

Association of BMI with COVID-19 incidence and severity

No registrations found.

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

Summary

ID

NL-OMON26179

Source

NTR

Brief title

TBA

Health condition

COVID-19

Sponsors and support

Primary sponsor: none

Source(s) of monetary or material Support: none

Intervention

Outcome measures

Primary outcome

Incidence of COVID-19 (association with BMI)

Secondary outcome

mortality, ICU admission, mechanical ventilation, complicatinos

Study description

Background summary

To assess the association of BMI with incidence and severity of COVID-19, the BMI in the COVID-19 study group (admitted to hospital for COVID-19) will be compared to an age and sex matched BMI distribution. This reference distribution will be taken from the general Dutch population (data from CBS). BMI of patients and BMI of the general population will be compared between the age groups, as defined by CBS. Further, the COVID-19 study group will be followed-up to determine the association of BMI with 30-day and 60-day in hospital mortality, risk of ICU admission, length of ICU stay, length of hospital stay, need for mechanical ventilation, duration of mechanical ventilation, and risk of complications. All analyses will be corrected for age and sex.

Study objective

High BMI is associated with worst prognosis after SARS-CoV2 infection

Study design

30-days, 60-days

Contacts

Public

LUMC

Rutger Middelburg

+31715264037

Scientific

LUMC

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Eligibility criteria

Inclusion criteria

Hospital admission for COVID-19 and tested positive for SARS-Coronavirus 2 by either PCR or

CT (CORADS score 5) in the LUMC.

Exclusion criteria

Patients who were suspected for COVID-19 but were tested negative by both 2 negative PCR tests or a CT CORADS score below 4. Patients who opted out for the study. Patients who were transferred to the LUMC for Extracorporeal Life Support.

Study design

Design

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

Recruitment

NL	
Recruitment status:	Pending
Start date (anticipated):	01-03-2020
Enrollment:	200
Type:	Anticipated

IPD sharing statement

Plan to share IPD: Undecided

Ethics review

Positive opinion	
Date:	18-05-2020
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 NL8627

Other Covid-19 wetenschapscommissie voor niet-WMO onderzoek van het LUMC : CoCo
2020-036

Study results