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Direct Oral Anticoagulants: An Updated Systematic Review of Their Clinical Pharmacology and Clinical Effectiveness and Safety in Patients With Nonvalvular Atrial Fibrillation

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Why is this article important to you?
Direct oral anticoagulants have been an increasingly used class of drugs in the setting of nonvalvular atrial fibrillation, defying vitamin K antagonists' monopoly when it comes to anticoagulation due to its several limitations. Direct oral anticoagulants (DOACs) have entered the market as a noninferior and safer option in comparison with vitamin K antagonists, as their respective Phase 3 clinical trials proved. The aim of this article was to update and summarize data on their clinical pharmacology and to review real-world data to know their comparative effectiveness and safety. Learners who complete this activity will be able to gain knowledge on the advantages and disadvantages of anticoagulant therapy with vitamin K antagonists vs DOACs.

ACPE Accreditation Statement
The American College of Clinical Pharmacology® is accredited by the Accreditation Council for Pharmacy Education (ACPE) as a provider of continuing pharmacy education.
UAN: 0665-0000-23-022-H01-P– ACPE 1 Contact Hours
Activity Type: Knowledge-based **Format:** Home-study **Target Audience**: 'P'

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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. Recognize the limitations of the vitamin K antagonist for anticoagulation for non-valvular atrial fibrillation;
2. Describe the mechanism of activity of DOACs and contrast it with vitamin K antagonists;
3. Differentiate the contribution of CYP enzymes and Pgp transporters to the clinical pharmacology of DOACs.
4. Defend the better safety profile of DOACs, in comparison to vitamin K antagonists.

Requirements to Receive Credit
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, Editor-in-Chief, *The Journal of Clinical Pharmacology*, planner for this educational activity, has no relevant relationship(s) with ineligible companies to disclose.

Planners: Raman Venkataramanan, Professor, PhD, Univ of Pittsburgh School of Pharmacy planner for this educational activity, has no relevant relationship(s) with ineligible companies to disclose.

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Home Study Initial Release and Expiration Dates
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Expiration Date: 04/01/2026

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