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## ***Antiretrovirals for Prophylaxis Against COVID-19: A Comprehensive Literature Review***

May 2021 – *The Journal of Clinical Pharmacology* (JCP)

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

Although people living with human immunodeficiency virus and other comorbidities are expected to experience more grievous consequences with corona virus disease 2019 (COVID-19), recent cohort studies did not indicate this. Antiretrovirals (ARVs) might have a prophylactic role in these patients. The purpose of this study was to review the most recently-published articles on the possible role of ARVs for pre- or postexposure prophylaxis against COVID-19. From June to October 2020, we searched scientific databases using specific key words to identify ongoing trials or articles published before October 2020 investigating any subgroups of ARVs for prophylaxis against COVID-19. Apart from molecular docking studies, *in vitro*, animal and human studies are very limited for evaluating the prophylactic role of ARVs against severe acute respiratory syndrome-corona virus 2 (SARS-CoV-2) infection. Learners that complete this activity will learn about the prophylactic role of subgroups of ARVs against SARS-CoV-2 infection.



### **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: JA4008220-0000-21-034-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 and PhDs.

### **Learning Objectives**

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

1. Articulate the possible role of ARVs in prophylaxis against COVID-19 from molecular docking studies, *in vitro*, *in vivo*, animal and human studies based upon a comprehensive literature review;
2. Explain that nucleotide/nucleoside reverse-transcriptase inhibitors (NRTI) also have shown binding affinity to main enzymes of SARS-CoV-2 in molecular, *in vitro* and animal studies;
3. Explain that currently there is no evidence to support the use of these ARVs for prophylaxis against COVID-19 based upon literature review and definitive results to be confirmed in ongoing randomized clinical trials.

### **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: Li Zhang, MD, PhD, Principal Scientist, Pharmacokinetics & Drug Metabolism, Regeneron Pharmaceuticals Inc. Employee: Regeneron Pharmaceuticals Inc.

CE Reviewer: Mirshad PV, PhD, Associate Professor, Pharmacology, MES Medical Coll. 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:** 05/01/2021

**Expiration Date:** 12/31/2023

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### **Helpful Tips**

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

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