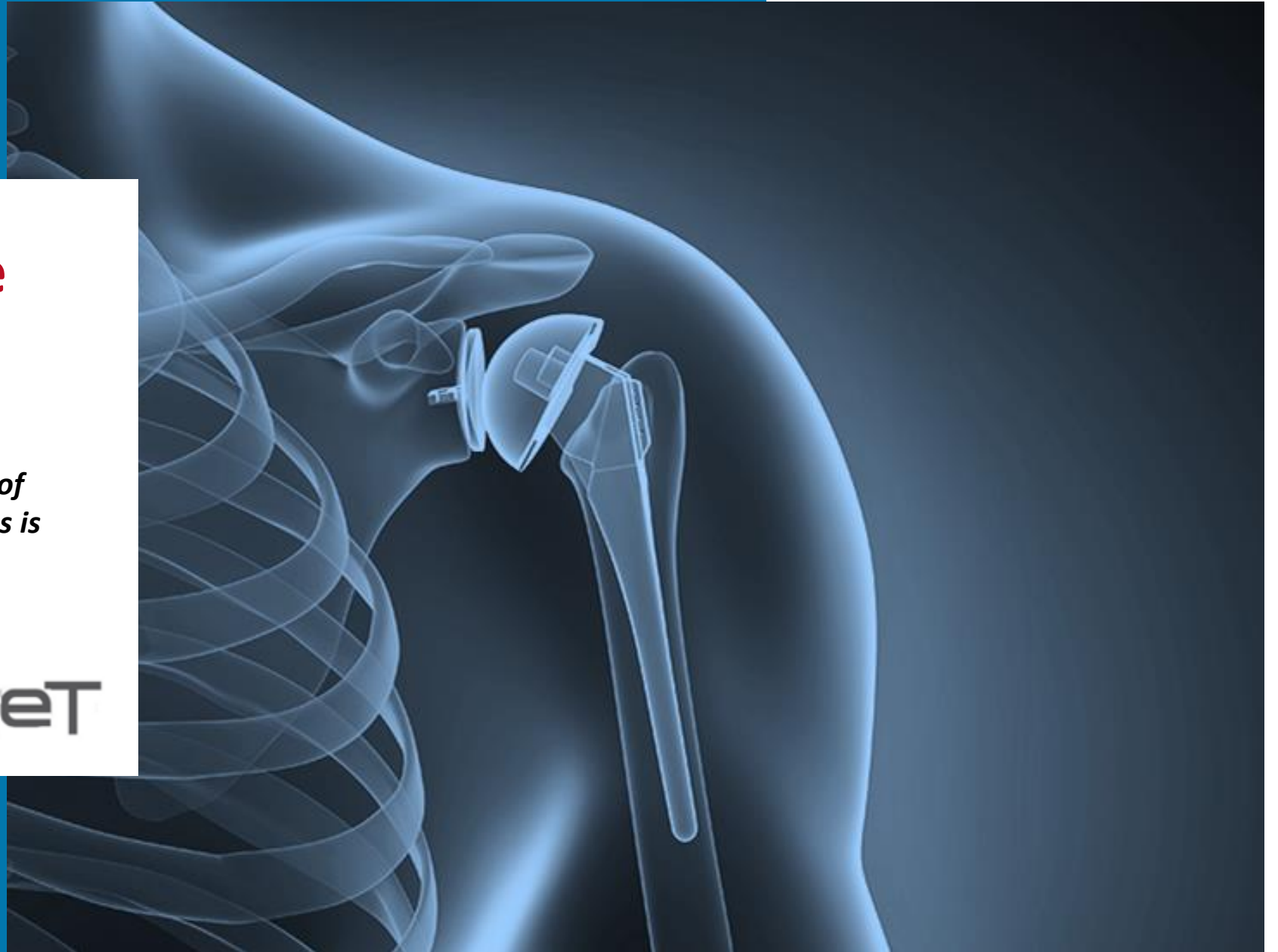




Be prepared for the future

Completely paperless management of your implants and ALL medical devices is now a reality





Management and tracing implants – medical devices

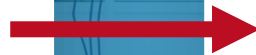
Technology

Databases

Result

The logo for Stemato, featuring the word "Stemato" in a white sans-serif font with a red rounded rectangle behind the "Stem".

Stemato®

The logo for eCoGUDID, featuring the word "eCoGUDID" in a white sans-serif font with a teal rounded rectangle behind the "eCo".

eCoGUDID

The logo for eComET, featuring the word "eComET" in a white sans-serif font with a teal rounded rectangle behind the "e".

eComET

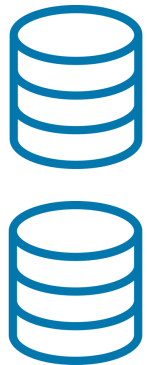
GTIN information

GS1 – HIBCC barcodes on implants & ALL medical devices

- Present on packaging of all devices
- Standard formats
 - 1D
 - 2D
 - 1D - Split barcode



From different sources to a unique result



Permanent exchange:

- Hospital product catalogues via HL7 - .xml - ...
- Different hospital systems
- Invoicing in different departments
- Used products in different ERP systems
- Electronic Patient File



EcoGUDID® (FDA database) UDI is linked to the GS1 – HIBCC code of the manufacturer

Tracing with eCoMET

Step 1: inventory

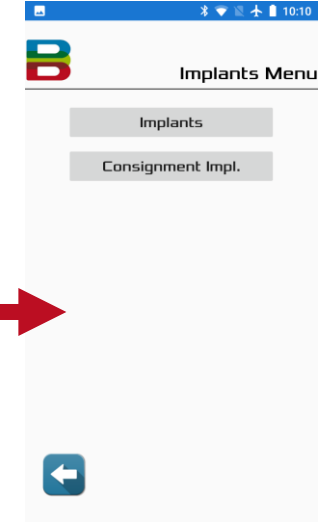
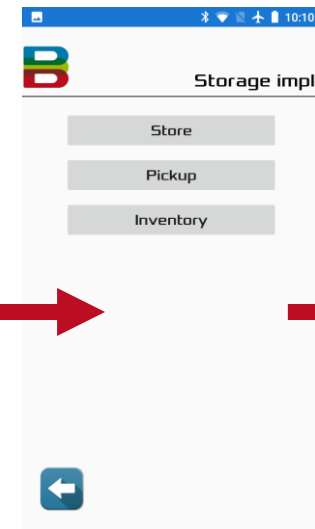
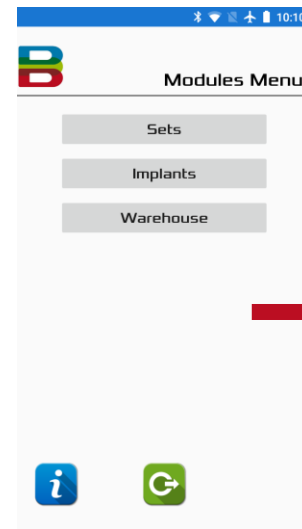
Managing inventory via Android scanner



scanning per location



Menu for different functionalities



Result

- Immediate overview of implants yet to be linked
- Overview of complete stock including consignment goods

