

## Assessing the Impact of Pharmacist-Led Medication Therapy Management on Treatment Adherence and Clinical Outcomes in Cancer Patients: A Prospective Intervention Study

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**Abstract :** Cancer patients often face complex medication regimens, leading to challenges in treatment adherence and clinical outcomes. Pharmacist-led medication therapy management (MTM) has emerged as a potential solution to optimize medication use and improve patient outcomes in oncology settings. In this prospective intervention study, we aimed to evaluate the impact of pharmacist-led MTM on treatment adherence and clinical outcomes among cancer patients. Participants were randomized to receive either pharmacist-led MTM or standard care, with assessments conducted at baseline and follow-up visits. Pharmacist interventions included medication reconciliation, adherence counseling, and personalized care plans. Our findings reveal that pharmacist-led MTM significantly improved medication adherence rates and clinical outcomes compared to standard care. Patients receiving pharmacist interventions reported higher satisfaction levels and perceived value in pharmacist involvement in their cancer care. These results underscore the critical role of pharmacists in optimizing medication therapy and enhancing patient-centered care in oncology settings. Integration of pharmacist-led MTM into routine cancer care pathways holds promise for improving treatment outcomes and quality of life for cancer patients.

**Keywords :** cancer, medications adherence, medication therapy management, pharmacist

**Conference Title :** ICPP 2024 : International Conference on Pharmacy and Pharmacology

**Conference Location :** Sydney, Australia

**Conference Dates :** August 29-30, 2024