Continuity of Diaphragm Thickness in the Zone of apposition

No registrations found.

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

Summary

ID

NL-OMON19996

Source
NTR

Brief title
DiaThick

Health condition

Diaphragm thickness

Sponsors and support

Primary sponsor: None
Source(s) of monetary or material Support: None

Intervention

Outcome measures

Primary outcome

Continuity of diaphragm thickness in the mid-axillary line in craniotomy-caudal direction, expressed through the intra-class correlation coefficient and bland-altman plot.

Secondary outcome

-)Continuity of diaphragm thickness in the posterior axillary and mid-clavicular line in cranio-caudal direction, expressed through the intra-class correlation coefficient and bland-altman plot.

-)Average absolute diaphragm thickness in mm in each line of measurement (i.e. posterior- and mixaxillary line, midclavicular line)

Study description

Background summary

Diaphragm thickness is usually measured in the zone of apposition, generally between the 8th and 10th intercostal spaces on the midaxillary line. In clinical practice, external factors such as surgical dressings or mechanical ventilation can limit this view however, necessitating deviation in crania-caudal or ventro-dorsal directions. With this in mind, we set out to evaluate the continuity of diaphragm thickness in cranio-caudal direction on three ventro-dorsal lines.

Study objective

Diaphragm thickness is constant throughout the zone of apposition in craniotomy-caudal direction

Study design

Measurements will be performed using a Philips CX 50 machine. Measurements will be taken once the volunteer is instructed and has performed the various breathing patterns.

Intervention

Ultrasound measurements of the right and left hemi-diaphragm

Contacts

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Eligibility criteria

Inclusion criteria

Healthy volunteers >18 years able to follow respiratory commands

Exclusion criteria

Diaphragm paralysis or paresis in past medical history

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

NL

Recruitment status:	Recruiting
Start date (anticipated):	11-10-2021
Enrollment:	40
Type:	Anticipated

IPD sharing statement

Plan to share IPD: No

Plan description

Deidentified records can be shared upon reasonable request with other researchers for research purposes only

Ethics review

Positive opinion

Date:	14-10-2021
Application type:	First submission

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
NTR-new	NL9792
Other	METC VUmc : 2019.577

Study results