Efficiency models in the Andalusian Health Service Supply Chain

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Global GS1 Healthcare

Economic Management Directorate
Andalusian Health Service
ANDALUSIA GEOGRAPHIC SITUATION

- 87,597 Km².
- 8,059,461 inhabitants

ANDALUSIAN HEALTH SERVICE MEDICAL CENTRES MAP

- Hospitals: 30
- Blood transfusion Centres: 8
- Primary healthcare District: 33
- Primary healthcare Centres: 1,502
- Emergency healthcare Team: 383
Establish a sustainable development model in order to:

- Enhance patient security.
- Increase logistics service level to the healthcare activity.
- Reduce Supply Chain global cost.

Considering:

- Focus on own staff.
- Collaboration and continuous communication with suppliers.
- Use of Communications and information advanced technologies.
Law 30/2007, of October 30th, of Public Sector Contracts (LCSP), transposition of the common Directive 2004/18/CE, which adapts, the Directives 92/50/CEE, 93/36/CEE and 93/37/CEE.
REORGANIZE LOGISTICS CHAIN

- Logistics Accreditation System
- Regional Platforms
- Centralized purchasing

Logistics Accreditation System (SAL). First, we needed to know what we had in all our centers.

Allows to understand our logistics resources:

- Current situation (organization model of people and facilities).
- Alignment of current situation with corporate logistics model needs.
- Adjustment of resources to the model
Regional Platforms: The next step for the reorganization of the logistics chain was the definition of the Regional Platforms to reach these objectives:

- Regional negotiation.
- Cost reduction.
- Decrease of the variability of purchasing, economies of scale.
- Unification of criteria in the consumption of articles.
### REGIONAL PLATFORMS

<table>
<thead>
<tr>
<th>Category</th>
<th>2009</th>
<th>Objective</th>
</tr>
</thead>
<tbody>
<tr>
<td>Public Procurement units</td>
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<td>8</td>
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<tr>
<td>Purchasing units</td>
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<td>8</td>
</tr>
<tr>
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</tr>
<tr>
<td>Distribution warehouses</td>
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<tr>
<td>“Consum” warehouses</td>
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<td>People</td>
<td>1199</td>
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</table>

**OBJECTIVE 2011:** To save 10% of Chapter II (1.981M€): 198 M€
And how did we think to do that?

- Strategy defined by professionals of the Healthcare Centers.
- Optimize the structures destined to the logistic process.
- Integrate our own resources. Not to externalize in a logistic operator.
- Standarization of distribution contract model.
- There are 8 work teams of experts of our centers analyzing parts of the catalogue to centralize the purchasing.
- Several experiences with vaccines.
At the same time, we have developed the necessary tools to unify the logistic application in the centres with the bases of the corporate model:

The New Technologies are an indispensable tool to improve the current management of purchases and logistics:

- **Increasing the efficiency of the involved processes.**
- Facilitating the **rational use of the sanitary products**.
- Making possible the implantation of **new management models** to revalue the basic aim of the organization: **healthcare**.
We have been working since 2004 to have all the information classified and centralised.

- **Assets and Services Catalogue.** Definition of Products and Services to be purchased.
- **Suppliers Centre.** Company Registration
- **Products Data Bank.** Suppliers product information
- **Purchasing Web.** Queries of suppliers products offers
- **Consumption Agreements Management & Purchases Integrated Plan.**
- **Public Procurement Manager: Publiline.**
- **E-Procurement Platform.** Corporate platform for the electronic purchase
Reengineering process:

- Redefinition of the whole logistics process from suppliers up to patients realized by a group of experts of our centers.
  - Adopting the best practices and optimizing the processes.

- Ad-hoc software tool for SIGLO.

- Training of logistic staff

- GS1 Standard system adoption:
  - Automatic identification and data capture
  - EDI: Electronic Data Interchange in the commercial transactions
Implementation roadmap:

GS1 IDENTIFICATION SYSTEM

- **2005**
  - Collaboration Agreement with GS1 Spain
  - Hospitals work team analyzed:
    - SAS needs
    - Current Codification status of the health sector.
  - Mandatory Codification and Simbology Requirements Document.

