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The Interplay Between the Immune System, the Renin-Angiotensin-Aldosterone System (RAAS) and RAAS Inhibitors May Modulate the Outcome of COVID-19: Systematic Review

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Why is this article important to you?
Since the discovery of severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2), substantial research has been undertaken to delineate the various effects of the virus which manifests in many ways all over the body. The association between the SARS-CoV-2 invasion mechanism and the renin-angiotensin-aldosterone system (RAAS) receptors has created many debates about the possible consequences of using RAAS-modulating drugs including angiotensin-converting enzyme inhibitors (ACEi) and angiotensin II receptor blockers (ARBs) during the pandemic. Many clinical studies were conducted to assess the outcome of coronavirus disease 2019 (COVID-19) in patients who use CEi/ARBs following the arguments claiming to discontinue these drugs as a precautionary measure. Learners that complete this activity will gain better insight into the interaction of CEi/ARBs with different body functions during the 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: JA4008220-0000-21-041-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. Discuss the binding mechanism of SARS-CoV-2 via a receptor-binding domain that has affinity to bind with the angiotensin-converting enzyme (ACE2);
2. Estimate the role of ACE inhibitors (ACEi) and ARBs in increasing the ACE2 expression;
3. Assess the risks of adverse health risks by withdrawing the RAAS blockers;
4. Interpret lowering of anti-inflammatory activity observed in COVID-19 patients who received ACEi/ ARBs treatment.

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 with any questions.

Disclosures:

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

Planner: Vatsalya Vatsalya, MD, Faculty, Univ of Louisville. Nothing to disclose.

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Home Study Initial Release and Expiration Dates
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Download the article and access the Self-assessment Post-test, Evaluation and Certificate here.

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