

# DEVELOPMENT OF A DATABASE TO SHARE INFORMATION ABOUT HOSPITAL DRUG FORMULARIES

MIKALA VASEHUS HOLCK, MSC PHARM AND MAIBRITT KANTSØ, MSC PHARM  
REGION ZEALAND HOSPITAL PHARMACY, DENMARK

## Objective

To develop a regional database that:

- compiles information and provides an overview of hospital drug formularies
- shares knowledge easily
- ensures consistent communication

## Background

To ensure implementation of rational pharmacotherapy, The Regional Drug and Therapeutics Committee in Region Zealand develops hospital drug formularies. The Hospital Pharmacy is responsible for implementing the hospital drug formularies at the hospital wards.

The challenge is to obtain an overview of hospital drug formularies and ensure consistent communication since the Hospital Pharmacy is based at 6 locations.

## Conclusion

A shared regional database was developed.

The database has shown to be an efficient tool that aids and qualifies the communication between pharmacy and the wards. On average the database is used 209 times a day and has eased the daily work.

## Method

Three existing local databases were consolidated into one database and subsequently divided into ATC-codes.

The consolidated database was validated and qualified by specialist groups comprised of physicians and clinical pharmacists, and evaluated retrospectively on number of entries per day by pharmacists and pharmaconomists respectively.

ATC kode	Generisk navn	Disp.form	R.	Begrundelse	OPUS Medicin personnote	OK til fortsat behandling	Ok til nystartet behandling	Ok til standard-sortiment
ATC code	Generic name	Pharmaceutical form	R.	Argumentation	Analogue substitution	Hospital Drug formularies		
Co7AA05	Propranolol	tabl. og depottabl.	(Nej)	Ved hypertension, angina pectoris og efter AMI omordineres til rekommanderet betablokker. Se personnote Kan bestilles til migræne, benign essentiel tremor, oesophagus varicer og tyrotoksikose	Propranolol tablet foreslås omordineret af læge til METOPROLOLSUCCINAT "HEXAL" depottablet ifølge Lægemedelkomiteen (andet indholdsstof, samme virkning) OBS! Dosis  Propranolol depottablet foreslås omordineret af læge til METOPROLOLSUCCINAT "HEXAL" depottablet ifølge Lægemedelkomiteen (andet indholdsstof, samme virkning) OBS! Dosis	Ja (se begrundelse)	Ja (se begrundelse)	Ja (se begrundelse)
Co7AA07	Sotalol	Tabl.	(Nej)	Der er ikke belæg for generel anvendelse af sotalol. Anvendes til arytmier og kan omordineres til metoprolol eller bisoprolol. Skal kunne bestilles af kardiologiske afd.	Sotalol tablet foreslås omordineret af læge til METOPROLOLSUCCINAT "HEXAL" depottablet ifølge Lægemedelkomiteen (andet indholdsstof, samme virkning) OBS! Dosis	Ja (kardiologisk afd.)	Ja (kardiologisk afd.)	Nej

If indication is hypertension, angina or AMI, change drug to recommended beta-blocker. OK for migraine, tremor or esophageal varice indications.

A change of propranolol tablet to metoprolol extended-release tablet is recommended by The Regional Drug and Therapeutics Committee

Fig: Sample of the database which consists of 20 spreadsheets in one Excel folder

## Results and Discussion

One database was successfully established that is used by all clinical pharmacists and pharmaconomists in Region Zealand.

The database contains information about the specific drug as generic name, pharmaceutical form and hospital drug formularies including arguments for use in communication with the wards.

### The database:

- provides easy sharing of knowledge
- creates an overview of hospital drug formularies
- ensures consistent and qualified answers to questions from the wards
- is dynamic, simple to use and easy to update

On average, the database was used 198 times a day by 35 pharmaconomists and 11 times a day by 12 clinical pharmacists. The pharmaconomists consult the database independently, which reduces the numbers of calls to clinical pharmacists.