

Primary care medication: Safety and optimization strategies.

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Introduction

This systematic review and meta-analysis examines the effectiveness of pharmacist-led medication reviews in primary care settings. It highlights that these interventions significantly reduce medication-related problems, improve patient knowledge, and enhance clinical outcomes for individuals managing complex medication regimens. The findings underscore the valuable role pharmacists play in optimizing drug therapy and patient safety within the primary care team [1].

This systematic review and meta-analysis evaluates the impact of antimicrobial stewardship interventions in primary care. It reveals that such programs effectively reduce inappropriate antibiotic prescribing, contributing to efforts against antimicrobial resistance. The study emphasizes the need for tailored strategies to promote judicious antibiotic use in everyday clinical practice [2].

This qualitative study explores general practitioners' perspectives on optimizing medication use for older adults with polypharmacy in primary care. It identifies challenges and facilitators to rational prescribing and deprescribing, highlighting the need for better support, resources, and shared decision-making tools to improve medication safety and efficacy in this vulnerable population [3].

This systematic review investigates various deprescribing interventions implemented in primary care and their reported outcomes. It synthesizes evidence on strategies to reduce inappropriate medications, such as educational programs, pharmacist-led reviews, and computerized decision support. The review highlights improvements in medication safety and reductions in drug burden, advocating for integrating deprescribing into routine primary care [4].

This scoping review explores the impact of digital health interventions on medication management in primary care. It identifies diverse digital tools, including mobile apps, telehealth platforms, and electronic prescribing systems, showing their potential to enhance medication adherence, improve patient education, and streamline communication between patients and providers. The review underscores the growing role of technology in optimizing medication safety and effectiveness [5].

This systematic review and meta-analysis assesses the impact of pharmacists' interventions on clinical outcomes for patients with chronic diseases in primary care. It demonstrates that pharmacist involvement leads to significant improvements in disease control (e.g., blood pressure, HbA1c), medication adherence, and patient quality of life. The findings advocate for greater integration of pharmacists in chronic disease management teams [6].

This systematic review identifies effective interventions for improving medication safety in primary care settings. It categorizes interventions such as educational programs, electronic prescribing systems, medication review services, and multidisciplinary team approaches. The review emphasizes the importance of a multifaceted approach to reduce medication errors and enhance patient safety in complex primary care environments [7].

This scoping review explores strategies for implementing pharmacogenomics (PGx) in primary care and their associated outcomes. It identifies key considerations such as physician education, clinical decision support, and patient engagement. The review suggests that integrating PGx into primary care has the potential to personalize medication therapy, reduce adverse drug reactions, and improve treatment efficacy, although practical implementation challenges remain [8].

This systematic review evaluates interventions aimed at reducing opioid prescribing in primary care settings. It identifies effective strategies, including educational interventions for prescribers, clinical decision support tools, and multi-component programs involving pharmacists. The review highlights the importance of tailored interventions to combat the opioid crisis and promote safer pain management practices in primary care [9].

This systematic review examines interventions designed to improve safe and rational prescribing in primary care. It highlights various educational, organizational, and regulatory approaches targeting healthcare professionals to enhance their prescribing habits. The review underscores the need for continuous professional development and systemic support to ensure optimal medication use and patient outcomes in the complex primary care environment [10].

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Received: 07-Jul-2025, Manuscript No. aapcgp-210; Editor assigned: 09-Jul-2025, Pre QC No. aapcgp-210 (PQ); Reviewed: 29-Jul-2025, QC No. aapcgp-210; Revised: 07-Aug-2025, Manuscript No. aapcgp-210 (R); Published: 18-Aug-2025, DOI: 10.35841/aapcgp-8.3.210

Conclusion

Research on medication management in primary care highlights multifaceted approaches to enhance patient safety and optimize drug therapy. Pharmacist-led interventions are pivotal, significantly reducing medication-related problems and improving outcomes for chronic disease patients through enhanced adherence and disease control [1, 6]. Efforts to optimize prescribing also include addressing challenges in medication use for older adults with polypharmacy, emphasizing the need for better support and shared decision-making tools [3]. Deprescribing strategies, incorporating educational programs and pharmacist reviews, effectively reduce inappropriate medications and drug burden [4]. Targeted interventions are crucial for specific issues like antimicrobial resistance, with stewardship programs successfully reducing inappropriate antibiotic prescribing [2], and for combating the opioid crisis through prescriber education and clinical decision support [9]. Improving overall medication safety involves a blend of educational initiatives, electronic prescribing systems, and multidisciplinary team efforts [7]. Furthermore, technological advancements, such as digital health interventions, streamline medication adherence and patient education [5], while emerging fields like pharmacogenomics offer potential for personalized therapy despite implementation challenges [8]. Ultimately, ensuring safe and rational prescribing in primary care demands continuous professional development and systemic support for healthcare professionals [10].

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Citation: Kumar R. Primary care medication: Safety and optimization strategies. *aapcgp*. 2025;08(03):210.