



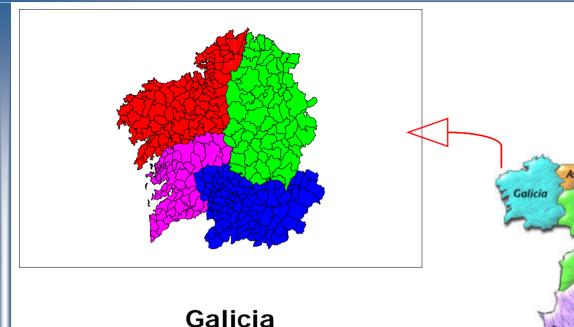


SERVICIO GALLEGO DE SALUD LOGISTICS PROJECT









Galicia

Land: 29.574 Km2 - 5,84 %

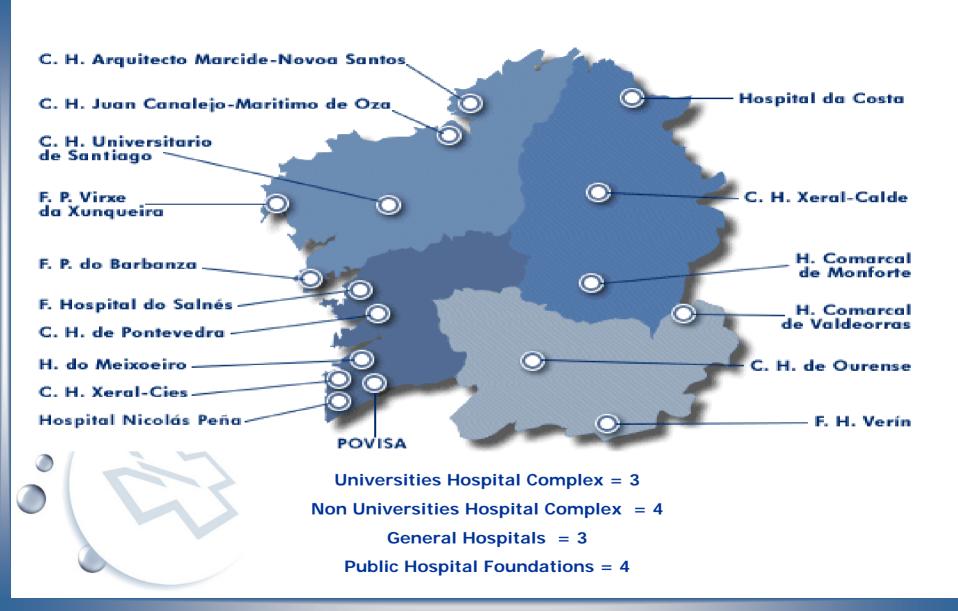
Population: 2.750.000 -6,40 %

Density =93,02 P/km2



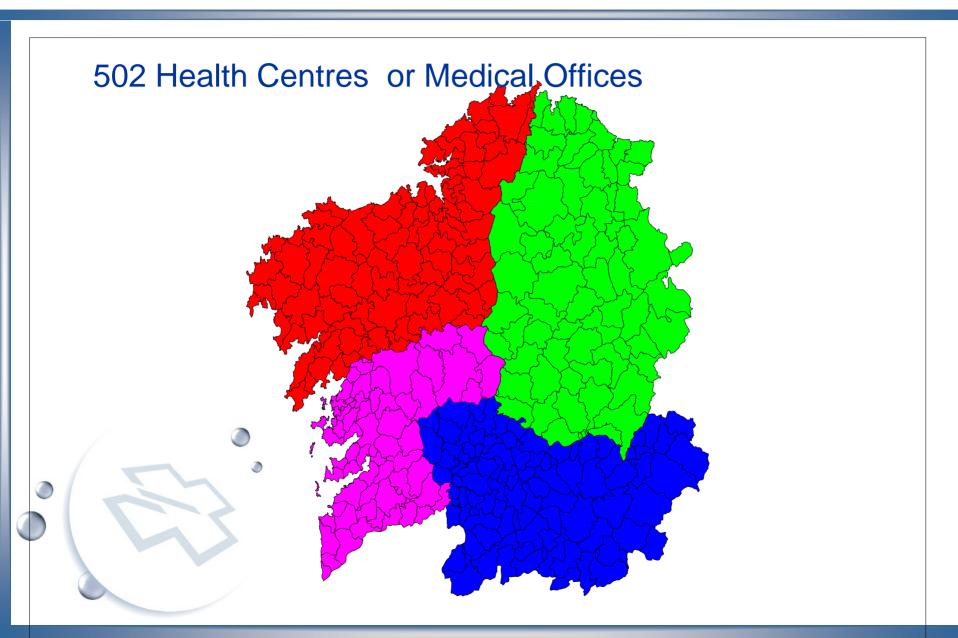
















PURCHASE (*)	224.572.122
CENTERS	23
HHRR PURCHASE/WAREHOUSE	292
CENTRAL DEPOTS	38
BEDS	7.040
CATALOGUED PRODUCTS	28.468
COMMERCIAL REFERENCES	68.914
DELIVERING POINTS	2.772
INTERNAL DELIVERIES	329.842
SUPPLIERS WITH GS1 CODE	82
ORDERS FOR SUPPLIERS	194.538

(*) Except Investment, pharmaceutical products, blood products, gases, means of communication and maintenance stuff.



XUNTA DE GALICIA

CONSELLERÍA DE SANIDADE LOGISTICS CHALLENGES



- **✓ Geografic dispersion**
- **✓** Administrative dispersion
- **✓** Complexity of the productive structure of hospitals
- ✓ Different culture and organisation of each hospital
- ✓ Different use of stuff for the same medical action. Different catalogues for each centre.
- **√Low control of the goods in course (Outskirt warehouses)**
- **✓** Centralize without reducing autonomy of the centres management to keep close.
- ✓ Promote a mixed supplying structure, centralizing the organisation, criteria, information systems and purchase for some products.
- **✓ Promote community projects improvement.**





