

# COMPUTERIZED MEDICATION RECONCILIATION : OVERVIEW OF PHARMACEUTICAL SOFTWARE USED AND SUPPORT FOR DEVELOPMENT OF INTEGRATED MODULES



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## BACKGROUND

In France, **Clinical Pharmacy activities can be realized manually or by using different systems** such as Electronic Medical Record (EMR), Computerized Provider Order Entry (CPOE) systems, Pharmacy Information Systems (PIS). In 2015, a survey identified **unsuitable computerized systems** as a barrier for **implementation of medication reconciliation (MR)** in France. In the absence of appropriate hospital information systems (HIS), MR is a time consuming process and a possible source of error.

## OBJECTIVE

To assess the current HIS used in a French region including the integration of medication reconciliation into the software and to **define courses of action to assist this integration.**

## DESIGN

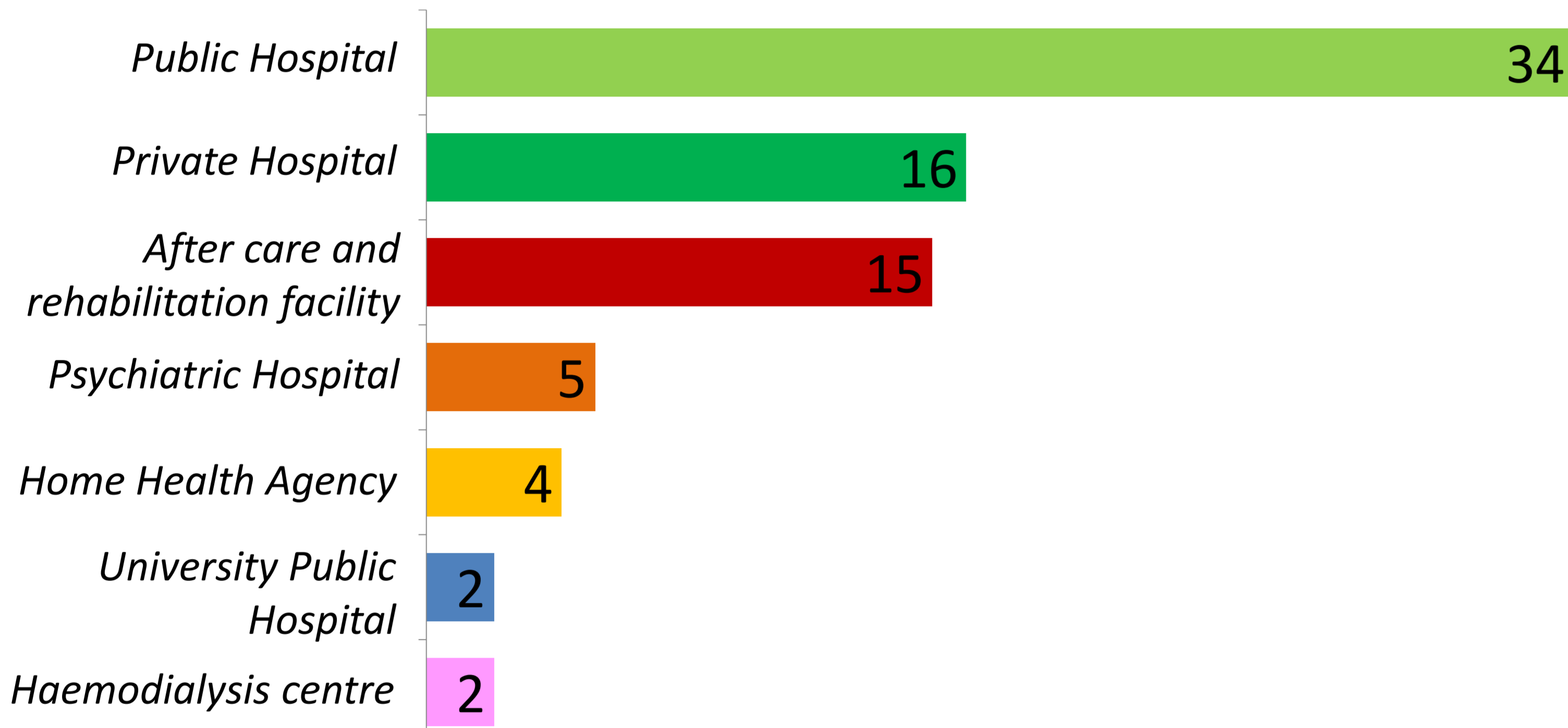
Online survey addressed to head pharmacists of the 134 health facilities in the region including questions on:

- **the software** used by the health facility
- the development of medication reconciliation
- **traceability** of medication reconciliation
- formulation of **operational requirements** to the software's editors
- availability of a **module integrating medication reconciliation** provided by the software

## RESULTS

### STUDY PARTICIPANTS

**78 pharmacists** responded to the survey



### SOFTWARE USED

**37 Different software** used in the region

Most commonly used :

- EMR : Osiris® (19%), Crossway® (14%), Emed® (12%)
- PIS : Pharma® (21%), Osiris® (15%), Emed® (8%)

Based on information declared by pharmacists:

