

Drug related problems and interventions of pharmacists on prescribed medicines in Belgium



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Aim of study

- 1/ To study the frequency and nature of drug related problems (DRP) detected for prescribed medicines.
- 2/ To investigate the nature and frequency of interventions by pharmacists.
- 3/ To study whether there is a difference between DRP detection at the moment of dispensing and in a quiet setting, with possibilities to discuss with other team members or consult other information's sources.

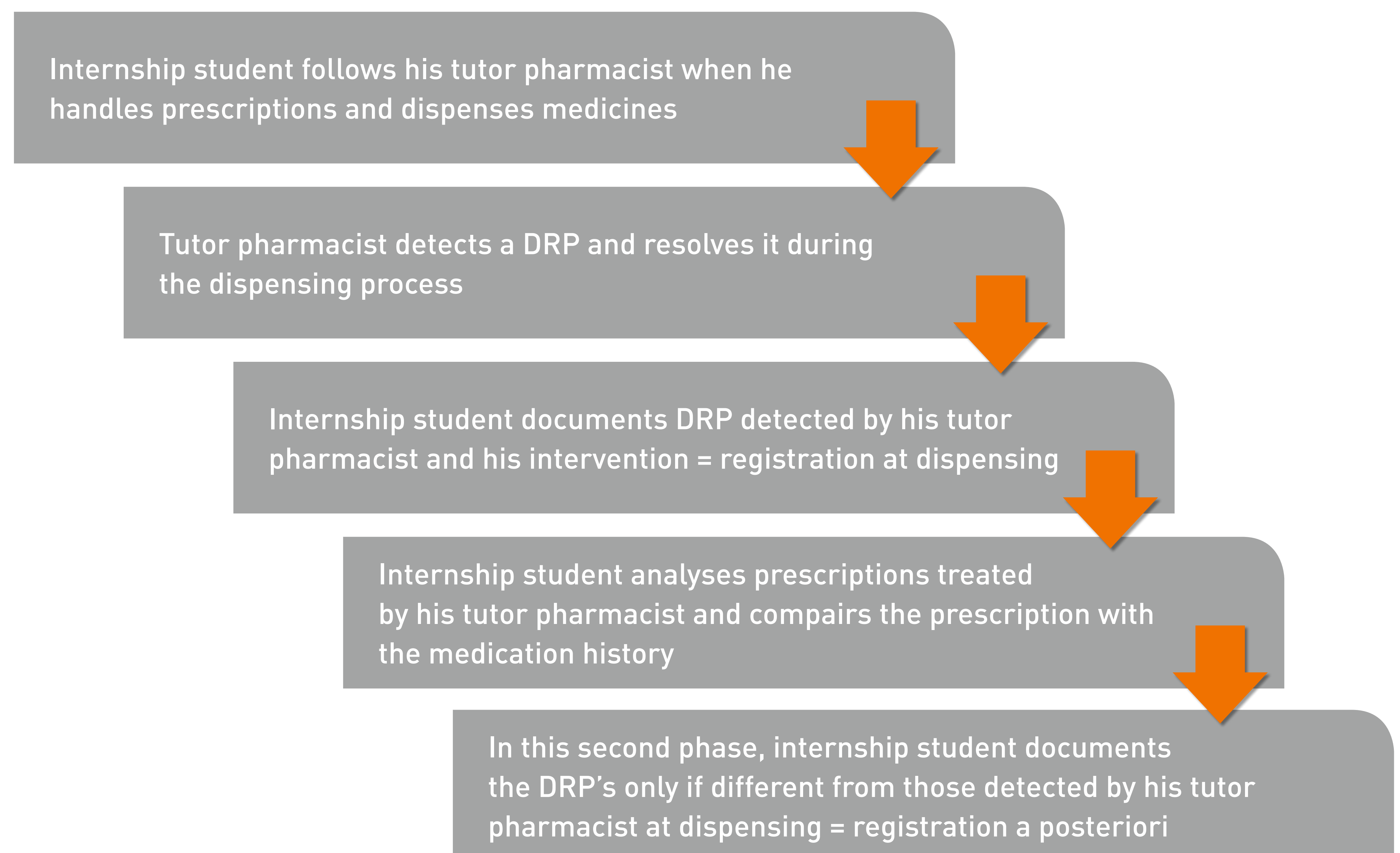
Methods

- Development of a DRP registration tool based on a modified PCNE classification system;
- Evaluation of the web application in a pilot study;
- Classification of DRP's and intervention by tutor pharmacists and their internship students;
- Duration of the study: 5 full or 10 half days.

Setting

Community pharmacy.

Methodology



Results

Belgian pharmacists participate in the study: 280 tutor pharmacists - internship students conducted the study in November/December 2012 and 250 couples will do so in February/March 2013.

| Total number of prescriptions | Number |
|--|-------------|
| Prescriptions treated by tutor pharmacists | 29.623 |
| Prescriptions with minimum 1 DRP | 3.951 (13%) |

| Drug related problems | Number |
|--------------------------------|-------------|
| Registered DRP's | 6.091 |
| DRP's detected when dispensing | 5.502 (90%) |
| DPR's detected a posteriori | 589 (10%) |

| Prescription type | Number |
|------------------------------|-------------|
| Newly prescribed medicine(s) | 2.984 (49%) |
| Repeat prescriptions | 2.998 (49%) |
| Compounded drugs | 109 (2%) |

Data available on January 11th, 2013

Drug related problems - Details of a registration of a DRP

Preliminary conclusions

DRP's occur with 13% of prescribed medicines. The majority (90%) is detected at the moment of dispensing. DRP's were evenly detected for newly prescribed medicines as for repeat prescriptions. This study is ongoing. In a further report, we will present more detailed analyses such as nature of DRP's and more common pharmacist's interventions.