Inventory scanning



1



Already linked GTIN codes

- Implants
- Other medical devices



2



Known but not yet linked GTIN codes



3

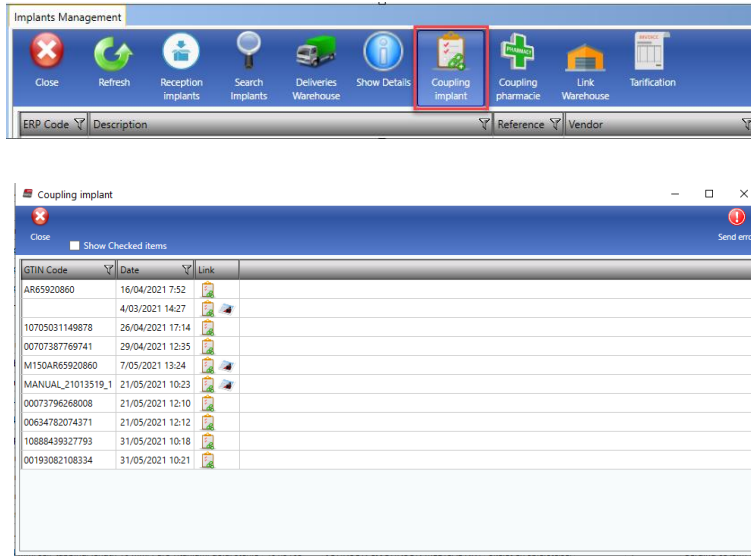


not-known GTIN codes

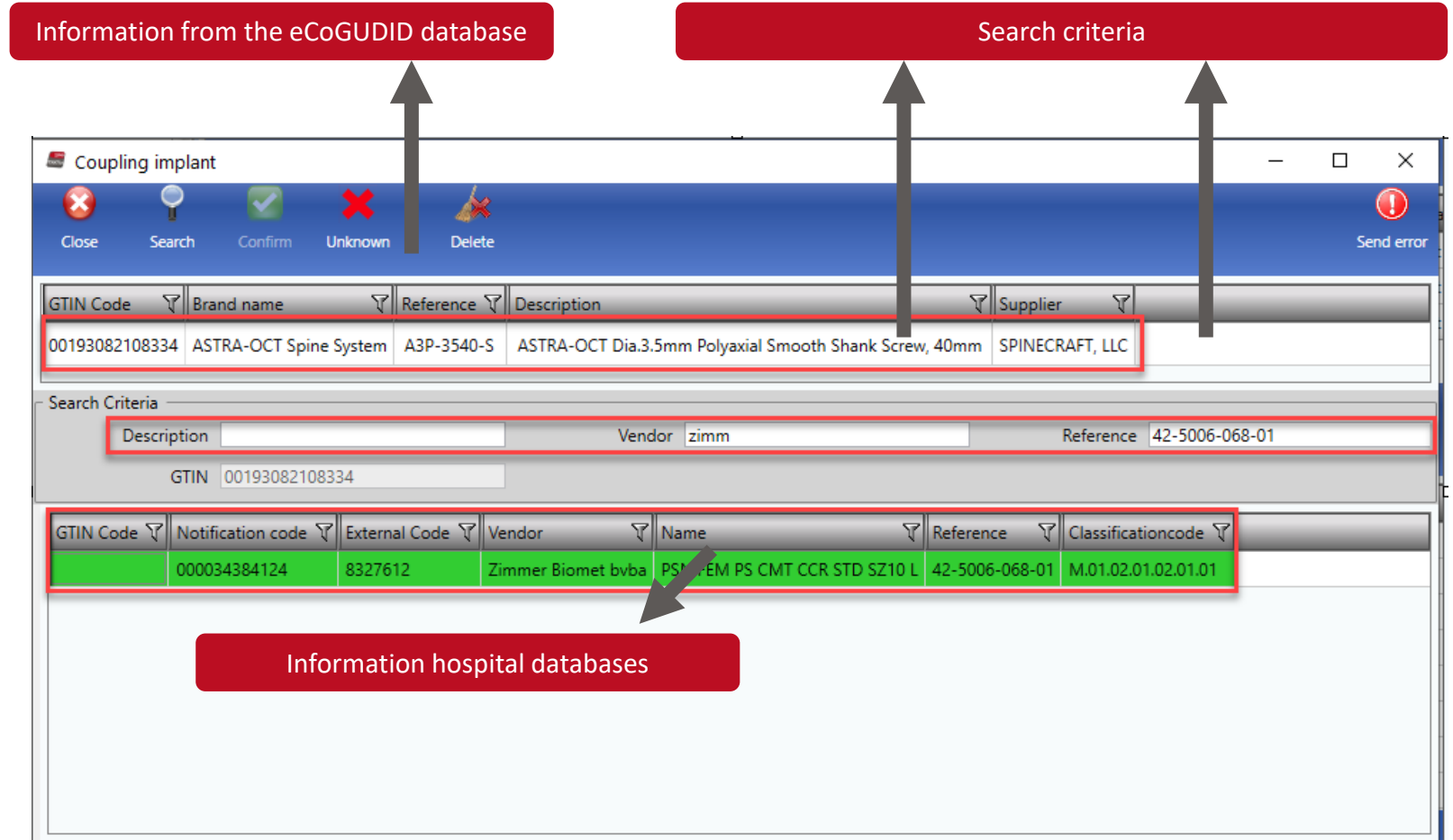
- in eCoMET database
- Automatic picture of the label
- Will be linked
 - Implants
 - Other medical devices

