Results of the efficiency models in the Andalusian Health Service Supply Chain

María Ramírez Gutiérrez
Economic Management Directorate
Andalusian Health Service
Area: 87.597 Km\(^2\).
Inhabitants: 8,059,461
### ANDALUSIAN HEALTH SERVICE (SAS) NUMBERS

#### CENTERS

<table>
<thead>
<tr>
<th>Category</th>
<th>Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hospitals</td>
<td>29</td>
</tr>
<tr>
<td>Health Centers</td>
<td>1,514</td>
</tr>
<tr>
<td>Management Areas</td>
<td>9</td>
</tr>
</tbody>
</table>

#### STAFF

<table>
<thead>
<tr>
<th>Category</th>
<th>Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hospitals</td>
<td>62,132</td>
</tr>
<tr>
<td>Health Centers</td>
<td>22,636</td>
</tr>
</tbody>
</table>

#### BUDGET

<table>
<thead>
<tr>
<th>Description</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Budget</td>
<td>8.602 M€</td>
</tr>
</tbody>
</table>
Establish a sustainable model in order to:

- Increase patient security.
- Increase logistic service level of the healthcare activity
- Reduce Supply Chain global cost
The Andalusian Health Service Purchasing model is:

- Dynamic
- Used for all the healthcare centers of Andalusia
- Regularize the supply and the demand
- It offers professionals all the corporative tools to achieve this process.
CURRENT PROYECTS

Corporative Management Strategic Lines:

1.- To add the steps of the logistic process: Integral Logistics Provincial Platforms

2.- To organize the purchase process:
   Catalogue
   Normalize the public procurement
   Integrated Purchase Planning

3.- Professionals Involvement: Spend Agreement, Technical Commissions, work groups.

4.- Develop and implant the information system: **SIGLO** (Integral System of Logistic Management)
In 2009 the logistic map was evaluated in an internal cost analysis:

- Staff
- Distribution
- Warehousing

And it was decided to add all the steps of the logistic process in 8 provincial platforms:
1.- PROVINCIAL PLATFORMS
ADVANTAGES …

• Better purchasing **prices** and general **conditions**.

• Encourage **modernization of warehouses** and distribution

• **Reduction** of official acts and **bureaucracy** with easier procedures as the **European Directive** requires.

• **Rational use of the sanitary products**, unification of criteria in the consumption of articles by professionals agreement
2.- ORGANIZATION OF PURCHASING PROCESS

• The goods and services **Catalogue** shows the **demand**
  
  • Generic Center (*only one internal code in SAS: 122.496*)
  • Expansion of the **scope to all** the economic management
  • **Provincial** Alignment (*one reference for Generic center*)

• The goods and services **Bank** shows the **supply**
  *(404.120 products)*

• Normalize the **Public Procurement** and **Purchases**
  Integrated Planning

  • Spend Agreement management
3.- INVOLVEMENT OF PROFESSIONALS

The model promotes the active participation of the professionals and their **co-responsibility in the economic sustainability**.

Looking for their participation with:

- Spend Agreement
- Technical Commissions,
  - Provincials
  - Regional
- Involvement in work groups
To implant SIGLO has supposed:

- Redefinition of the whole logistic process from suppliers up to patients realized by a group of experts from our centers.
- Adopting the best practices and optimizing the processes.
- Centralized and standardized information, shared for all the stakeholders of the supply chain.

IT’S IMPLANTED IN ALL THE PROVINCES SINCE OCTOBER!
SIGLO for suppliers:

External manager in the Suppliers Centre:

• External orders (contacts, orders, incidences y complaints)
• Warehouse (entered register, reception confirmation)
• Healthcare consignment
• Invoicing (register of invoices)
And with the implantation of SIGLO, the **GS1 Standard** system:

**Goods Management**: Automatic identification and data capture EAN-UCC (GS1)
- Product **Traceability, safety** for patients and professionals

**Document Management**: Electronic Data Interchange in the commercial transactions **EDI**.
- ORDERS
- DESADV (Despatched advice)
- RECADV (Reception advice) (72 working hours)
- INVOIC With electronic signature
And for GS1 Standard system adoption:

- Technical Commission of Purchasing and Logistics (CTCL) [www.ctcl.es](http://www.ctcl.es)
  - Work Group Traceability
  - Work Group EDI

- GS1 Spain
- GS1
- EDICOM
4.- SIGLO - 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 Symbol Requirements Document.

