

## Role of Vascular Surgery and Angiology in the COVID-19 Pandemic

Anamika Pant\*

Department of Pharmacy, Noida Institute of Engineering and Technology, Greater Noida, India

\*Corresponding author: Anamika Pant, Noida Institute Of Engineering and Technology, Greater Noida, India, E-mail:  
[Pant\\_r@gmail.com](mailto:Pant_r@gmail.com)

Received Date: March 04, 2021, Accepted Date: March 11, 2021, Published Date: March 25, 2021

### ABSTRACT

According to World Health Organization information, the number of people infected with the latest coronavirus, also known as Sars-CoV-2, has now exceeded nine million worldwide. This new epidemic that emerged in the city of Wuhan, China, has become epidemiologically distinct from the other two viruses of the Coronavirus family already known to us and that have caused regional outbreaks in humans, thus not yet demonstrating the ability for rapid global distribution, which are the coronavirus responsible for Severe Acute Respiratory Syndrome (Sars-CoV) and the coronavirus responsible for Middle East Respiratory Syndrome (Mers-CoV).

**Keywords:** Coronavirus; COVID-19; Sars-Cov; Infection.

### BACKGROUND

As we live more and more with the presence of Sars-CoV-2, it has been shown that the infection determined by this new virus has the potential not only to cause a disease restricted to the respiratory system, but also to generate critical systemic dysfunction, such as for example, the installation of a prothrombotic state in critically ill hospitalized patients, which potentially can lead to the occurrence of venous or arterial thrombotic events in this category of patients [1-4].

From this perspective, together with the constant dissemination of new findings and the interest to better understand how Angiology and Vascular Surgery Services around the world are working in the context of the COVID-19 outbreak, our study target to gather online published content from several Health Centers that disclosed from protocols applied in vascular services in the current situation, to the role of angiologists and vascular surgeons in the clinical and surgical management of infected or not patients, with the purpose of guiding and informing this specialty during the context of the pandemic.

We hope, with this, that our work can collaborate and support other local professionals working in the area of Vascular and Angiology surgery, to constantly improve and update the care procedures and flowcharts that are being conducted in their routines during this new and unexpected situation which significantly impacted the resources and dynamics of hospital care. In addition, due to the late risk of thrombotic events that are being described in patients who were positive for COVID-19, we aim to stimulate and place at the heart of the discussion the thrombotic risk that this set of critically ill patients for the new coronavirus is submitted to, from the moment of your diagnosis to your departure home. For this, understanding in more depth the pathophysiology of this new disease, mainly due to the discovery and observation in patients of hematological changes, more precisely in the coagulation cascade, is extremely important. In addition, as there is still no safe protocol established for the treatment of such disorders, an important question is to understand when patients with Sars-CoV-2 should be treated or not with antithrombotics and if the clinical presentation of the disease can lead to this taking therapeutic decision [5].

For all these reasons, it is evident that, collaboration on a global scale among health professionals is necessary to face this Pandemic, since there are still more doubts than certainties in several aspects regarding this new and challenging disease.

### REFERENCES

1. WHO Coronavirus Disease (COVID-19) Dashboard. World Health Organization. 2020.

2. Khan S, Siddique R, Shereen MA, Ali A, Liu J et al. (2020) Emergence of a novel coronavirus, severe acute respiratory syndrome coronavirus 2: biology and therapeutic options. *J Clin Microbiol* 58: 187-200.
3. Rabaan AA, Al-Ahmed SH, Haque S, Sah R, Tiwari R, Malik YS et al. (2020) SARS-CoV-2, SARS-CoV, and MERS-COV: a comparative overview. *Infez Med* 28: 174-84.
4. Lai CC, Shih TP, Ko WC, Tang HJ, Hsueh PR (2020) Severe Acute Respiratory Syndrome Coronavirus 2 (SARS-CoV-2) and Coronavirus Disease-2019 (COVID-19): The epidemic and the challenges. *Int J of Antimicrob Agents* 55: 105924.
5. Violi F, Pastori D, Cangemi R, Pignatelli P, Loffredo L (2020) Hypercoagulation and antithrombotic treatment in coronavirus 2019: a new challenge. *Thrombosis and Haemostasis* 120: 949.