Contains a module for computerized MR	Developing a module for computerized MR	No development scheduled	No answer from the editor
Pharma®*	Medial® Millenium® Pharma® Winpharm®	Gefi® Sanohad® Sigems®	Emed® Génois® Osiris®

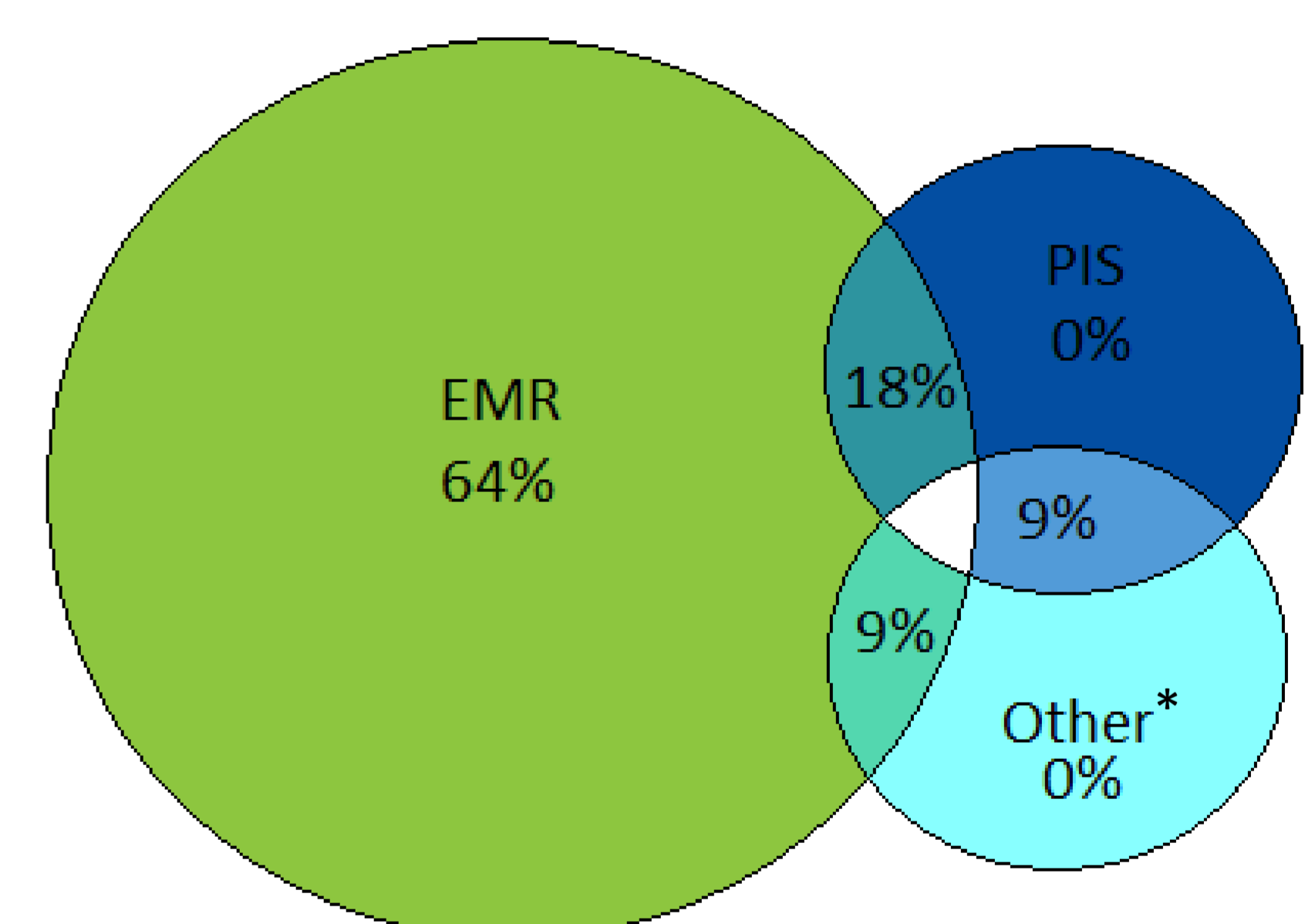
\*Pharma contains a module for admission MR and is developing one for discharge MR

### MEDICATION RECONCILIATION : TRACEABILITY

- 35% of pharmacists plan to develop MR
- 26% of pharmacists already carry out MR

45% Paper traceability (89% would choose EMR rather than PIS to register computerized MR)

55% Computerized traceability



Systems used for computerized MR traceability

\* Other : computer network, .xls document...

### REQUIREMENT SPECIFICATIONS

- 19% of pharmacists had a contact with the editor
- 10 pharmacists have started to work on **requirement specifications** for the editor to develop an **integrated module** of medication reconciliation

## DISCUSSION - CONCLUSION

Despite the interest attributed to MR and despite the need of a fully integrated module of MR to Hospital Information Systems, **only a few health facilities of the region possess an appropriate computerized system** to develop this activity. This study underlines the approaches already made by pharmacists to editors in order to integrate medication reconciliation to the HIS. Subsequently, retrieving these approaches and **writing specifications common to all health facilities is scheduled**, in order to assist them in providing a strong incentive for the editors to integrate medication reconciliation to existing HIS.

Find out about the complete report (*in french*) on our website [www.omeditpaysdelaloire.fr](http://www.omeditpaysdelaloire.fr)

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