Inventory scanning

Linking implants and medical devices to **known** GTIN codes



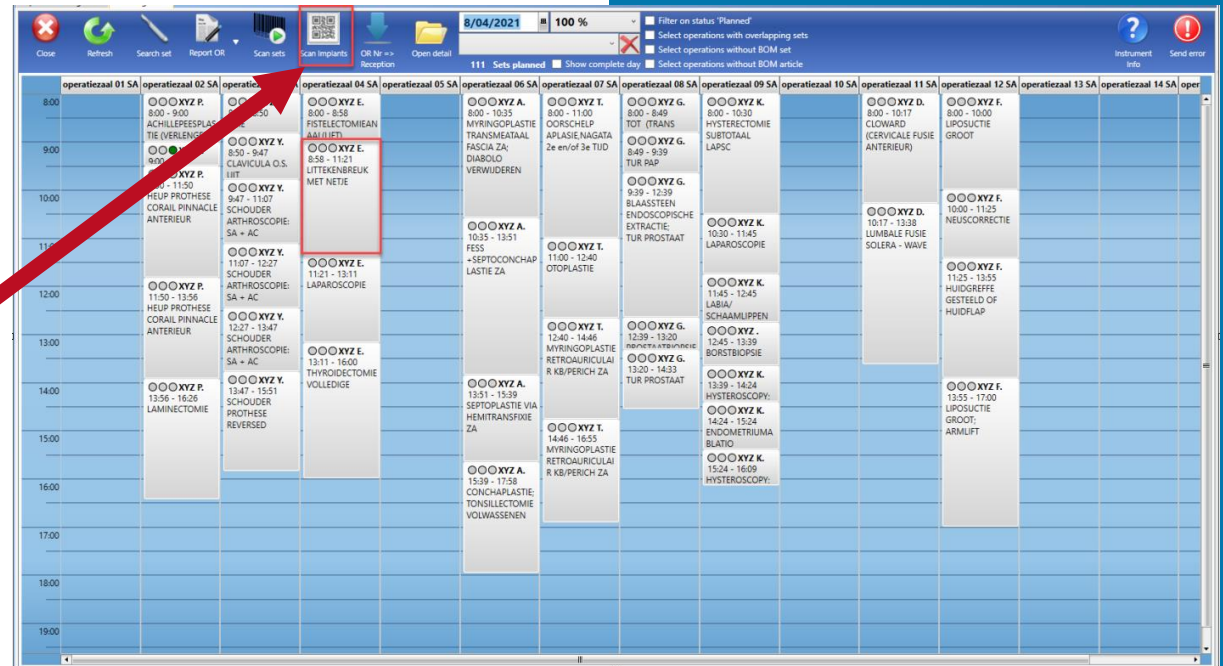
Linking is a one-off: permanently available for the future



Patient use

Step 2: linking to the patient

- eCoMET™ will be linked to the Planning system of the hospital.
- The eCoMET™ planning will be available.
- On each service, the planning of the service for the intervention in question is visible
- Select “Scan implants”.
- Scan the GS1 - HIBCC code of the used devices.



Linking - scanning



1



Already linked GTIN codes

- Implants
- Other medical devices

2



Known but not yet linked GTIN codes

3



not-known GTIN codes

- in eCoMET database
- Automatic picture of the label
- Will be linked
 - Implants
 - Other medical devices

The service (OR, ...) should only scan and possibly take a picture of the label. The links are made afterwards by the responsible service.

Linking - scanning

Step 2: Other codes than GTIN codes



1

Pseudo GTIN

- If a medical device has a different type of scannable code
- Code is registered as a 'PSEUDO' GTIN code
- Linking is identical like a normal GTIN code
- If this device obtain a real GTIN code in the future, it will be added

2

Unknown medical devices in the hospital without a barcode

- F.e. implants in a container without reference, information need to be asked from the distributor
- Special paperless procedure available

Linking - scanning

Unknown medical devices in the hospital without a barcode

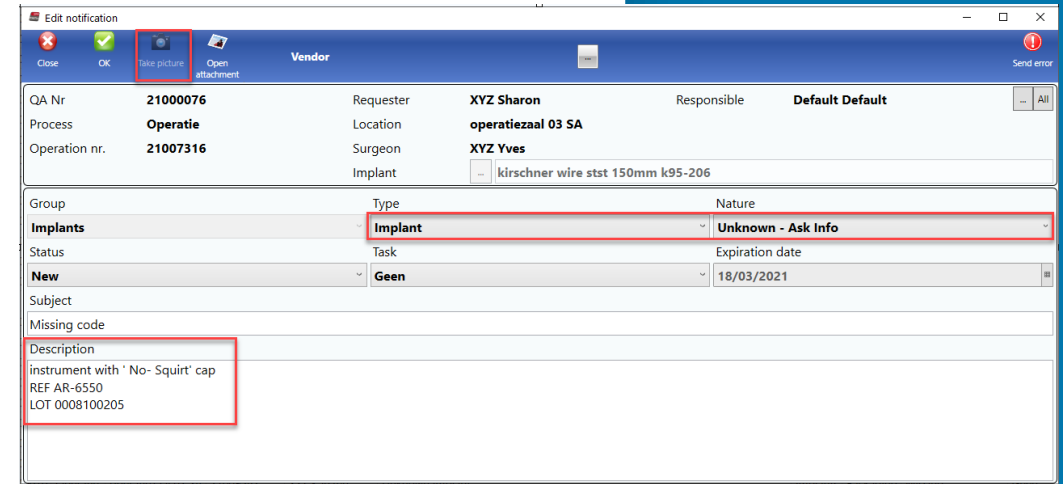
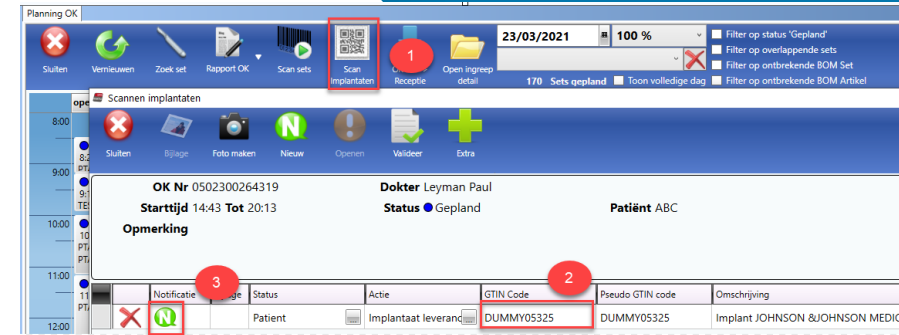


Scanning a 'DUMMY' barcode

- Available barcode for the suppliers who delivers 'unknown' products
- After use of the implants, the correct information must be requested from the supplier
 1. Open 'Scan Implants'
 2. Scan the DUMMY code of the related supplier
 3. Open the 'Notification'

Notification

- Choose the type 'Implant' – Subtype 'Unknown – Ask info'.
- In the description
 - Add useful information (reference, description,....)
- Take a picture with the scanner if necessary



Linking - scanning

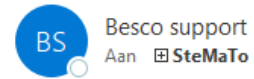
Unknown medical devices in the hospital without a barcode



Result

- E-mail
- Possibly with pictures
- Can be forward to the supplier

New notification implants: Implant Smith &Nepew



Groep: Implants	Type: Verpakking	Aard: Beschadigd
Status: Nieuw	Datum: 22/03/2021 16:12:00	Van: Jos Bessemans
Proces: Operatie	Locatie : operatiezaal 10	Voor:
Implants:	Implant SMITH & NEPHEW NV	
Onderwerp:	2100041	
Omschrijving:	test215 impl 89	



