

ANALYSIS OF DISPENSING LOGISTICS ACTIVITY CARRIED OUT BY SEMIAUTOMATIC CAROUSEL SYSTEMS

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→ BACKGROUND

Hospital Pharmacy Services develop an intensive logistics activity to ensure coverage of the medicinal supply needs to inpatients, which has prompted the need to modernise the technical resources and logistical processes with semiautomatic carousel system (SCS) for storing and dispensing.

→ OBJECTIVE

To describe the logistics activity developed by semiautomatic vertical carousel systems (SVCS) as well as horizontal ones (SHCS), of Kardex® type.

→ METHODS

- Descriptive observational study
- Period: January-June 2012
- Tertiary hospital (1493 beds)
- Data source:
 - Pharmacy Service Internal register computer application
 - Mercurio® application version 2.12

VARIABLE STUDIED

“Dispensing of medication line”

According to the document of Update of Product Catalogue and Invoicing from de SEFH-TECNO group

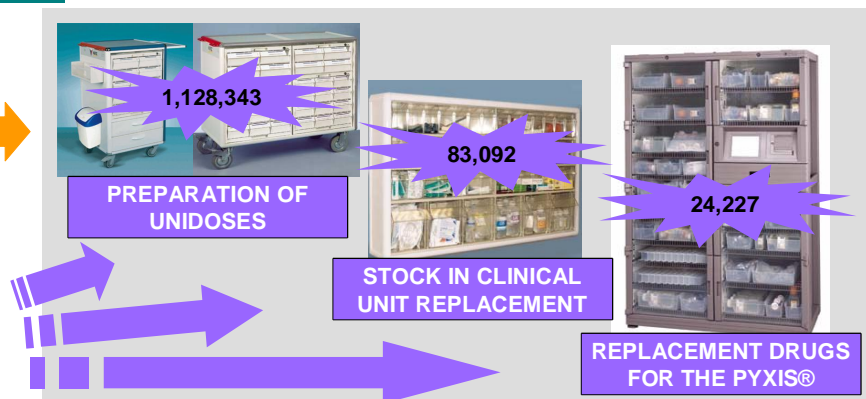
- **Type of logistic activity for dispensing** is classified according to the type of order: stock in clinical unit, preparation of unidoses and replacement drugs for the Pyxis®.
- **Workload** is calculated for each type of carousel according to the storage volume of each system: SVCS=15.6 m³, SHCS=111.4 m³.



→ RESULTS

Total lines dispensed	1,264,751
Lines prepared with SCS	1,235,662 (97.7%)



TYPE OF LOGISTIC ACTIVITY FOR DISPENSING



Workload	Lines/m ³ /day	Workload	Lines/m ³ /day
Semiautomatic vertical carousel systems 	396.32	Semiautomatic horizontal carousel system 	5.27

→ CONCLUSIONS