Lung ultrasound and computed tomography for monitoring SARS-CoV-2 in critical care departments

No registrations found.

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

Summary

ID

NL-OMON20929

Source
NTR

Brief title
TBA

Health condition

SARS-CoV-2

Sponsors and support

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

Intervention

Outcome measures

Primary outcome

Correlation between lung ultrasound aeration score and CT severity score

Secondary outcome

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P/F ratio
Dynamic compliance
Fluid Balance
Days of ventilation
Mortality
SOFA score

Study description

Background summary

The Severe Acute Respiratory Syndrome coronavirus 2 (SARS-CoV-2) place extreme stress on healthcare systems worldwide and critical care departments in particular. It is therefore imperative to maximize capacity by efficiently using resources. The current golden standard for monitoring SARS-CoV-2, computed tomography (CT), requires resource transportation that carries risk and increases stress on resource-constrained departments. Lung ultrasound (LUS) can adequately monitor disease severity in pneumonia and acute respiratory distress syndrome, as such we aim clarify whether it can adequately do so for SARS-CoV-2.

Study objective

Lung ultrasound significantly correlates to CT severity score (CTSS_

Study design

A patient can be included multiple times if multiple CT scans are performed

Intervention

None

Contacts

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Eligibility criteria

Inclusion criteria

All adults (>18 years) admitted to the ICU and diagnosed with SARS-CoV-2.

Exclusion criteria

If no 12-zone ultrasound was performed within 48 hours before or after a chest CT-scan

Study design

Design

Study type:	Observational non invasive
Intervention model:	Other
Allocation:	Non controlled trial
Masking:	Single blinded (masking used)
Control:	N/A , unknown

Recruitment

NL

Recruitment status:	Recruiting
Start date (anticipated):	27-03-2020
Enrollment:	80
Type:	Anticipated

IPD sharing statement

Plan to share IPD: Undecided

Plan description
If necessary can be shared

Ethics review

Positive opinion
Date: 01-05-2020
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	NL8584
Other	METC, Amsterdam UMC, location VUMC : 2020.011

Study results