Patient use

Step 2: linking to the patient

Validation – export to different hospital systems

- At the end of the procedure, mandatory validation
 - Doctor
 - electronic validation through badge scanning

Scannen implantaten

Sluiten Bijlage Foto maken Nieuw Openen Valideer Extra Verstuur foutmelding

OK Nr 0502300263780
Starttijd 12:23 Tot 14:52
Opmerking

Dokter Vanoorbeek Jo
Status Gepland
Patiënt ABC

	Notificatie	Bijlage	Status	Actie	GTIN Code	Omschrijving	Opmerking	Vervaldatum	LotNr
	X	N	Patient	Bestellen	04038653899845	Onbekend implantaat	PREMICRON GREEN 4/	24/08/2006	12345ABE
	X	N	Patient	Bestellen	10885862163899	Onbekend implantaat		23/08/2004	12A45ABE
	X	N	Patient	Bestellen	10885425375189	Screw, 2.0x6mm X-drv Locking		15/11/2022	123105BC
	X	N	Patient	Bestellen	00889024306769	RIM-LOCK ""A-CLASS"" ACETABULAR P		20/11/2020	1234577b
	X	N	Patient	50/50	00889024280656	CLS Brevius Stem with Kinectiv, Size 10		20/06/2015	1234567c
	X	N	Patient	Implantaat leveranc	00889024306769	RIM-LOCK ""A-CLASS"" ACETABULAR P		25/11/2021	1234577b

	[Bijlage]	[Status]	[Actie]	[GTIN code]	[Omschrijving]	[Vervaldatum]	[LotNr]	[SerieNr]	[Referentie]
	X	Toegevoegd	Bestellen	04038653899845	Onbekend artikel	24/08/2006	12345ABE		
	X	Toegevoegd	Bestellen	10885862163899	Onbekend artikel	23/08/2004	12A45ABE		

Linking

- E-mail sent to the related services
- Different export formats possible
 - PDF
 - HL7 - .xml message
 -

Prescription

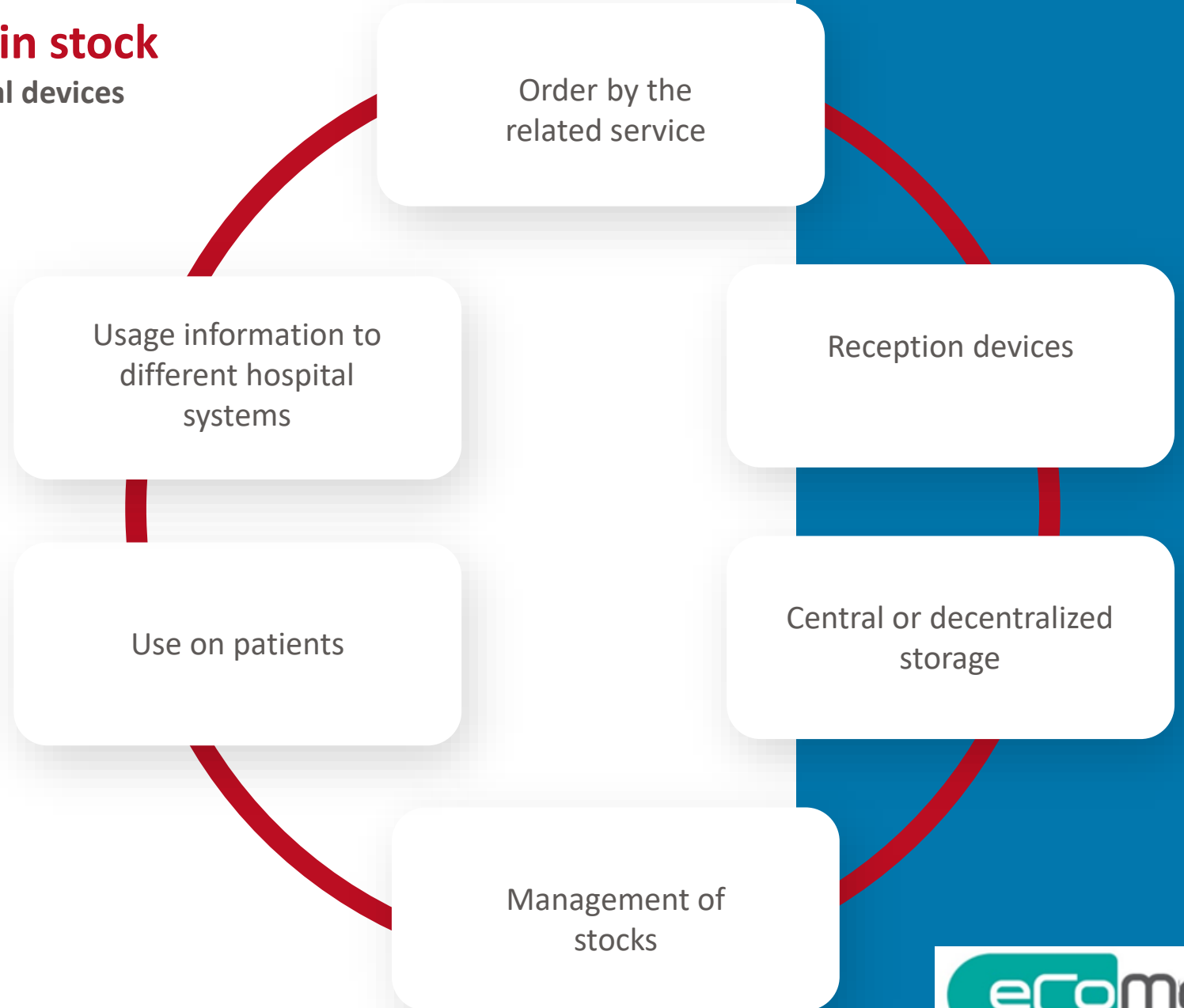
Campus : Sint-Augustinus 300 **OR :** operatiezaal 04 SA
Surgery: 0502300346443 **Date:** 25/03/2023 08:17:00
Method: (SA-5022) HEPATECTOMIE PARTIEEL
Filenr:
Doctor: XYZ 137 Philip
Patient: ABC
Validated by: Broekmans An anbro

