

4CPS-074 OPTIMISING MEDICATION SAFETY: THE ROLE OF PHARMACIST-LED INTERVENTIONS IN REDUCING DRUG-RELATED PROBLEMS IN GERIATRIC VASCULAR SURGERY PATIENTS

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WHAT?

Peripheral artery disease (PAD) is prevalent among elderly patients, particularly those with hypertension or diabetes mellitus. Polypharmacy is common in this population, increasing the risk of drug-related problems (DRPs) and treatment failure, often due to a limited understanding of pharmacotherapy.

WHY?

This study, a part of PHAROS trial, examines whether pharmacist-led interventions reduce DRPs in geriatric patients with PAD undergoing vascular surgery.

HOW?

geriatric patients
(≥ 65 years)
≥ 3 medicines
PAD

admission

medication
reconciliation,
medication review,
recommendations to
physicians by
pharmacist

discharge

medication
reconciliation,
medication review,
recommendations to
physicians,
patient education by
pharmacist

WHAT was achieved?

- 1. Significant DRPs reduction:** DRPs decreased from 2.26 to 1.51 per patient ($p < 0.001^*$).
- 2. Key DRPs issues:** Untreated symptoms, inappropriate medications.
- 3. ATC group most frequently associated with DRPs:** Cardiovascular drugs.
- 4. Physician acceptance:** 57.9% of pharmacist recommendations implemented.
- 5. Patient understanding:** Only 50% had good understanding of their pharmacotherapy at admission.
- 6. Impact:** Pharmacists improved medication management, enhancing safety and treatment outcomes.

*Wilcoxon signed-rank test

WHAT is next?

- Establish best practices for integrating pharmacists into care teams.
- Conduct prospective, randomized controlled trial with a larger sample size and post-discharge follow-up for long-term outcomes.

REFERENCES

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PHAROS trial: ClinicalTrials.gov
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