HOW CAN WE IMPROVE?



With the internal customers (Healthcare staff):

- •Eliminate or decrease the attention of the healthcare staff over their products supplying.
- •Improving stock level in the optimal point with reliability and suitable term, trying to obtain the best balance between customer service and inventory. Outskirt Depots Control.
- Assurance products traceability
- Decrease incidences and mistakes
- •Reduce administrative procedure
- Lower the total property cost (TPC)

With our providers:

- Facilitate interchange information
- Assure an efficient supplying
- •Improve the transaction documents interchange
- Save in administrative costs
- Enhance collaborative environment

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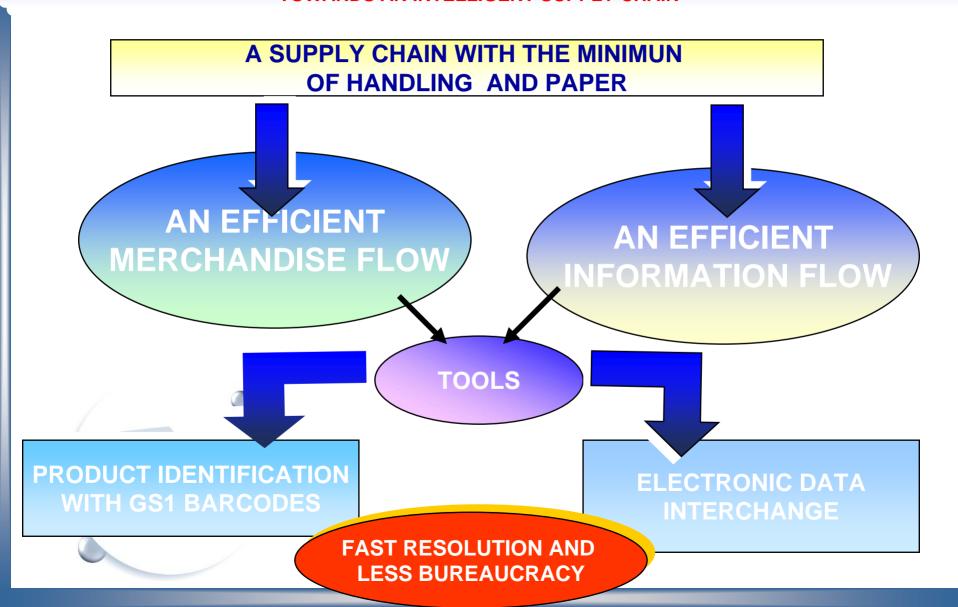
Centralized systems:

- •SERGAS Products Catalog: As a tool for product catalog
- Provider virtual office: Possibility to check the provider's invoices
- •Integral Purchase. Integracom Project
- Utilities for the management centres
 - Electronic domestic orders : Simplified the communication among different departments
 - Barcodes: Rapid and accurate products identification, besides the optimitazion in the processes of distribution and replacement.
 - EDI: Automatization in the communication with the provider.





