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***Empiric Therapeutic Anticoagulation and Mortality in Critically Ill Patients With Respiratory Failure From SARS-CoV-2: A Retrospective Cohort Study***  
November 2020 – *The Journal of Clinical Pharmacology* (JCP)

## ***Why is this article important to you?***

The pathophysiology of respiratory failure associated with severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) remains under investigation. One hypothesis is that progressive endothelial damage from the virus leads to microvascular thrombosis. It is uncertain if empiric therapeutic anticoagulation provides benefit over standard deep vein thrombosis (DVT) prophylaxis in critically ill patients with SARS-CoV-2. A retrospective cohort study was performed to evaluate adult patients admitted to the intensive care unit at three hospitals with polymerase chain reaction-confirmed SARS-CoV-2-associated respiratory failure requiring invasive mechanical ventilation. A Kaplan-Meier survival analysis was used to compare patients who were initiated on therapeutic anticoagulation prior to the time of intubation and those receiving standard DVT prophylaxis doses. Learners that complete this course will be able to understand the psychopathology of DVT in relation to SARS-CoV-2 and what treatment options physicians should rely on to improve patient outcomes.



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## **Joint Accreditation Statement**

In support of improving patient care, the American College of Clinical Pharmacology® (ACCP) is jointly accredited by the Accreditation Council for Continuing Medical Education (ACCME), the Accreditation Council for Pharmacy Education (ACPE) and the American Nurses Credentialing Center (ANCC), to provide continuing education for the healthcare team.

**UAN: JA4008220-0000-20-051-H01-P** – ACPE 1 Contact Hours

**Activity Type:** Knowledge-based **Format:** Home-study **Target Audience:** 'P'

## **ACCME Designation Statement**

The Accreditation Council for Continuing Medical Education designates this Journal CE activity for 1 *AMA PRA Category 1™* credit. Physicians should only claim credit commensurate with the extent of their participation in the activity.

## **Target Audience**

Interprofessional team of Physicians, Pharmacists, PhDs and Students.

## **Learning Objectives**

After completing this activity, the learner will be able to:

1. Discuss the complications observed when a patient has SAR-CoV-2 and has to receive DVT prophylaxis;
2. Determine when a patient with SARS-CoV-2 need DVT prophylaxis and when it is not necessary;
3. Explain the correlation in D-Dimer levels and complications for DVT and SARS-CoV-2;
4. Create an empiric therapy for patients needing DVT prophylaxis who also have SARS-CoV-2.

## **Requirements to Receive Credit**

In order to receive continuing education credit, the learner must register for the educational activity, study the provided journal article and complete the online learning Post-event Self-assessment, as well as the online course Evaluation and CME/CPE Certificate. Credits and CME/CPE Certificates must be claimed

within thirty (30) days of completing the article, Post-event Self-Assessment and Evaluation. Contact [CE@ACCP1.org](mailto:CE@ACCP1.org) with any questions.

#### **Disclosures:**

Article Selection: Joseph S. Bertino Jr, PharmD, FCP, FCCP, Editor-in-Chief, JCP and Owner, Bertino Consulting Inc. Nothing to disclose.

Planner: Alexander J. Sperry, BS, PharmD Student, School of Pharmacy, Medical Coll of Wisconsin. Nothing to disclose.

CE Reviewer: Steven J. Crosby, MA, BSP, RPh, FASCP, Assistant Dean, MCPHS Univ. Nothing to disclose.

#### **Schedule & Fees**

JCP monthly Journal CE articles are generally released on the 1<sup>st</sup> or 2<sup>nd</sup> Tuesday of each month. They are priced in packages of January to December for each year. Packages are available at no cost to ACCP Members and \$75/calendar year to Non-members. Once you register, you have access to all of the Journal CE articles for the calendar year.

#### **Acknowledgement of Financial Support**

No financial support was received for this educational activity.

#### **Home Study Initial Release and Expiration Dates**

**Date of Issuance:** 11/01/2020

**Expiration Date:** 12/31/2022

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#### **Helpful Tips**

Download the article and access the Self-assessment Post-test, Evaluation and Certificate [here](#).

Learn how to print your CME/CPE Certificate [here](#).

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