary

The SNIP is novel test for measuring the inspiratory muscle strength. The drawback of usual tests, like the vital capacity (VC) and maximal inspiratory pressure (MIP), is that low values may occur due to submaximal effort, or air leaks rather than respiratory muscle weakness. The SNIP is a natural manoeuvre and therefore easier to perform and less unpleasant than the MIP.

Study objective

The aim of this study is to describe the values of the SNIP in patients with neuromuscular disease and various respiratory conditions and to assess the practicability of the SNIP in these patients.

Study design

It is a pilot study with a quantitative , descriptive, cross-sectional design

Study burden and risks

De SNIP is measured in an occluded nostril during a maximal sniff manoeuvre through the contralateral nostril. The plug is connected by means of a catheter with a pressure monitor. Patients will perform a maximum of 5 sniffs. The test will take in total five minutes maximally. After the test the patient will answer 6 questions about the performance of the SNIP.

Contacts

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Trial sites

Listed location countries

Netherlands

Eligibility criteria

Age
Adolescents (12-15 years)
Adolescents (16-17 years)
Adults (18-64 years)
Children (2-11 years)
Elderly (65 years and older)

Inclusion criteria

Neuromuscular disease with a risk of nocturnal hypoventilation

Exclusion criteria

Home mechanical ventilation

Study design

Design

Study type: Observational non invasive

Masking:	Open (masking not used)
Control:	Uncontrolled
Primary purpose:	Diagnostic

Recruitment

NL

Recruitment status:	Recruitment stopped
Start date (anticipated):	04-06-2007
Enrollment:	145
Type:	Actual

Ethics review

Approved WMO

Date:	15-05-2007
Application type:	First submission
Review commission:	METC Universitair Medisch Centrum Utrecht (Utrecht)

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
CCMO	NL16492.041.07