2005- 2012
• Training and support to our staff and suppliers.
• Logistic attributes based on GS1 Standards were introduced by the suppliers in our Data Base for 306,975 products
• Validation Match of symbol and Data Base Logistic attributes information
• Participation GS1 Spain Work teams and Spanish Health Services work teams to unify criteria
CATALOGUE

Scope: All kind of goods and services:

• 122,496 Articles. Example: Blue Ballpoint

BANK

• 404,120 Products: Information introduced by the suppliers. (Brand, model, reference, GTINs, photo....)

  • GTIN information: 306,975 products
### 4.- SIGLO - GS1 IDENTIFICATION SYSTEM

| Código SAS: | 01.11.01.200000 EQ. CAMPOS QUIRURGICOS UNIVERSAL STANDARD |
| CIP: | 10000657540 |
| Empresa asociada al producto: | MÖLNLYcke HEALTH CARE S.L. |

| Código EAN: | 73324300000142 |
| 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: | Copa |
| Instrucciones de manipulación: | Almacenar en lugar fresco, oscuro y seco |
| Fecha inicio disponibilidad: | NVD |
| Fecha fin disponibilidad: | NVD |

**DIMENSIONES DEL ENVASE O EMBALAJE**

| Peso bruto: | 15,192 |
| Unidad de medida de peso: | Kilogramos |
| Anchura: | 391,000 |
| Altura: | 480,000 |
| Profundidad: | 596,000 |
| Unidad de medida de longitud: | Mилímetros |
All of the hospitals have a warehouse which manages the consumer unit with the automatic capture of GS1 symbols.
4.- SIGLO - GS1 IDENTIFICATION SYSTEM

When in healthcare?

0,10 €
Mandatory use of EDI

At 1st January of 2013 for:
• Medical devices
• Implants
• Medicines

And 1st April 2013 for Diagnosis Reagent
Requirements

• Identification of products with GTIN
  • Codes information in our Data Base
  • GS1 symbols in the packaging
• Identification of suppliers with GLN
• Implementation of all the messages:
  • ORDERS (Price, by sales unit)
  • DESADV with SSCC (00)
  • RECADV (72 hours)
  • INVOIC with electronic signature and Receipt Confirmation
• GENRAL
• Complete the EDI Test Plan
Currently

23 suppliers live
56 suppliers in tests
144 prepared to start test
Critical points in the implantation of SIGLO:

- **Catalogue of all the articles** in the Goods and Services Catalogue scope.
- **Centers adaptation** to the design of
  - New management structures: **Provincial Platforms**
  - Logistic management of **consumer warehouse**.
  - Logistic management of **consignment**.
  - **Reception confirmation**.
  - **Spend Agreement** management for all the catalogue
- Technical and economic **offers** only **managed by suppliers** (Open zone of the Bank)
- Delivery **deadlines** delays control
- **Corporative control panel**.
The implantation of the Integral System of Logistic Management (SIGLO) as the corporative tool for economic management, eliminating the 68 initial local systems has supposed:

Optimization, Safety, Standardization, Transparency, Simplification, Order, Corporative Information, Modernization, **International Standards used**, key questions management, Economic Savings, Professionalization,…

And overall a **CULTURAL CHANGE, A NEW LIFE**
RESULTADOS

- GASTOS DE PERSONAL
- GASTOS EN TRANSFERENCIAS A LAS FAMILIAS
- GASTOS EN FARMACIA (CAP. IV)
- GASTOS EN COMPRA DE BIENES Y SERVICIOS
- TOTAL GASTOS CORRIENTES (Excluidos G. Financieros)
“There is a motive force that is more powerful than steam, electricity or atomic energy: will power.”

Albert Einstein
MOITO OBRIGADO!