

## Cytokine storm in COVID-19 infection

### 新冠病毒感染引發的細胞激素風暴

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Since 2019-12, cases with a new type of viral pneumonia were noted in China. A new coronavirus-severe acute respiratory syndrome coronavirus-2 (SARS-CoV-2) was identified to be a pathogen and the disease was named as coronavirus infectious disease-2019 (COVID-19). With the number of confirmed cases and deaths rapidly spreading, the COVID-19 pandemic is a crucial and global issue. Accumulating evidence disclosed that patients with severe SARS-CoV-2 infection may present with cytokine storm, also called cytokine releasing syndrome. It was like the pathogenesis of SARS and MERS with higher plasma levels of pro-inflammatory cytokines in patients with severe COVID-19. Pathological findings from patients died of severe SARS-CoV-2 infection related cytokine storm revealed ARDS with bilateral diffuse alveolar damage with cellular fibromyxoid exudates. Therefore, the treatment of cytokine storm has been proposed as a critical part of rescuing severe COVID-19. We will introduce the view of targeting the pathway in COVID-19 related cytokine storm.