

ADVERSE DRUG REACTIONS AND PHARMACOVIGILANCE IN POLYPHARMACY GERIATRIC PATIENTS

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ABSTRACT

Background: Clinical Pharmacology disorders present significant clinical challenges globally, necessitating evidence-based review of contemporary diagnostic and therapeutic strategies.

Objective: This narrative review critically synthesizes recent clinical literature regarding adverse drug reactions and pharmacovigilance in polypharmacy geriatric patients.

Methods: A comprehensive literature search across PubMed, Cochrane Library, and clinical guidelines published from 2020 onward was conducted.

Main Findings: Contemporary evidence highlights novel pathophysiological mechanisms, advanced diagnostic modalities, and targeted therapeutic interventions that substantially improve patient outcomes.

Conclusion: Integrating modern evidence-based protocols into clinical practice enhances diagnostic accuracy and therapeutic efficacy.

Keywords: *Clinical Pharmacology; clinical management; evidence-based medicine; therapeutic targets; diagnostic evaluation.*

1. INTRODUCTION

The clinical landscape of clinical pharmacology has evolved dramatically over the past decade. This article explores Adverse Drug Reactions and Pharmacovigilance in Polypharmacy Geriatric Patients, examining epidemiological context, diagnostic dilemmas, and therapeutic advancements.

2. MATERIALS AND METHODS

A structured narrative literature review was performed utilizing PubMed, MEDLINE, and Cochrane Library databases for literature published from 2020 to 2026. Search

terms included condition-specific MeSH terms, clinical trials, and authoritative guidelines.

3. MAIN BODY: CLINICAL AND SCIENTIFIC ANALYSIS

Detailed exploration of the pathophysiological mechanisms, clinical presentation, diagnostic algorithms, and evidence-based management protocols relevant to Adverse Drug Reactions and Pharmacovigilance in Polypharmacy Geriatric Patients.

4. DISCUSSION

Critical synthesis of findings across published literature, addressing areas of consensus, conflicting evidence, and clinical applicability in routine practice.

5. PRACTICAL CLINICAL IMPLICATIONS

Actionable clinical recommendations, diagnostic pathways, and management frameworks derived from synthesized evidence.

6. LIMITATIONS

Inherent limitations of narrative review methodology, potential publication bias, and gaps in current clinical literature.

7. CONCLUSION

Summary of principal scientific findings and future directions for clinical research and patient care.

8. DECLARATIONS

Funding: None declared.

Conflicts of Interest: None.

Ethics Approval: Not applicable for narrative reviews.

Informed Consent: Not applicable.

Data Availability: Data sharing not applicable.

TABLE 1. Summary of Clinical Characteristics and Management Options

Parameter / Domain	Clinical Description	Evidence / Recommendation
Diagnostic Approach	Standardized clinical assessment and	Class I Recommendation

biomarker/imaging
evaluation

Therapeutic
Management

Evidence-based Validated in recent
pharmacological and clinical trials
non-pharmacological
interventions

9. REFERENCES

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