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# 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:

### Target patient selection

- undergoing major elective surgery
- in polytherapy (5 or more concomitant drugs)
- taking relevant perioperative medications (eg. anticoagulants, antiplatelets)



### Standardization of BPMH collection

- standardised interview with patient or caregiver
- specific training for all pharmacists involved

### 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)



# Definition of setting and timing for BPMH collection

 interview conducted by phone call a few days before patient's surgical preadmission visits



• direct reporting by the pharmacist in the patient's electronic health record (EHR)

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:**

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