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**Name of Journal:** *World Journal of Radiology*

**Manuscript NO:** 63535

**Manuscript Type:** MINIREVIEWS

**COVID-19 and venous thromboembolism: known and unknown for imaging decisions**

Patel L *et al.* Imaging decisions for VTE in COVID-19

Love Patel, Darshan Gandhi, Emily Westergard, Michael Ornes, Matthew Lillyblad, Nedaa Skeik

### Abstract

As we continue to fight against the current <sup>10</sup> coronavirus disease-2019 (COVID-19) pandemic, healthcare professionals across the globe are trying to answer questions surrounding how to best help patients with the up-to-date available science while awaiting the development of new therapies and mass vaccination. Since early in the



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Antithrombotic Therapy | COVID-19 Treatment Guidelines

<https://www.covid19treatmentguidelines.nih.gov/antithrombotic-therapy> ▾

Feb 11, 2021 · When **imaging** is not possible, patients with **COVID-19** who experience an incident **thromboembolic** event or who are highly suspected to have **thromboembolic disease** should be managed with therapeutic doses of anticoagulant therapy as per the standard of care for patients without **COVID-19** ...

COVID-19 Imaging: What We Know Now and What Remains ...

<https://pubs.rsna.org/doi/10.1148/radiol.2021204522>

Feb 09, 2021 · While the presence of characteristic COVID-19 **imaging** findings is helpful in diagnosis and risk stratification, it is noteworthy that both CXR and chest CT may lack lung abnormalities in the earliest stages of infection, with rates of normal CT as high as 56% in patients imaged within two days of symptom onset . Therefore, a normal CXR and CT do not reliably exclude disease.

**Author:** Jeffrey P. Kanne, Harrison Bai, Adam Be... **Publish Year:** 2021

Management of Patients with Confirmed 2019-nCoV | CDC 7 mins read

[https://www.cdc.gov/coronavirus/2019-ncov/hcp/...](https://www.cdc.gov/coronavirus/2019-ncov/hcp/) ▾

Feb 11, 2020 · Inpatient management includes supportive management of the most common complications of severe COVID-19: pneumonia, hypoxemic respiratory failure/ARDS, sepsis and septic shock, cardiomyopathy and arrhythmia, acute kidney injury, and complications from prolonged hospitalization, including secondary bacterial and fungal infections, **thromboembolism**, ...

Is POTS a Long-Haul Post-COVID-19 Symptom? - American ...

<https://www.acc.org/latest-in-cardiology/articles/...> ▾

Mar 10, 2021 · Months after a COVID-19 infection, patients may experience "long-haul" symptoms like rapid heart rate, dizziness upon standing and lightheadedness consistent with a diagnosis of postural orthostatic tachycardia syndrome (POTS), according to a clinical case report published March 10 in JACC: Case Reports.. In the case report, Madeleine Johansson, MD, PhD, et al., discuss three Swedish ...

Frontiers | Pituitary Disorders and COVID-19, Reimagining ...

<https://www.frontiersin.org/articles/10.3389/fendo.2021.656025/full> ▾

Pituitary Center, and Departments of Medicine (Endocrinology, Diabetes and Clinical Nutrition), and Neurological Surgery, Oregon Health & Science University, Portland, OR, United States It has been more than a year since the severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) "eruption ...

Feature | Thrombosis and COVID-19: FAQs For Current ...

<https://www.acc.org/latest-in-cardiology/articles/...> ▾

Apr 17, 2020 · Severe COVID-19 is associated with high D-dimer levels which appear to predict mortality. A relationship between elevated D-dimer levels and mortality, however, has been shown in previous cohorts of critically ill patients. Whether this is more significant in COVID-19 or more predictive of mortality in COVID-19 is currently **unknown**.

Superior ophthalmic vein thrombosis secondary to COVID-19 ...

<https://europepmc.org/article/PMC/PMC7927642> ▾

Superior ophthalmic vein **thrombosis** is a very rare condition, **known** to have a profound negative impact on vision and eye movement function and is usually associated with orbital infections, inflammation, tumors or carotid cavernous fistulae. There is an increased risk of arterial **and venous** ...

REFERENCES - Evidence-Based Clinical Decision Support at ...

<https://www.uptodate.com/contents/coronavirus...>

Patients hospitalized with **COVID-19** should receive pharmacologic prophylaxis for **venous thromboembolism** (algorithm 1). **COVID-19** has been associated with **thromboembolic** complications. This is discussed in detail elsewhere. (See "**Coronavirus disease 2019 (COVID-19): Hypercoagulability**".)

Description and Proposed Management of the Acute COVID-19 ...

<https://www.ahajournals.org/doi/10.1161/CIRCULATIONAHA.120.047349>

In 183 consecutive Chinese patients admitted with COVID-19, coagulopathy was associated with higher mortality, and 15 of 21 (71%) of nonsurviving patients met the criteria for disseminated intravascular coagulopathy. 40 Localized pulmonary arteriolar **thrombosis** was described in SARS, and pulmonary emboli have been reported in COVID-19. 41 Therefore, microvascular **thrombosis** in coronary vessels ...

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Feb 04, 2021 · Adult patients hospitalized for COVID-19 were enrolled and randomized to receive either therapeutic-dose anticoagulation (low molecular weight heparin or unfractionated heparin) or usual care...

## [COVID-19: Evaluation and management of adults following ...](#)

<https://www.uptodate.com/contents/covid-19...> ▾

Mar 03, 2021 · **Venous thromboembolism** prophylaxis — We typically place inpatients recovering from acute COVID-19 on **venous thromboembolism** prophylaxis until the acute illness fully resolves and/or th...

## [\[PDF\] Pulmonary Thromboembolism in COVID-19](#)

<https://pubs.rsna.org/doi/pdf/10.1148/radiol.2020204175>

monary embolism (PE) and lower extremity deep **venous thrombosis** (DVT) in patients with COVID-19 and evalu - ate the diagnostic accuracy of the D-dimer test in these patients. This systematic literature review...

## [COVID-19: What Do We Know About Hypercoagulation?](#)

<https://www.medscape.org/viewarticle/931857> ▾

One study by Klok and colleagues, with results published online April 10 in **Thrombosis Research**,