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## ***Endocrine Adverse Events Caused by Different Types and Different Doses of Immune Checkpoint Inhibitors in the Treatment of Solid Tumors: A Meta-Analysis and Systematic Review***

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

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

Immune checkpoint inhibitors (ICIs) are a novel class of antitumor drugs that exert an antitumor effect by inhibiting immune suppressor molecules and reactivating T cells to specifically kill tumor cells. Although ICIs have been demonstrated to have unprecedented clinical efficacy in the treatment of advanced cancers, they eradicate tumor cells by regulating the immune response. At the same time, the excessive activation of immune cells may also cause autoimmune disorders in the body, generally known as immune related adverse events. Learners that complete this educational event will be able to articulate the incidences and risks of endocrine-related adverse events in patients with advanced tumors treated with different types and different doses of ICIs.



### **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: JA4008220-0000-21-016-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. Assess the incidences of endocrine-related adverse events in patients with advanced tumors;
2. Assess the risks of endocrine-related adverse events in patients with advanced tumors;
3. Assess the risk of endocrine adverse events caused by different doses of ICIs;
4. Assess the risk of endocrine adverse events caused by different types of ICIs.

### **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: Mariam Ahmed, PhD, Clinical Pharmacology Reviewer, DCPI, US Food & Drug Administration. Nothing to disclose.

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:** 03/01/2021

**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](#).

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

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