TOWARDS AN INTELLIGENT SUPPLY CHAIN

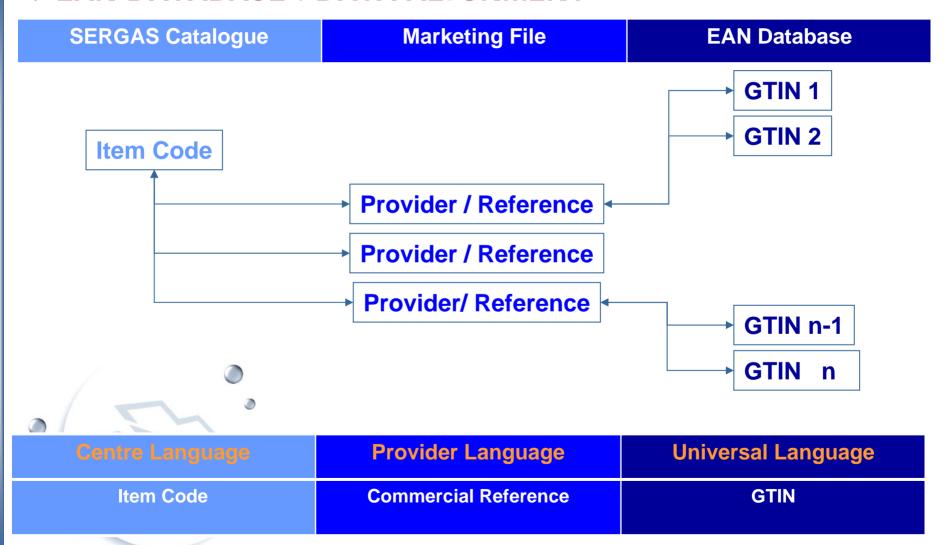




EAN DATABASE



A EAN DATABASE: DATA ALIGNMENT





EAN DATABASE



*** EAN DATABASE**

Products must be identified with GS1 128, and they must linked the internal product code with the provider's GTIN.







BC IN SERGAS



BARCODE:



They allow the automatic data capture of the product in any logistics point.



CDB EN EL SERGAS



Logitics points where barcodes are allowed

- Different organization models covered, corresponding to diverse realities:
- → BY THE MOVEMENT OF THE PRODUCT IN THE LOGISTICS OF THE CENTRE.
- → Stocks Pacts:

Level of stocks to maintain or average values of consumption settled down. Warehouse staff check periodically

- Plant Management : Replacement by out of stock
 - There is a selfcontrol of the unit level; incomings and outgoings are registered and replacement is automatic in out of stock points.
- Inventory in Central Depots:
 - Count of stocks in General Depots.
- Depots Management.
 - Traceability of the product in depot (implant) in its movement through the centre



PRODUCT IDENTIFICATION



PROVIDER MUST LABEL

- GS1 13 (Non-Medical Device)
 - It is used to identify the unit





- Aplication Identifiers:
 - × (01) It precedes the article identification
 - (02) It precedes the contained article identification
 - × (37) Quantity
 - (17) It precedes the expiry date (YY/MM/DD)
 - (10) It precedes the batch number











Electronic Interchange of Needs

- Elctronic interchange between domestic customers and Purchase/Suppy
- Interchange of electronic messages with providers (EDI) by Internet





SUPPLY SYSTEM



❖ Management System of Internal Supplying:

- Management systems for the unit level distribution circuits:
 - Replacement by stock pacts
 - Replacement by consumption pacts
 - Replacement by management of the stock level at the unit level (count)
 - Materials application forms
 - Dispensing closets





