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Risk of Thrombocytopenia with Platelet-Derived Growth Factor Receptor Kinase Inhibitors in Cancer Patients: A Systematic Review and Meta-Analysis of Phase 2/3 Randomized, Controlled Trials

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

Why is this article important to you?

A systematic review and meta-analysis to fully investigate the thrombocytopenia of platelet-derived growth factor receptor kinase inhibitors (PDGFR-TKIs) in cancer patients was performed. Databases were searched for randomized, controlled trials (RCTs) treated with PDGFR-TKIs until January 2021. The relevant RCTs in cancer patients treated with PDGFR-TKIs were retrieved and the systematic evaluation was conducted. Nineteen RCTs and 3,962 patients were included. The study suggests that PDGFR-TKIs significantly increased the risks of all-grade (risk ratio [RR], 5.72; 95%CI, 4.32-7.59; $p < .00001$; I² = 32%) and high-grade (RR, 5.65; 95%CI, 3.28-9.75; $p < .00001$; I² = 0%) thrombocytopenia in cancer patients. Learners that complete this educational activity will be able to learn about key information for deciding the strategy of medication for cancer patients.



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: JA4008220-0000-21-047-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. Interpret risk ratios for thrombocytopenia among study medications;
2. Identify relevant patient characteristics associated with thrombocytopenia risk;
3. Learn about PDGFR-TKIs increasing the risks of all-grade and high-grade thrombocytopenia in cancer patients;
4. Explain how meta-analysis of Phase 2/3 randomized controlled trials was used to systematically evaluate the risk of thrombocytopenia associated with PDGFR-TKIs compared with placebo in cancer patients.

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.

Planners: Sonia Pahwa, PhD, Clinical Pharmacology Reviewer, US Food & Drug Administration. Nothing to disclose.

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

Schedule & Fees

JCP monthly Journal CE articles are generally released on the 1st or 2nd 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.

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Home Study Initial Release and Expiration Dates

Date of Issuance: 11/01/2021

Expiration Date: 12/31/2024

Helpful Tips

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