Implants

ERPCode	Notificationnumber	Description	Reference	Supplier	Lot	Serialnumber	Expirationdate	Status	Action	Remark	Memo
	000027870573	2.7 mm / 3.5 mm VA-LCP Medial Distal Tibia Plate, 6 holes, left, Sterile, Tan	04.118.005S	JOHNSON & JOHNSON MEDICAL	12443071		25/03/2002	Patient	Order		
	000008267269	Expert TN ø9 cann L315 TAN dblue	04.004.343S	JOHNSON & JOHNSON MEDICAL N.V.	TS18060367		31/05/2021	Patient	Order		
		Unknown Implant		Root	TS18060367		30/05/2021	Patient	Order		
		Unknown Implant		Root	123105BC		15/11/2022	Patient	Order	SBA44PAADA	
8624075	000007802362	12/14 FEM HEAD +0 X 22MM DIA	00-8018-022-02	ZIMMER BIOMET	1234567b		21/03/2002	Patient	Order		
8638323	000050599851	Anexys cancellous bone screw 6.5 x 20	52.34.1107	MATHYS ORTHOPAEDICS BELUX	12345671		21/03/2002	Not Used	Order		YES

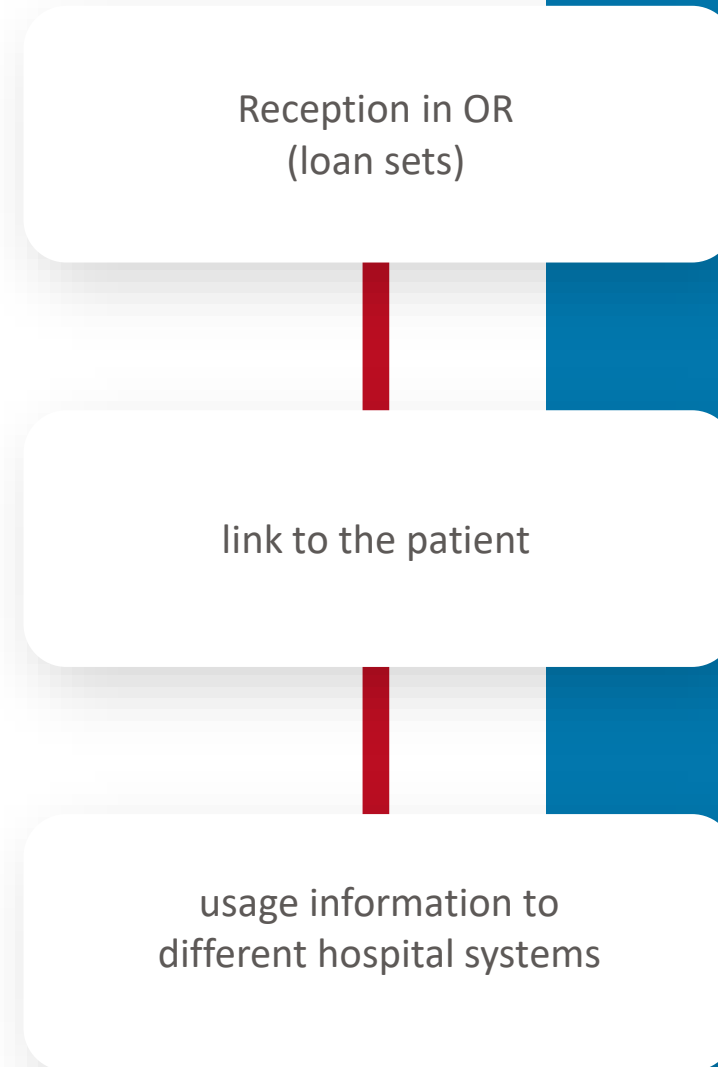
Implants & Medical devices in stock

Step 3: management of the flow of medical devices



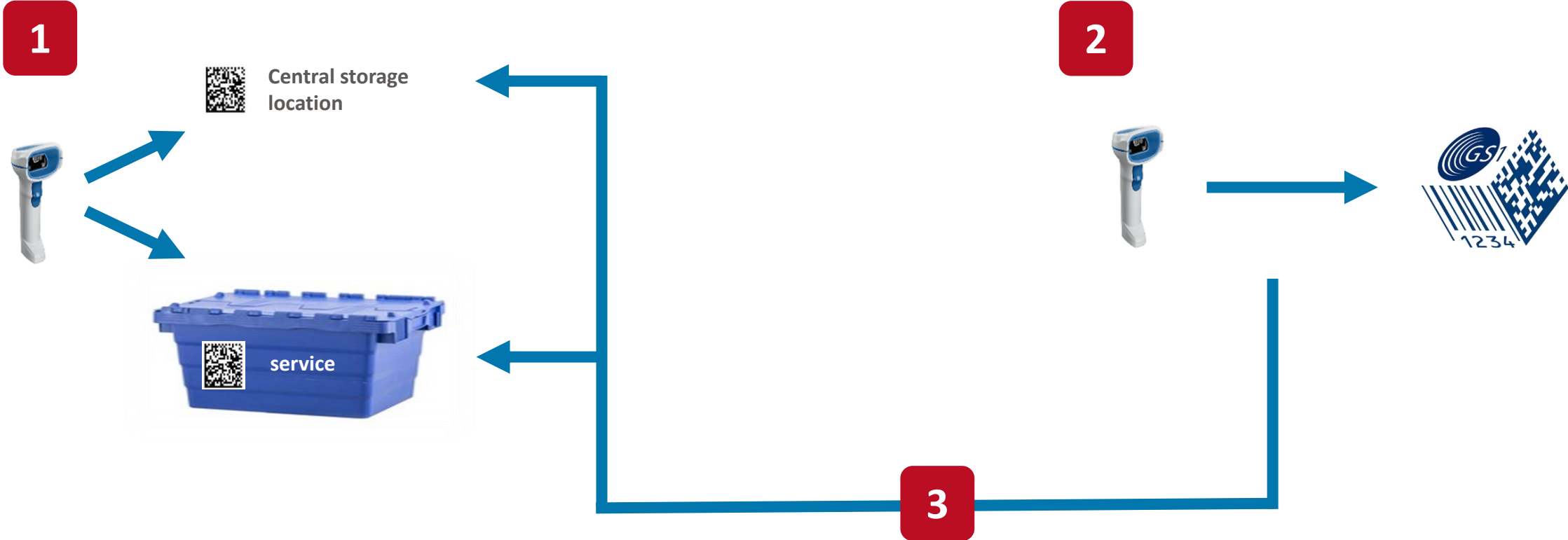
Implants & Medical devices in stock

Step 3: management of the flow of medical devices



Management

Shipping stock for central or decentralized storages



Management

Implants / medical devices assigned to the different services



Navigation

- Campus Salvator
- Campus St.-Ursula
- Campus VJZ
- CSA 1
- Ekkelgarden
- Hasselt Jessa
- Test Stijn
- Test Ziekenhuis
- Transport
- Urgentie

Voorraad implantaten

Sluiten Vernieuwen Ontvangst Implantaten Zoeken Implantaten Leveringen Magazijn Toon Details Koppelen Implantaten