Internal Interchange





Merchandise Shipment

Warehouse entre



Advantage in the centre circuit



Inventory of General Depots and Ouskirt Warehouses





Implants Management



Warehouse dispatch and plant depots



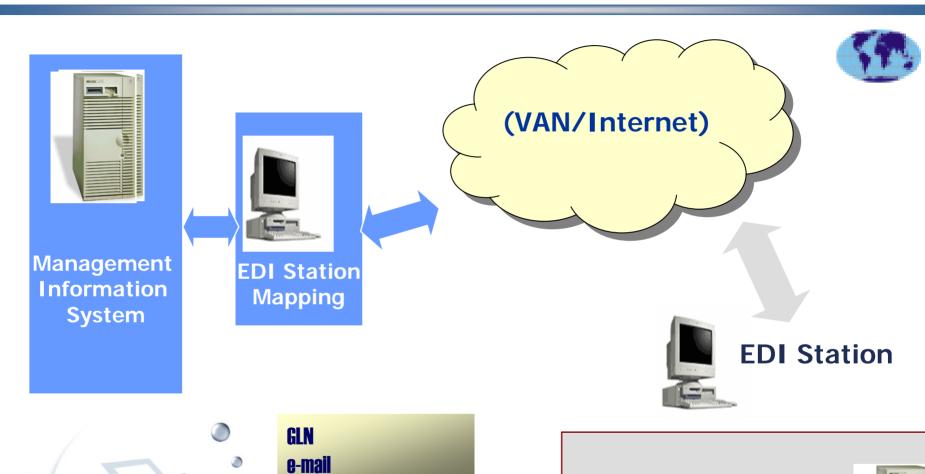
Barcodes Printing

lables



External Interchange





Provider System









Communication messages for SERGAS



Order

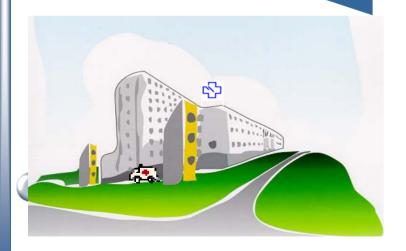


Despatch Advice



Invoice









PURCHASE PROCESS



Buyer's actions:

- 1. Identify purchase needs.
- 2. Order by IT
- 3. Order printing
- 4. Provider notification (fax/mail/phone).



ORDERS

Provider's actions

- 1. Orders Reception
- 2. Mechanization in their IT
- 3. Dispatch preparation
- 4. Dispatch receipt.







INVOICE

Buyer's actions

- 1. Merchandise reception with delivery note.
- 2. Mechanization in their IT the delivery note.



Delivery note

Buyer's actions:

- 1. Invoice reception
- 2. Mechanization in their IT the invoice



CONNECTED PROVIDERS



A	LC	ON	Cl	JSI	. S	Α.
, · ·	_	$\mathbf{-}$	•		, –	.,

- JOHNSON & JOHNSON, S.A.
- •ROCHE DIAGNOSTICS, S.L.
- **BECTON DICKINSON, S.A.**
- **ABBOTT LABORATORIES, S.A.**
- •BIOMERIEUX ESPAÑA, S.A.
- ■3M ESPAÑA, S.A.
- •MOVACO, S.A.
- **PALEX MEDICAL, S.A.**
- IZASA, S.A.
- **ABBOTT CIENTIFICA, S.A.**
- **B.BRAUN MEDICAL, S.A.**
- **•CLINICA Y CONTROL, S.A.**
- INTERSURGICAL ESPAÑA, S.A.
- **BAXTER, S.L.**
- **LABORATORIOS INDAS, S.A.**
- VWR INTERNATIONAL EUROLAB, S.L.
- •MENARINI DIAGNOSTICOS, S.A.
- **CONVATEC, S.L.**
- MOLNLYCKE HEALTH CARE, S.L.

- **TEXTIL PLANAS OLIVERAS, S.A.**
- •GALMEDICA, S.L.
- **B.BRAUN-DEXON, S.A.**
- **•**COLOPLAST PRODUCTOS MEDICOS, S.A.
- **SMITH & NEPHEW IBERICA, S.A.**
- **LAB.UNITEX-HARTMANN, S.A.**
- **ARROW IBERICA, S.A.**
- **TYCO HEALTHCARE SPAIN, S.L.**
- •FARMABAN, S.A.
- BIOMET SPAIN ORTHOPAEDICS S.L
- **LORCA MARIN, S.A.**
- **TORRAS VALENTI, S.A.**
- •HOLLISTER IBERICA, S.A.
- **ELA MEDICAL IZASA, S.A.**
- **LABORATORIOS INIBSA, S.A.**
- **GALLEGA DE SUMINISTROS, S.A**
- •ITURRI
- **S.E. DE CARBUROS METALICOS, S.A.**
- ***HOSPIRA PRODUCTOS FARM.**
- **•EDWARS LIFESCIENCES**

