

# Inclusion criteria

- Signed informed consent
- Age **18-85 years**
- Admitted to the hospital because of **confirmed COVID-19 infection** (by positive SARS-CoV-2 PCR result)
- **Evidence of pulmonary involvement** on CT scan or X-ray of the chest
- **Symptom onset within previous 10 days OR shortness of breath within the previous 5 days**
- Expected to **remain inpatient for next three calendar** days from time of enrolment
- At least **one additional risk factor** for progression:
  - 1) Arterial hypertension
  - 2)  $\geq 50$  years
  - 3) Obesity (BMI  $\geq 30.0$  kg/m<sup>2</sup>)
  - 4) History of cardiovascular disease
  - 5) Chronic pulmonary disease
  - 6) Chronic renal disease
  - 7) C-reactive protein of  $>35$ mg/L
  - 8) Oxygen saturation at rest in ambient air of  $\leq 94\%$ .

# Exclusion criteria

- **Age >85 years**
- Contraindications to the class of drugs under study (C1 esterase inhibitor)
- **Treatment with** tocilizumab or another **IL-6R or IL-6 inhibitor** before enrolment
- History or suspicion of **allergy to rabbits**
- **Pregnancy or breast feeding**
- Active or planned treatment with any other complement inhibitor
- Liver cirrhosis (any Child-Pugh score)
- Currently admitted to an ICU or expected admission within the next 24 hours
- Currently receiving invasive or non-invasive ventilation
- Death deemed to be imminent and inevitable within the next 24 hours
- **Participation in another study with investigational drug within the 30 days preceding** - with the following exemptions:
  - 1) Participation in COVID-19 drug trial started at least 48hrs before admission (e.g. postexposure prophylaxis)
  - 2) Participation in COVID-19 drug trials during ICU admission
- Previous enrolment to current study
- Enrolment of the investigator, his/her family members, employees and other dependent persons

# Endpoints and study sites

**Primary endpoint:** Disease severity within 7 days after enrolment as assessed by WHO Ordinal Scale for Clinical Improvement.

Patient State	Description	Score
Outpatient	No limitation in activities	1
	Limitation in activities	2
Hospitalized Mild disease	No oxygen therapy	3
	Oxygen by mask or nasal prongs	4
Hospitalized Severe disease	Non-invasive ventilation or high-flow oxygen	5
	Intubation, mechanical ventilation +/- organ support	6
Death	Death	7

Adapted WHO Ordinal Scale (score 0 omitted and score 6 and 7 combined)

## Secondary endpoints:

- Time to clinical improvement within 14 days after enrolment.
- Proportion of participants alive and not having required invasive or non-invasive ventilation at 14 days after enrolment.
- Proportion of subjects with an acute lung injury ( $\text{PaO}_2/\text{FiO}_2$  ratio of  $\leq 300\text{mmHg}$ ) within 14 days after enrolment.

## Swiss study sites:



PD Dr. M. Osthoff  
Prof. Dr. P. Sendi  
Prof. Dr. M. Trendelenburg

Prof. Dr. L. Huber

PD Dr. W. Albrich

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## International study sites (Brazil/Mexico):



Dr. M. Bacci

Prof. A. Camacho-Ortiz