GTIN Code	Notificatie	Omschrijving	Referentie	Leverancier	Specialiteit	Opmerking	Aantal	Locatie
20845854017163	000011738978	1.5MM BONE FIXATION 16MM (2 PACK)	BXS6216	Linivatec Europe BVBA	Skelet en spierstelsel		2	Campus VJZ\VJ-Opslag OK3de\Bergingen\BER1\Kast 28\VJ_OK3_BER1_28_03
00889024280656	000028719918	CLS Brevius Stem with Kinectiv, Size 10	01.00296.100	Zimmer Biomet bvba	Skelet en spierstelsel		1	Campus VJZ\VJ-Opslag OK3de\Bergingen\BER1\Kast 28\VJ_OK3_BER1_28_02
00889024280656	000028719918	CLS Brevius Stem with Kinectiv, Size 10	01.00296.100	Zimmer Biomet bvba	Skelet en spierstelsel		1	Campus VJZ\VJ-Opslag OK3de\Bergingen\BER1\Kast 28\VJ_OK3_BER1_28_03
10845854042229	000046171604	GRAFTMAX BUTTON ALB (ADJUSTABLE LOOP BUTTON)	KS-ALB	Linivatec Europe BVBA	Skelet en spierstelsel		2	Campus VJZ\VJ-Opslag OK3de\Bergingen\BER1\Kast 28\VJ_OK3_BER1_28_04
10845854015018	000011724627	SMARTNAIL 2.4X35 96/4 PLA	532435	Linivatec Europe BVBA	Skelet en spierstelsel		1	Campus VJZ\VJ-Opslag OK3de\Bergingen\BER1\Kast 28\VJ_OK3_BER1_28_03
00889024306769	000007706946	Acetabular Augment, Size 50, 10mm Thick	00-4894-050-10	Zimmer Biomet bvba	Skelet en spierstelsel		1	Campus VJZ\VJ-Opslag OK3de\Bergingen\BER1\Kast 28\VJ_OK3_BER1_28_03
00889024306769	000007706946	Acetabular Augment, Size 50, 10mm Thick	00-4894-050-10	Zimmer Biomet bvba	Skelet en spierstelsel		2	Campus VJZ\VJ-Opslag OK3de\Bergingen\BER1\Kast 28\VJ_OK3_BER1_28_01
00889024276727	000007808302	Biolog delta Head, 12/14, 28 x +3.5	00-8775-028-03	Zimmer Biomet bvba	Skelet en spierstelsel		2	Campus VJZ\VJ-Opslag OK3de\Bergingen\BER1\Kast 28\VJ_OK3_BER1_28_02

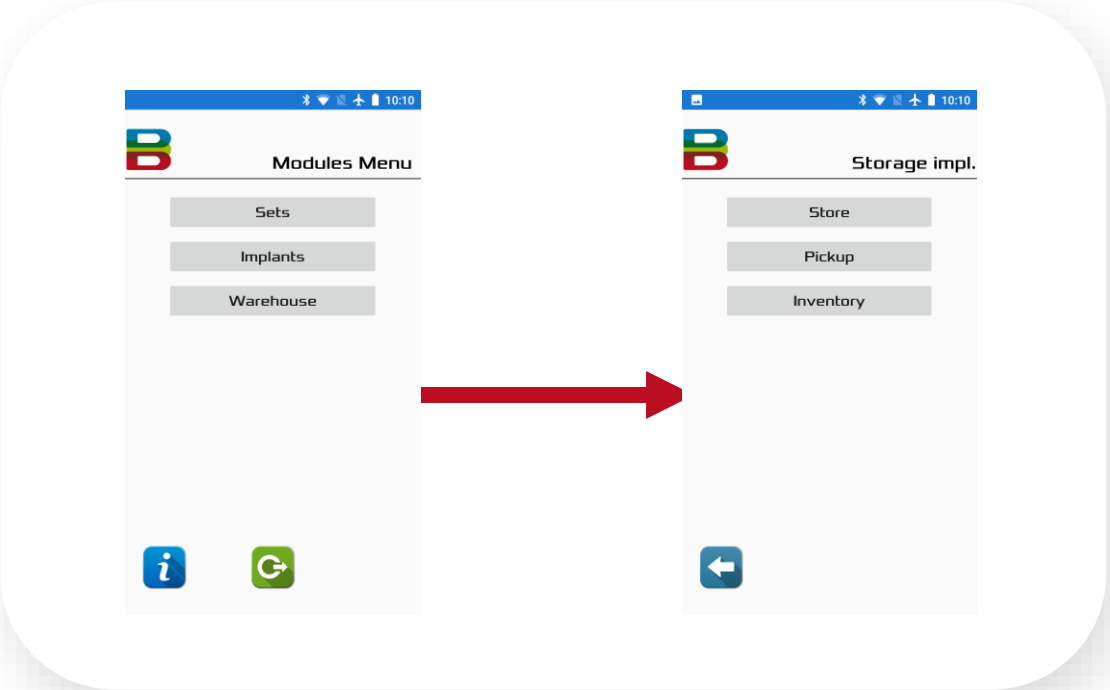
Management

Reception at the services or in central storage

Management via Android scanner



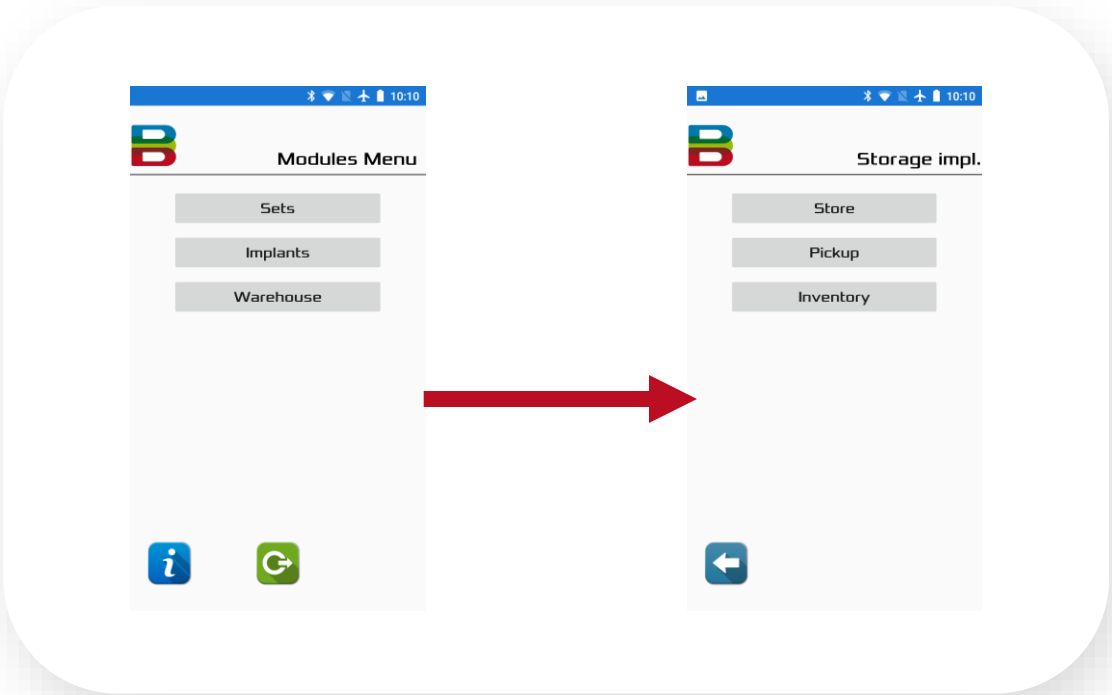
Menu with different functionalities



Management

Storage implants / medical devices

Menu "Store implants"



scan storage location (F.e. OR3_Storage1_CB3_Sh5)