- •AGFA GEVAERT, S.A.
- •TECNICAS MEDICAS MAB
- **•DIAGNISCAN**
- •REMECO S.A.
- •BIOTRONIK, S.A.
- •INSTITUTO GRIFOLS
- •LABORATORIOS GRIFOLS
- **•DADE BEHRING**
- •BOSTON SCIENTIFIC IBERICA, S.A.
- •C.M.M, S.L.
- •NUMIL NUTRICIÓN, S.R.L.
- **•SCA HYGIENE PRODUCTS, S.L.**
- •NUTRICIA, S.R.L.
- •STRYKER IBERICA, S.L.
- •TERUMO EUROPE
- •OIARSO SOC. CCOP

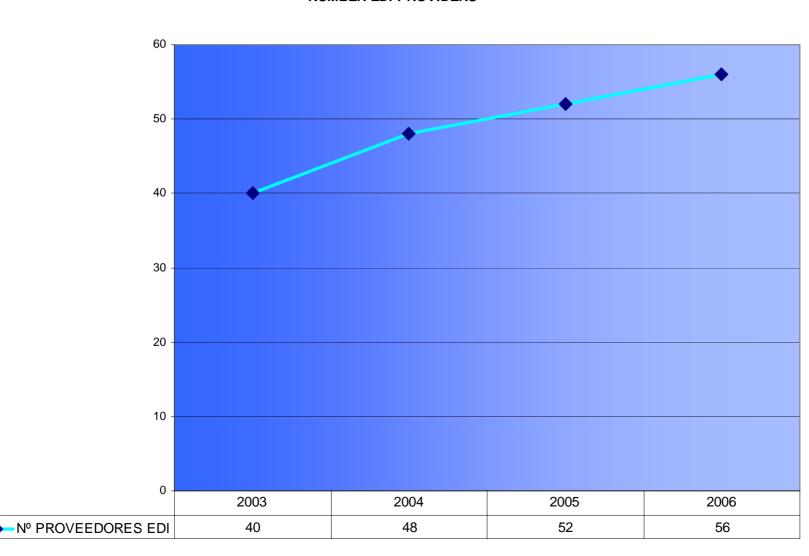


XUNTA DE GALICIA

CONSELLERÍA DE SANIDADEMPLANT MANAGEMENT



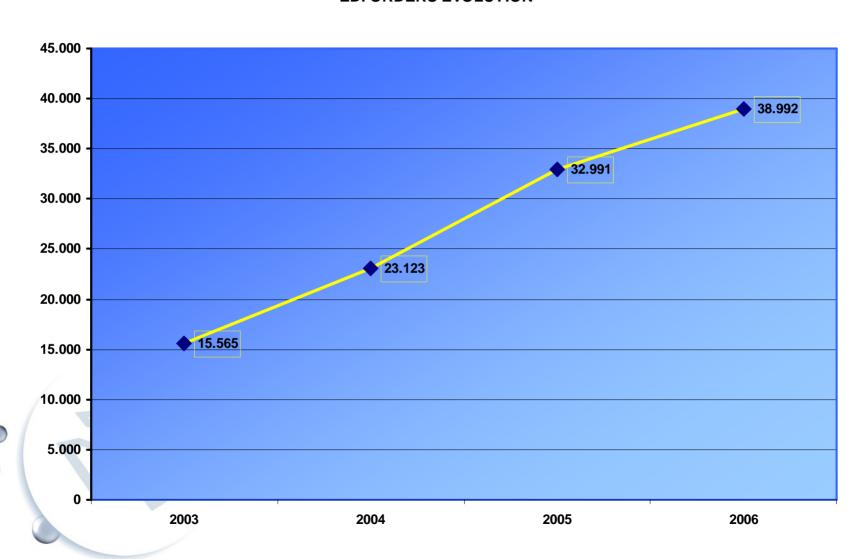






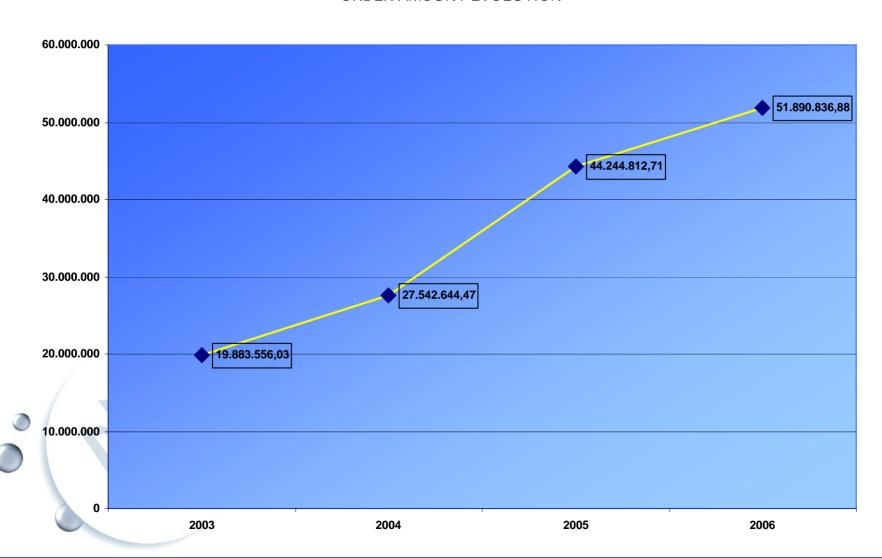


EDI ORDERS EVOLUTION





ORDER AMOUNT EVOLUTION





EVOLUTION PERCENTAGE OF TOTAL ORDERS AND AMOUNT







IMPLANT MANAGEMENT AND ITS TRACEABILITY