- **2005-2010**
  - Training and support to our staff and suppliers.
  - Logistic attributes based on GS1 Standards were introduced by the suppliers in our Data Base for 210.770 medical devices products.
  - Validation Match of symbology and Data Base Logistic attributes information
  - Participation GS1 Spain Work teams and Spanish Health Services work teams to unify criteria.
## Resultado de la búsqueda rápida ::

### Búsqueda por Código SAS: 01.11.01.200000

<table>
<thead>
<tr>
<th>Código SAS</th>
<th>CIP o Ref Fabricante</th>
<th>Empresa</th>
<th>Denominación Comercial</th>
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<tbody>
<tr>
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<td>000001841620</td>
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<td>Homologado DT</td>
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### Búsqueda Rápida

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<tr>
<th>CIP</th>
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**Dirección General de Gestión Económica - Central Logística de Compras y Servicios**
<table>
<thead>
<tr>
<th>CIP</th>
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<tbody>
<tr>
<td>Denominación Comercial</td>
<td>TREPANO FIJACION MANUAL (01.16.03.005000)</td>
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<td>CORONET</td>
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</tr>
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**Indicaciones**

Extracción de la córnea del receptor para transplante.

**Descripción**

Dispositivo que consta de una aguja de acero inoxidable con filamentos cruzados para su alimentación y un eje visual. Puede ser completado con lápiz de genciana para marcar la córnea.

<table>
<thead>
<tr>
<th>Material / Composición</th>
<th>Medidas / Dimensiones</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acero inoxidable grado médico y material plástico</td>
<td>n/d</td>
</tr>
</tbody>
</table>

**Envasado**

Envase unitario estéril. Fácil de abrir, de forma que se garantice la esterilidad en el proceso de apertura. Etiquetado en el que figure la denominación del artículo, el método de esterilización utilizado... la fecha de caducidad... el número de lote.

**Garantía de Calidad**

Marcado CE
<table>
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<tr>
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<tbody>
<tr>
<td>CIP:</td>
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<tr>
<td>Empresa asociada al producto:</td>
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### Presentaciones comerciales

<table>
<thead>
<tr>
<th>EAN</th>
<th>Número total de unidades de consumo contenidas</th>
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<tbody>
<tr>
<td>7332430009142</td>
<td>14</td>
</tr>
<tr>
<td>7332430417541</td>
<td>168</td>
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</table>

### Descripción

El equipo consta de:
- 2 Cubiertas 2 Partes autoadhesivas
- 1 Saña autoadhesiva
- 1 Cinta autoadhesiva
- 4 Celullk (batas de celulosa)

### Medidas y Dimensiones

<table>
<thead>
<tr>
<th>Material / Composición</th>
<th>Medidas / Dimensiones</th>
</tr>
</thead>
<tbody>
<tr>
<td>Saña autoadhesiva</td>
<td>120x190 cm</td>
</tr>
<tr>
<td>Cubierta superí y subi</td>
<td>150x240 cm</td>
</tr>
<tr>
<td>Capa inferior</td>
<td>130x170 cm</td>
</tr>
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</table>

### Envase

Recubierto con papel y dispensable de color blanco y no absorbente. No hay necesidad de desestabilización. La referencia comercial es: D.0. 1001/2004.
<table>
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<tbody>
<tr>
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<tr>
<td>Empresa asociada al producto:</td>
<td>MÖLNLYcke HEALTH CARE S.L.</td>
</tr>
</tbody>
</table>

### Código EAN: 7332430009142

- **Número de unidades del nivel anterior contenidas en la agrupación:** 2
- **Número total de unidades de consumo contenidas:** 14
- **¿Es unidad de pedido?:** Sí
- **Tipo de embalaje:** Caja
- **Instrucciones de manipulación:** Almacenar en lugar fresco, oscuro y seco
- **Fecha inicio disponibilidad:** NO
- **Fecha fin disponibilidad:** NO

#### DIMENSIONES DEL ENVASE O EMBALAJE

- **Peso bruto:** 15,190
- **Unidad de medida de peso:** Kilogramos
- **Anchura:** 391,000
- **Altura:** 460,000
- **Profundidad:** 596,000
- **Unidad de medida de longitud:** Milímetros

