

DEVELOPMENT OF A REFERENTIAL DRUG DATABASE FOR MULTIPLE

SITE USE IN COMPUTERIZED PRESCRIPTION A. Pouly¹, S. Dartevelle², Ph. Theytaz¹, A. Pannatier²



1) Fédération des Hôpitaux Vaudois, Prilly, Switzerland, 2) Service de Pharmacie, CHUV, Lausanne, Switzerland

BACKGROUND

Computerized physician order entry (CPOE) systems are seen by many as the best way to improve the quality and safety of medication prescriptions. The deployment of a CPOE system (Predimed) was carried out by the Pharmacy Department of the Lausanne University Hospital (CHUV) since early 2003. The need for all care units using Predimed to base prescriptions on identical drug data led in 2005 to the development of a referential drug database (REFMED) for use by pharmacists and medical staff.

OBJECTIVE

In 2004, The Federation of Hospitals of Canton Vaud (FHV), which brings 12 regional hospitals and 3 central pharmacies together, decided to implement Predimed. Each regional pharmacy was using its own drug database because of some specificities such as drug formulary, local formulation, alternative treatments... A unique multiple-pharmacy version of REFMED integrating the common and pharmacy-specific data became necessary to avoid multiple updating of the different CPOE databases.

METHOD

- The project was conducted in 3 stages:
- Discrimination between common and pharmacy-specific datasets
- Data configuration of all common datasets by CHUV pharmacists,
- and of the pharmacy-specific datasets by regional pharmacists
- Updates, tests and data-export into Predimed databases

RESULTS & DISCUSSION

•All common datasets including drug characteristics, prescription units, route of administration (Fig. 1) and pharmacy-specific datasets including drug formulary, local formulations, therapeutic equivalents, specific routes of administration (Fig. 2) were formatted and are being updated by the CHUV and regional pharmacists, respectively.

•Since July 2007, all Predimed databases can be updated independently and daily from REFMED using a secured access to the unique referential database (Fig. 3).



Informations médicament

Médicaments de la liste

Tableau de bord

Bienvenue dans l'application REFMED

CONCLUSION

This project has reached its main objective to have a centrally updated medication referential serving all pharmacies and hospitals using the CPOE system Predimed. Moreover, the development of this unique referential allowed all pharmacies to provide their drug formulary online and other drug informations for the whole pharmacy, medical and nurse staff (Fig. 4).

Fichier d'administration des médicaments injectables



Figure 4: Front Page of the online application for the whole hospital staff

Augmentin - fioline sèo	che - 2200 mg
Infos générales	
Nom commercial :	Augmentin
Complément au nom :	
Forme galénique :	* fioline sèche
Dosage :	2200 mg
Code ATC :	J01CR02
	Amoxiciline et inhibiteur d'Enzyme
Unité de prescription principale :	mg
Unités de prescription secondaires :	g (1000) 🦻
Unité de quantité dans les conditionnements :	mg
FAMI :	\checkmark
Remarque :	
Disponible à la prescription :	CHUV PHEL PNVB PIC VICHV
Statut :	validé
Source :	Galdat

Figure 1: Common data validation screen

Augmentin - fioline sèch	ı e	- 2	220	0	m g	J
Infos multi-établissements						
	CHUV	PHEL	PNVB	PIC	ICHV	
Liste :			V		V	
Fabrication locale :						
Médicament réservé / Ordonnance nominale :						
Etude dinique :						

Figure 2: Pharmacy-specific datasets registration screen



Figure 3: Steps for validation and updates of drug informations in the referential and CPOE databases