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Systemic Arterio-Venous Thrombosis in COVID-19: A Pictorial Review

Arterio-Venous Thrombosis in COVID-19

Abstract

COVID-19 is caused by the novel coronavirus SARS-CoV-2. Systemic complications include cardiovascular, neurological, hepatic, renal and altered coagulation. Derangements in haemostasis with SARS-CoV 2 infection have been termed COVID-19 associated coagulopathy (CAC). CAC is postulated to be one of the significant causes for sudden deaths in this pandemic, with infection of endothelial cells and subsequent endotheliitis through angiotensin-converting enzyme-2 receptors playing a key role in the pathogenesis. In this pictorial review, we describe the imaging findings in a multitude of extrapulmonary arterial (coronary, cerebral, mesenteric, renal and peripheral

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Author: Peter G Gibson, Ling Qin, Ser Puah

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1 AhR and IDO1 signaling in pathogenesis of Covid-19. To trigger Covid-19, SARS-CoV-2 enters cells via angiotensin-converting enzyme 2 (ACE-2) by means of activating viral spike glycoproteins (SARS-2-S) by transmembrane protease serine 2 (TMPRSS2) to engage them with the enzyme expressed in the surfactant secreting alveolar cells of the lung (Letko, Marzi, & Munster, 2020; Li et al., 2003).

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Introduction. Coronavirus disease 2019 (**COVID-19**) is a rapidly spreading pandemic caused by severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2). 1 It is a multisystemic disease that has been associated with hypercoagulability and increased risk of thrombo-embolic complications. Micro- and macrovascular **thrombosis** including occlusion of pulmonary capillaries, limb ischaemia, and venous ...

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[COVID-19 acute respiratory distress syndrome \(ARDS ...](#)

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COVID-19 ARDS is a predictable serious complication of COVID-19 that requires early recognition and comprehensive management “This disease is still too strange to us, and there are too many doubts”, says Dr Ling Qin (LQ), after reviewing more than 400 patients with coronavirus disease 2019 (COVID-19) pneumonia in Wuhan Union Hospital, China.

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