CONSELLERÍA DE SANIDADEMPLANT MANAGEMENT



Royal Decree 414/1996, 1st of Mars, Article 25, monitoring systems, part 4, says about traceability:

"The implants below listed distributed in Spain must be supported by an implantation card

a) Heart and Blood implants

b) Central nervous system implants

c) Nervous and muscular stimulators

d) Spinal column implants

e) Infusion bombs to be implanted

- f) Artificial hip
- g) Artificial knee
- h) Breast implant
- i) Implanted lens

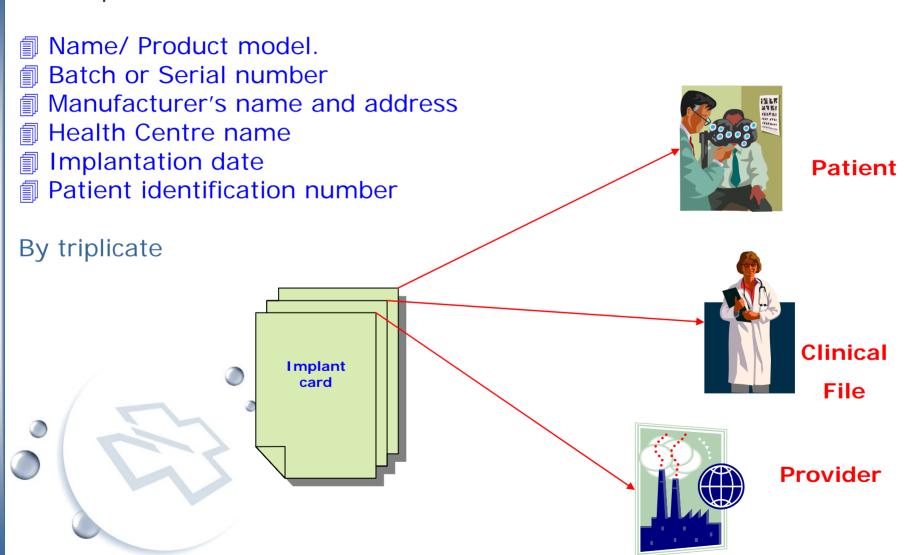


XUNTA DE GALICIA

CONSELLERÍA DE SANIDADEMPLANT MANAGEMENT



The implant card includes:





INTERNAL WAREHOUSE BARCODE



Products in Depot (Depot number is identified)

