# Feasibility and Reliability of the Muscle Sound® Technique in Morbidly Obesity Population

No registrations found.

Ethical review	Not applicable
Status	Recruitment stopped
Health condition type	-
Study type	Observational non invasive

# **Summary**

### ID

NL-OMON24685

**Source** Nationaal Trial Register

Brief title MUST-MOP

**Health condition** 

Obesity

### **Sponsors and support**

Primary sponsor: 1. University of Groningen/Campus Fryslân 2. Medical Centre LeeuwardenSource(s) of monetary or material Support: 1. Medical Centre Leeuwarden2. University of Groningen/Campus Fryslân

### Intervention

### **Outcome measures**

#### **Primary outcome**

Feasibility (% successful measurement)

#### Secondary outcome

Reliability (intra-observer variance)

# **Study description**

#### **Background summary**

In obesity, muscle mass is estimated to be relatively low. A low muscle mass together with high fat mass is also called sarcopenic obesity. Sarcopenic obesity has been associated higher risks of diabetes mellitus type 2 and hypertension, compared to general obesity. Sarcopenic obesity is also characterized by lower psychological health, quality of life and all-cause mortality compared to general obesity. This indicates that it is important to preserve muscle mass during weight loss, which leads to a need for validated methods for estimating muscle mass in obese populations. Recently new software to quantify muscle with ultrasonography has been developed (Muscle Sound®). This software has been validated in healthy adults, athletes and critically ill patients. However, this software has yet to be validated in an obese population. The goal of this study is to evaluate the feasibility and reproducibility of Muscle Sound® in a morbid obese population.

Study design: This study is a prospective observational study to look at the feasibility and reproducibility of ultrasonography to quantify muscle.

Study population: The population will consist of patients approved for bariatric surgery at the Center for Obesity Netherlands (CON) according to the guidelines of the International Federation for the Surgery of Obesity and Metabolic Disorders (IFSO).

Main study parameters/endpoints: The main endpoint is the feasibility of Muscle Sound® by using the percentage of successful measurements.

#### **Study objective**

Muscle Sound<sup>®</sup> Technique is a feasible method to quantify muscle mass in a morbidly obese population

#### Study design

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# Contacts

#### Public

Medisch Centrum Leeuwarden

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# **Eligibility criteria**

### **Inclusion criteria**

All patients approved for bariatric surgery at the Center for Obesity Netherlands (CON) are eligible to participate in this study.

# **Exclusion criteria**

Allergy for one (or more) of the ingredients of sonography gel.

# Study design

# Design

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

### Recruitment

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NL	
Recruitment status:	Recruitment stopped
Start date (anticipated):	18-03-2019
Enrollment:	50

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Type:

Actual

# **IPD** sharing statement

Plan to share IPD: Undecided

# **Ethics review**

Not applicable Application type:

Not applicable

# **Study registrations**

# Followed up by the following (possibly more current) registration

ID: 48158 Bron: ToetsingOnline Titel:

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

No registrations found.

### In other registers

Register	ID
NTR-new	NL7593
ССМО	NL69211.099.19
OMON	NL-OMON48158

# **Study results**