# Evaluation of coronavirus in tears and conjunctival secretions

## of patients with SARS-CoV-2 infection

Xia J, et al. Journal of Medical Virology February 26, 2020 DOI: 10.1002/jmv.25725

## Objective

To assess the presence of novel coronavirus in tears and conjunctival secretions of

SARS - CoV - 2 infected patients.

#### **Definition:**

Severe COVID-19 pneumonia has to have any of the ffg criteria:

- 1. Respiratory distress (RR>30/minute),
- 2. Oxygen saturation  $\leq$ 93% or (PaO2)/oxygen concentration FiO2 $\leq$ 300mmHg in the resting state,
- 3. Respiratory failure requiring mechanical ventilation,
- 4. Shock

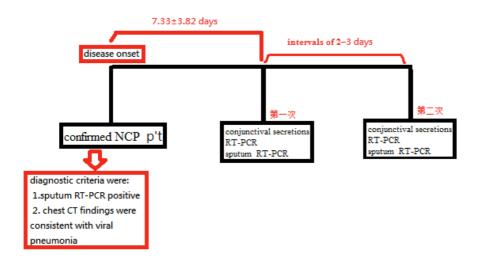
5. Other forms of organ failure requiring monitoring and treatment at the ICU

#### **Study population**

30 confirmed novel coronavirus pneumonia (NCP) patients from 2020/01/26 to 2020/02/09

## Methods

Tear and conjunctival secretions were collected by wiping the conjunctiva of the lower eyelid fornix twice every 2-3 days with disposable sampling swabs for PCR



## Results

- 1. There were 21 patients with common-type and 9 patients with severe-COVID-19 pneumonia.
- Two samples of tear and conjunctival secretions were obtained from the only one patient with conjunctivitis yielded positive RT PCR results. Samples from other patents were all negative

### Conclusion

We speculate that SARS-CoV-2 may be detected in the tears and conjunctival secretions in NCP patients with conjunctivitis. The virus was not detected in patients with no conjunctivitis.