Management

Inventory overview

- Per storage location
 - Hospital site
 - Storage location
 - Detail on lowest level
- Complete overview
 - Type of implant – medical device
 - Batch number
 - Expire date
 - Quantity

Voorraad implantaten

Sluiten Vernieuwen Ontvangst Implantaten Zoeken Implantaten Leveringen Magazijn Toon Details Koppelen Implantaten

GTIN Code	Notificatie	Omschrijving	Referentie	Leverancier	Specialiteit	Opmerking	Aantal	Locatie
20845854017163	000011738978	1.5MM BONE FIXATION 16MM (2 PACK)	BXS6216	Linivatec Europe BVBA	Skelet en spierstelsel		2	Campus VJZ\J-Opslag OK3de\Bergingen\BER1\Kast 28\VJ_OK3_BER1_28_03
00889024280656	000028719918	CLS Brevius Stem with Kinectiv, Size 10	01.00296.100	Zimmer Biomet bvba	Skelet en spierstelsel		1	Campus VJZ\J-Opslag OK3de\Bergingen\BER1\Kast 28\VJ_OK3_BER1_28_02
00889024280656	000028719918	CLS Brevius Stem with Kinectiv, Size 10	01.00296.100	Zimmer Biomet bvba	Skelet en spierstelsel		1	Campus VJZ\J-Opslag OK3de\Bergingen\BER1\Kast 28\VJ_OK3_BER1_28_03
10845854042229	000046171604	GRAFTMAX BUTTON ALB (ADJUSTABLE LOOP BUTTON)	KS-ALB	Linivatec Europe BVBA	Skelet en spierstelsel		2	Campus VJZ\J-Opslag OK3de\Bergingen\BER1\Kast 28\VJ_OK3_BER1_28_04
10845854015018	000011724627	SMARTNAIL 2.4X35 96/4 PLA	532435	Linivatec Europe BVBA	Skelet en spierstelsel		1	Campus VJZ\J-Opslag OK3de\Bergingen\BER1\Kast 28\VJ_OK3_BER1_28_03
00889024306769	000007706946	Acetabular Augment, Size 50, 10mm Thick	00-4894-050-10	Zimmer Biomet bvba	Skelet en spierstelsel		1	Campus VJZ\J-Opslag OK3de\Bergingen\BER1\Kast 28\VJ_OK3_BER1_28_03
00889024306769	000007706946	Acetabular Augment, Size 50, 10mm Thick	00-4894-050-10	Zimmer Biomet bvba	Skelet en spierstelsel		2	Campus VJZ\J-Opslag OK3de\Bergingen\BER1\Kast 28\VJ_OK3_BER1_28_01
00889024276727	000007808302	Biolog delta Head, 12/14, 28 x +3.5	00-8775-028-03	Zimmer Biomet bvba	Skelet en spierstelsel		2	Campus VJZ\J-Opslag OK3de\Bergingen\BER1\Kast 28\VJ_OK3_BER1_28_02

Management & tracing reports

Recall report

- Introduce Batch or serial number
 - Stock
 - Place in storage
 - Patient
 - Date and starting time of the procedure
 - Doctor
 - Patient information
 - Name
 - Date of birth

Opstaan Vernieuwen Rooster Pivot Excel integratie Lijngrafiek Staafgrafiek Voorbeeld afdrukken Grafiek X-as Grafiek Y-as

Lot 1234567b
Serial

Item	St.	Locatie	IngreepDatum	Dokter	Patiënt	AdmitNr	Lotnr.	SerieNr	Vervaldatum
12/14 FEM HEAD +0 X 22MM DIA	1		1/01/2010 0:00:00	Default, Default	ABC		1234567b		21/03/2002 0:00:00
12/14 FEM HEAD +0 X 22MM DIA	1		24/03/2021 11:20:00	XYZ 293, Sara	FirstName LastName;01011982;016651		1234567b		21/03/2002 0:00:00
12/14 FEM HEAD +0 X 22MM DIA	1		15/04/2021 8:00:00	XYZ 92, Karsten	FirstName LastName;01011982;016651	1052411806	1234567b		21/03/2002 0:00:00
12/14 FEM HEAD +0 X 22MM DIA	1		20/05/2021 8:00:00	XYZ 38, Yves	FirstName LastName;01011982;016651	1052465000	1234567b		21/03/2002 0:00:00
12/14 FEM HEAD +0 X 22MM DIA	1		7/05/2021 8:00:00	XYZ 104, Peter	FirstName LastName;01011982;016651	1052522107	1234567b		21/03/2002 0:00:00
12/14 FEM HEAD +0 X 22MM DIA	1		26/04/2021 8:00:00	XYZ 102, Christophe	FirstName LastName;01011982;016651	1052591326	1234567b		21/03/2002 0:00:00
12/14 FEM HEAD +0 X 22MM DIA	1		16/03/2021 11:09:00	Schoovaerts 284, Stijn	FirstName LastName;01011982;016651	1052741830	1234567b		21/03/2002 0:00:00
12/14 FEM HEAD +0 X 22MM DIA	1		31/05/2021 8:00:00	XYZ 197, Natalie	FirstName LastName;01011982;016651	1053376933	1234567b		21/03/2002 0:00:00
12/14 FEM HEAD +0 X 22MM DIA	1		6/04/2021 8:51:00	XYZ 158, Erwin	FirstName LastName;01011982;016651	1053408082	1234567b		21/03/2002 0:00:00
12/14 FEM HEAD +0 X 22MM DIA	1		5/05/2021 8:00:00	XYZ 171, Bart	FirstName LastName;01011982;016651	1053569123	1234567b		21/03/2002 0:00:00
12/14 FEM HEAD +0 X 22MM DIA	1		12/04/2021 8:00:00	XYZ 102, Christophe	FirstName LastName;01011982;016651	1053597777	1234567b		21/03/2002 0:00:00
12/14 FEM HEAD +0 X 22MM DIA	1		6/04/2021 10:31:00	XYZ 158, Erwin	FirstName LastName;01011982;016651	1053600159	1234567b		21/03/2002 0:00:00
12/14 FEM HEAD +0 X 22MM DIA	1		13/04/2021 9:18:00	XYZ 142, Peter	FirstName LastName;01011982;016651	1053603443	1234567b		21/03/2002 0:00:00
12/14 FEM HEAD +0 X 22MM DIA	1		6/04/2021 10:44:00	XYZ 36, Luc	FirstName LastName;01011982;016651	1053633952	1234567b		21/03/2002 0:00:00
12/14 FEM HEAD +0 X 22MM DIA	3		4/05/2021 12:18:00	XYZ 158, Erwin	FirstName LastName;01011982;016651	1053786172	1234567b		21/03/2002 0:00:00
12/14 FEM HEAD +0 X 22MM DIA	1		4/05/2021 9:08:00	XYZ 142, Peter	FirstName LastName;01011982;016651	1053792451	1234567b		21/03/2002 0:00:00
12/14 FEM HEAD +0 X 22MM DIA	1		4/05/2021 11:43:00	XYZ 142, Peter	FirstName LastName;01011982;016651	1053990725	1234567b		21/03/2002 0:00:00
12/14 FEM HEAD +0 X 22MM DIA	1		4/05/2021 11:01:00	XYZ 109, Isabelle	FirstName LastName;01011982;016651	1054022890	1234567b		21/03/2002 0:00:00
12/14 FEM HEAD +0 X 22MM DIA	1		13/04/2021 8:00:00	XYZ 36, Luc	FirstName LastName;01011982;016651	1054054869	1234567b		21/03/2002 0:00:00
12/14 FEM HEAD +0 X 22MM DIA	1		22/04/2021 8:35:00	XYZ 92, Karsten	FirstName LastName;01011982;016651	1054060494	1234567b		21/03/2002 0:00:00