**Economic Management Directorate  Andalusian Health Service . Jun 2010.**
ELECTRONIC DATA INTERCHANGE: EDI

Centr

ORDERS (€)

ORDRSP

DESADV

Goods with SSCC (00)

RECADV (72h)

INVOIC (Receipt confirmation)

GENRAL

Supplier
ELECTRONIC DATA INTERCHANGE: EDI

**Time line:**

<table>
<thead>
<tr>
<th>Date (Nº Centres)</th>
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<th>Prosthesis</th>
<th>Pharmacy</th>
<th>Rest Catalogue</th>
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<tr>
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<td>DESADV</td>
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<tr>
<td>RECADV</td>
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<td>INVOIC</td>
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<tr>
<td>GENRAL</td>
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<td>PRICAT</td>
<td></td>
<td></td>
<td>JUN 2011 (53)</td>
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</table>

- All SAS hospitals will implement progressively EDI with SIGLO
Complete Processes Standardization: EDI + AI

Issues I:

- Incorrect codification and/or barcoding.
- Identification of products with internal codes (Instead of GTIN)
- Identification of suppliers with internal codes (Instead of GLN)
- Adaptation of suppliers ERPs to SAS commercial requirements:
  - ORDERS (by sales unit)
  - DESADV with (00)
  - RECADV (72 hours)
  - INVOICE with electronic signature
ELECTRONIC DATA INTERCHANGE: EDI

Issues II:

- **Updating Health Sector EDI Guides**
  - Development SAS guides

- Constant ERPs updates (suppliers and SAS).

- Increase of Catalogue scope (Pharmacy, reactives, services ...)

- Provisional software solutions developed for hospitals before the upcoming SIGLO implementation
  - Braun, Boston y J&J
  - Production 1th Jun
<table>
<thead>
<tr>
<th>SUPPLIERS</th>
<th>LABORATORIES</th>
<th>DISTRIBUTORS LOG. OPERATORS</th>
<th>HEALTH SERVICES &amp; HOSPITALS</th>
</tr>
</thead>
<tbody>
<tr>
<td>3M</td>
<td>Alcon</td>
<td>Alliance Healthcare</td>
<td>Consellería de Sanitat Valenciana</td>
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<tr>
<td>A.P SUD Europa</td>
<td>Bristol Myers Squibb</td>
<td>Cecofar</td>
<td>IB-Salut</td>
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<tr>
<td>B. Braun Medical</td>
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<td>Cofares</td>
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<td>Becton Dickinson</td>
<td>Merck</td>
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<td>Osakidetza</td>
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<td></td>
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<td>USP Hospitales</td>
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WHAT IS CTCL?

The Technical Commission of Purchasing and Logistics of the Health Services (CTCL) has been created on January 26th, 2006. It represents on a permanent basis the regional services of the Spanish National Health System. It has been conceived as a response to the need for fostering communication, as well as experience and information exchange in the field of sanitary buying and logistics function.

Its objectives and ends are:

- Define and implement strategies of associative cooperation and coordinate its sectorial actions in the field of buying and logistics.
- Exchange technical information on the organisation and the functioning of the buying and logistics systems of the health regional services, promoting the best management practices.
- Boost specialised training and qualification for professionals and executives working on those matters.
ACTIVITIES

For its work the Technical Commission of Purchasing and Logistics of the Health Services (CTCL) sets up different working groups. They study and analyse different aspects related to the buying and logistics function of the sanitary services.

At present time there are eight working groups in active:
TECHNICAL CONGRESS

On a national scale the buying and logistics technical congress of the Health Services are designed to be the discussion forum of the Technical Commission (CTCL). They pretend to be a meeting point between health services sanitary supply managers where open, constructive and shared thinking among every participants (representatives of the sanitary centres and central services) allows to define future working ideas and lines, progressing towards individual improvement and multiple department collaboration.

Up to now two congresses have been held: the first one in Toledo in October 2007 and the second one in Palma de Mallorca in March 2009. The next one is to be in Sevilla in 2011.
CONCLUSIONS

Collaboration is not enough, It’s time for Engagement
THANKS!

For any further information:

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