

Pharmacist's best possible medication history collection as a pre-admission clinical pharmacy service for selected surgery patients

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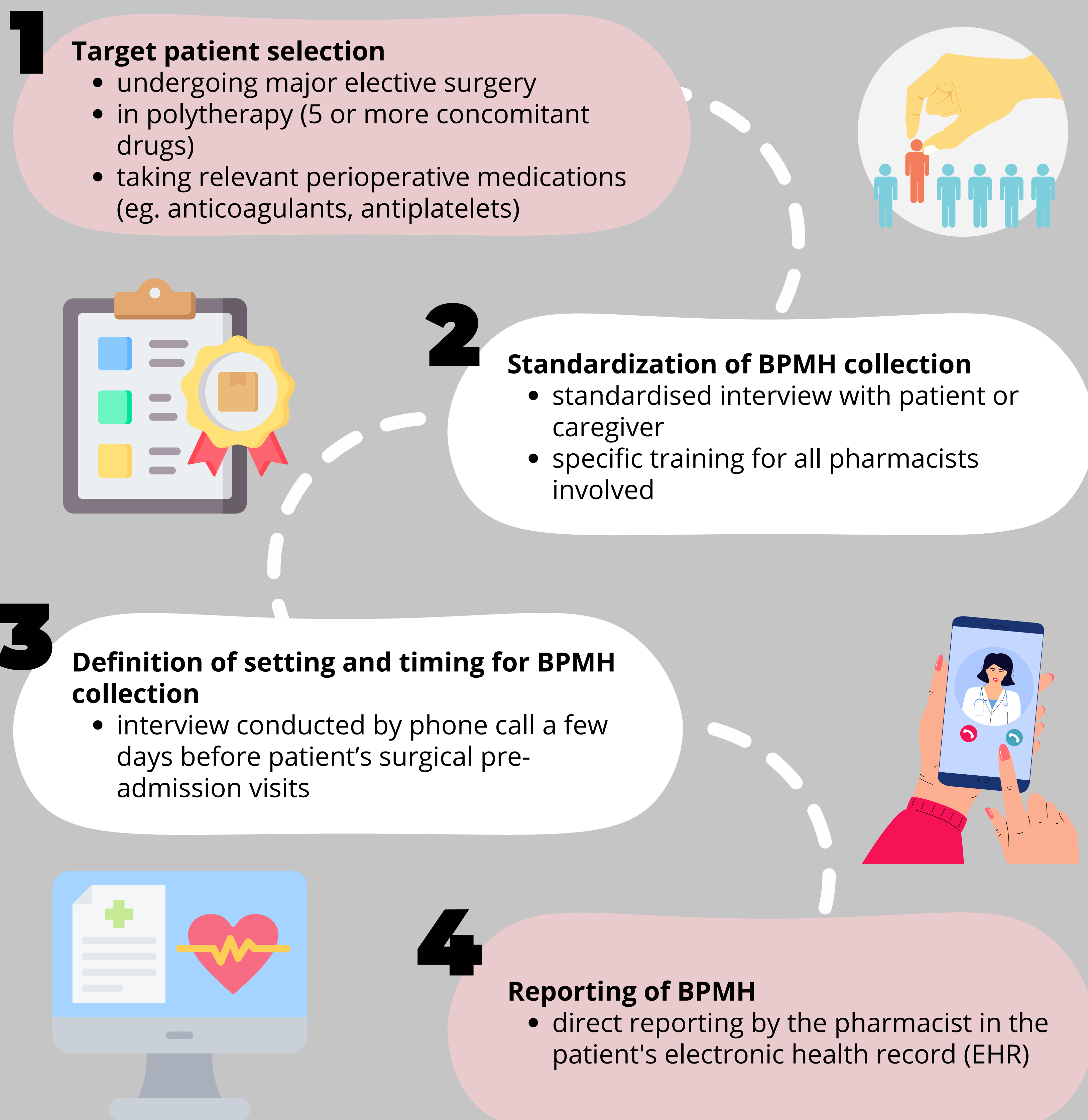
Why was it done?

In the surgery setting, studies have shown that pre-admission medication histories are more accurate when collected by pharmacists compared to other usual standards of care [1]. At Padua University Hospital, promising results were obtained performing an observational study in which pharmacist-led BPMHs were collected for patients admitted to the pre-admission outpatient clinic of a General Surgery Department [2]; a pre-admission clinical pharmacy service, however, had yet to be implemented and officially recognized

What was done?

A pre-admission clinical pharmacy service for best possible medication history (BPMH) collection was developed and implemented for selected surgery patients.

The following 4 steps were considered for service implementation:



What has been achieved?

In January 2023 the pre-admission clinical pharmacy service was implemented for 3 main surgery departments

During 2023, 772 patients undergoing major elective surgery were interviewed and a total of 791 pre-admission BPMHs were collected

Patients' median age was 72 years old (IQR: 65, 80) and median number of concomitant medications was 7 (IQR: 4, 10)

230 patients (29.08%) underwent general surgery, 478 (60.43%) underwent urologic surgery, 77 patients (9.73%) underwent orthopedic surgery and 6 (0.76%) underwent another type of major surgery

All BPMHs were inserted by the pharmacist in the patient's EHR

What next?

To offer a complete patient's pre-admission pharmaceutical assessment, also conducting, in addition to BPMH collection: pre-admission medication reconciliation, drug discontinuation, bridging, replacement and deprescribing

References:

1. Nguyen AD et al. Improved Medication Management With Introduction of a Perioperative and Prescribing Pharmacist Service. *J Pharm Pract.* 2020 Jun;33(3):299-305. doi: 10.1177/0897190018804961. Epub 2018 Oct 8. PMID: 30296875.
2. Mengato D et al. Best Possible Medication History Collection by Clinical Pharmacist in a Preoperative Setting: An Observational Prospective Study. *Pharmacy (Basel).* 2023 Sep 8;11(5):142. doi: 10.3390/pharmacy11050142. PMID: 37736914; PMCID: PMC10514880.
3. Xie J et al. Surgical Pharmacy for Optimizing Medication Therapy Management Services within Enhanced Recovery after Surgery (ERAS®) Programs. *J Clin Med.* 2023 Jan 12;12(2):631. doi: 10.3390/jcm12020631. PMID: 36675560; PMCID: PMC9861533.