Management & tracing reports

Overview used implants and medical devices

- Select doctor
- List used methods
- Select method
 - How many times these method was used in the selected period
 - Used implants and medical devices
 - % of use

Overview cost implants and medical devices

- Select doctor
- List used methods
- Select method
 - How many times these method was used in the selected period
 - Used implants and medical devices
 - Average cost / implant
 - Average total cost



Startdate: 25/07/2023 Doctor: XYZ 102 Christophe
Method: POLS (AO) O.S. (SA-793312)

1 of 1 | 100% | Find | Next

Overview used implants and articles

Methods (# Used : 12)
POLS (AO) O.S. (SA-793312)

Item	# surgery used in	% surgery used in
Acu-loc 2 VDR Proximal Plate Narrow Right	1	8%
Acu-loc 2 VDR Proximal Plate Standard Right	1	8%
cortexscrew stardrive zelft d2.7 I12mm 202.872	2	16%
corticalisschroef 3.5mm L10 co-3100	1	8%
corticalisschroef 3.5mm L12 co-3120	1	8%
Kirshner .054x6"	1	8%
lkg cortical screw 3.5x10mm col-3100	1	8%
lkg cortical screw 3.5x12mm col-3120	1	8%
lkg cortical screw 3.5x14mm col-3140	1	8%
locking cor screw 2.3x14mm co-t2314	1	8%
locking cort screw 2.3x12mm co-t2312	1	8%
locking cort screw 2.3x18mm co-t2318	2	16%

Startdate: 25/07/2023 Doctor: XYZ 102 Christophe
Method: HEUP: TFNA (SA-793511)

1 of 1 | 150% | Find | Next

Overview costprice implants and articles

Methods (# Used : 2)
HEUP: TFNA (SA-793511)

Item	Average Cost
corail steel z.cem m.collar KA15 3I92505	394,84 €
tfna femoral nail 130° d.11 I.200 04.037.143s	0,00 €
tfna helical blade perf 105mm 04.038.405s	153,76 €

Total Cost : 548,60 €

Management & tracing reports

- Report inventory
 - Total Inventory
 - Per storage location
 - Included batch and serial number and expire date
 - Hospital price

[Hospital]	Locatie	Type	Omschrijving	Referentie
Sint-Augustinus	SA_OK_BER3_4_06	Implant\Skelet en spierstelse\Osteosynthese\Stift\Steinm-Pin ø4.5 L150 SSt	Steinm-Pin ø4.5 L150 SSt	293.450S
Sint-Augustinus	SA_OK_BER3_4_06	Implant\Skelet en spierstelse\Osteosynthese\Stift\Steinm-Pin ø4.5 L150 SSt	Steinm-Pin ø4.5 L150 SSt	293.450S
Sint-Augustinus	SA_OK_BER3_4_07	Implant\Nog te bepalen\tubing arthrosc.patient extens AR-6425	tubing arthrosc.patient extens AR-6425	
Sint-Augustinus	SA_OK_BER3_4_07	Implant\Nog te bepalen\tubing arthrosc.patient extens AR-6425	tubing arthrosc.patient extens AR-6425	
Sint-Augustinus	SA_OK_BER3_4_07	Implant\Skelet en spierstelse\Ligamenten Kraakbeen Andere\Peesimplantaten\JUGGERKNOT 2.9 mm DOUBLE	JUGGERKNOT 2.9 mm DOUBLE LOADED w/ taf	110005096
Sint-Augustinus	SA_OK_BER3_4_07	Implant\Skelet en spierstelse\Ligamenten Kraakbeen Andere\Peesimplantaten\JUGGERKNOT 2.9 mm DOUBLE	JUGGERKNOT 2.9 mm DOUBLE LOADED w/ taf	110005096
Sint-Augustinus	SA_OK_BER3_4_07	Implant\Skelet en spierstelse\Ligamenten Kraakbeen Andere\Peesimplantaten\JUGGERKNOT 2.9 mm DOUBLE	JUGGERKNOT 2.9 mm DOUBLE LOADED w/ taf	110005096
Sint-Augustinus	SA_OK_BER3_4_08	Implant\Nog te bepalen\tubing arthrosc.patient extens AR-6425	tubing arthrosc.patient extens AR-6425	
Sint-Augustinus	SA_OK_BER3_4_08	Implant\Nog te bepalen\tubing arthrosc.patient extens AR-6425	tubing arthrosc.patient extens AR-6425	

Management & tracing

result eCoMET™

Traceability of ALL implants / medical devices

- Applicable to all services
- Simple and easy procedure
- Works immediately after scanning the inventory
 - Even for consignment en loan devices
 - No extra work for entering data

Huge gain of time

Less mistakes

A permanent overview of all stocks, including consignment goods



Partner in SPD software and Implants management software

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