Internal label Product in depot

Article name

Commercialreference

Provider



(96) Depot n

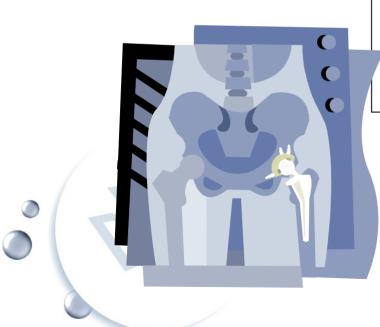
GFH.: XXXX

Loc.: XXXX

S.N..: Series n

B.N.: Batch n

E.D.: yy/mm/dd





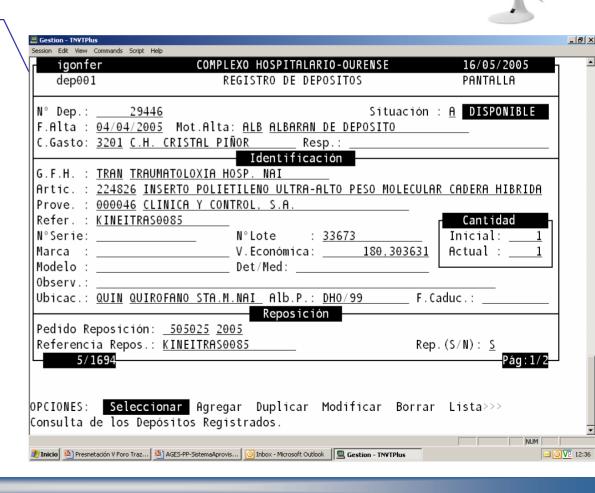
IMPLANTS MANAGEMENT



* There is a file for every component of an implant in the depot management system

Implant file







DATA ENTRY



Data entry by keyboard



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Pedido Reposición:	C.Gasto:	
Drátacia	Alb.Pr.:	
Proveedor:		
N° Dep. Artíc. Refere	ncia de Rep. Cant.GFH N° de Serie N° de Lote 🔀	>>
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Artículo :		•
Ubicación :	Situación: Cant.Actual:	-
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When the product is not identified by GS1 codes, delivery note data is transferred to the depot file.



DATA ENTRY



Data entry by GS1 128 scan







If the provider identifies the product with a barcode, its information is captured by a reader and transferred to the depot file



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	CLINICOS		
	BIC. FEC.MOV. CANT		
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Código de Ba	rras: 🛚		
coange de ba			
rticulo :			
bservac. :			
bservac. : bicación :	Danier		
bservac. :			



DATA ENTRY

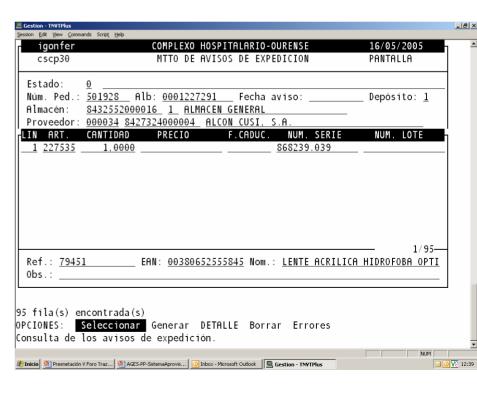


Data entry by EDI DESADV message



If the provider sends the message of Dispatch Advice where product details are identified by EDI, they will be automatically included in the depot file







DATA OUTGOING



After the implant is used, the label is read (provider or own's) by a scanner and the result is:

- Deduction of the implanted element from the provider depot
- Implant card printing
- Reposition and invoicing proposal that later is ratified, sending it by



mail



Automatic



EDI/Orders





XUNTA DE GALICIA

CONSELLERÍA DE SANIDADEMPLANT MANAGEMENT



Hospital : COMPLEXO HOSPITALARIO-OURENSE

Ejercicio: 2.005 Usuario : mpatbla

<<< Tarjeta Implantación >>>

Página:

Fecha: 16-05-05 Hora: 12:46:37

Número de implante:

15994

Centro de gasto:

3201 C.H. CRISTAL PIÑOR

Número Intervención:

051010444

GFH/U.Consumo:

TRAX TRAUMATOLOXIA -HOSP. XERAL

depl010

Fecha de mecanización:

13/05/2005

Fecha de intervención:

12/05/2005

Paciente

N.H.C: 140977

N.S.S: 32-00262573-01

DNI/Pasaporte: 76689993

Facultativo: LADO

N° de colegiado:

C.art.	Artículo	C.pro.	Proveedor	Serie	Lote.	Referencia	Cantida
		000363 COMERC 000363 COMERC	CIAL AOMEDIC, S.A.		2261390 2253946 2245275 2261484	4263 0100013207 290059100 172805	1 1 1 1



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TRACEABILITY CONTROL



