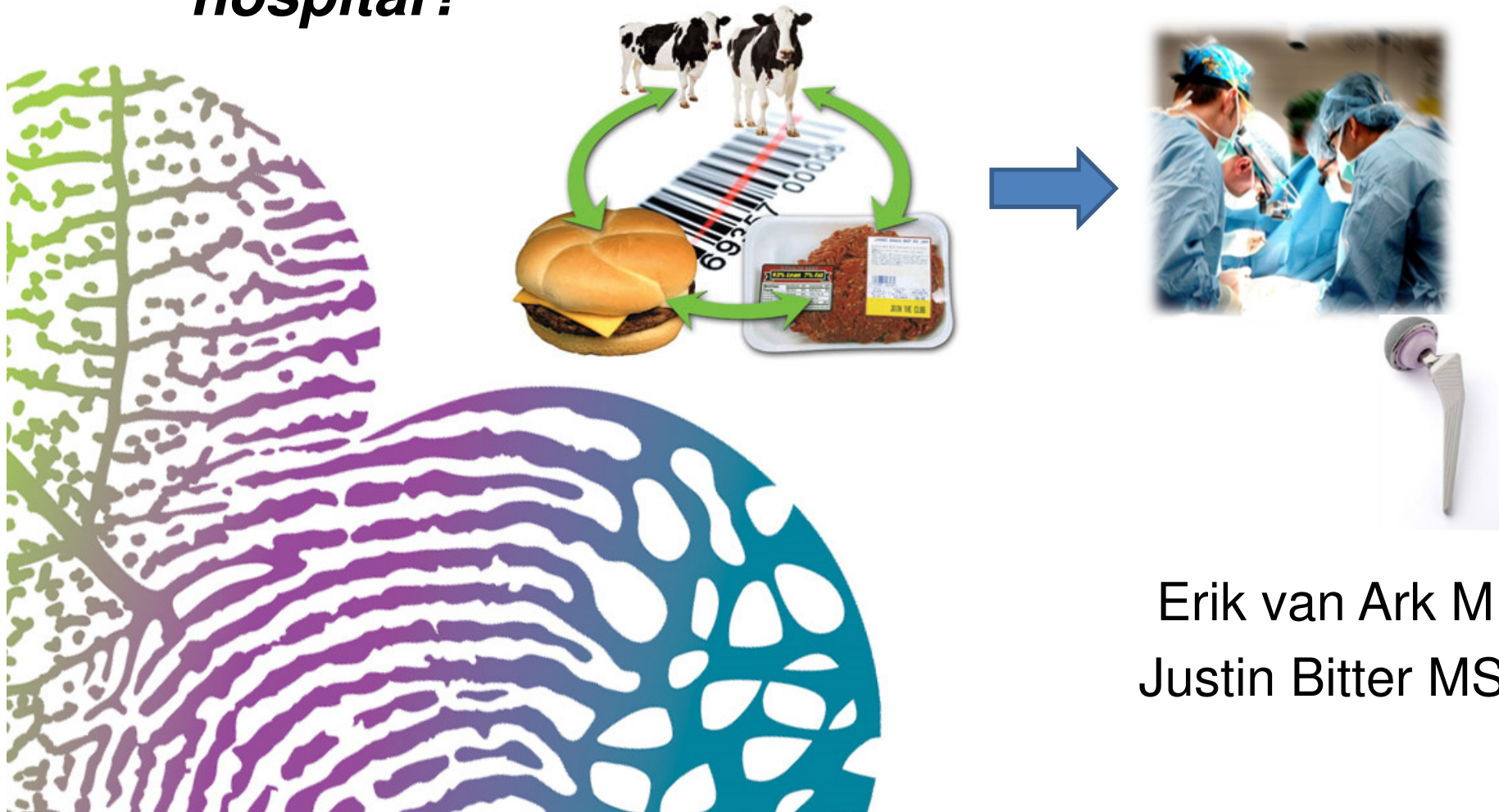




Global GS1 Healthcare Conference Copenhagen, 21 – 23 October 2014



How to implement GS1-traceability in a hospital?



Erik van Ark MD
Justin Bitter MSc

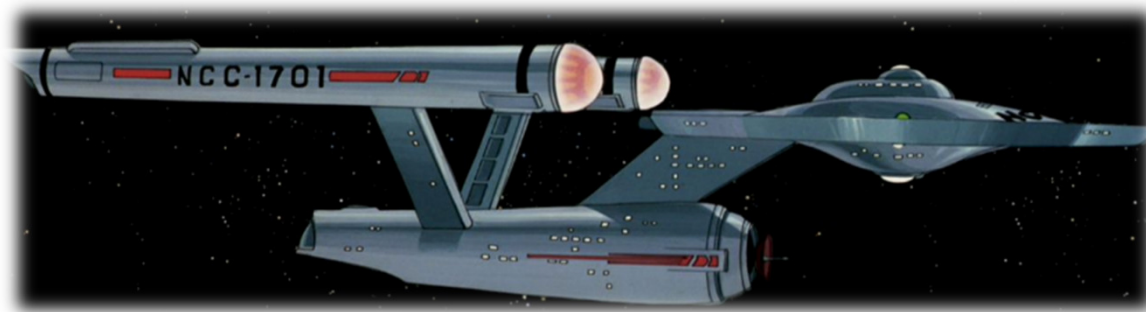
Bernhoven hospital, the Netherlands



Erik van Ark, MD



- Anesthesiologist at Bernhoven Hospital, the Netherlands
- Executive director of the medical staff
- Chairman of the OR in a dual management system in which the doctors are in the lead.
- Innovative: “*To Boldly Go Where No Man Has Gone Before*”



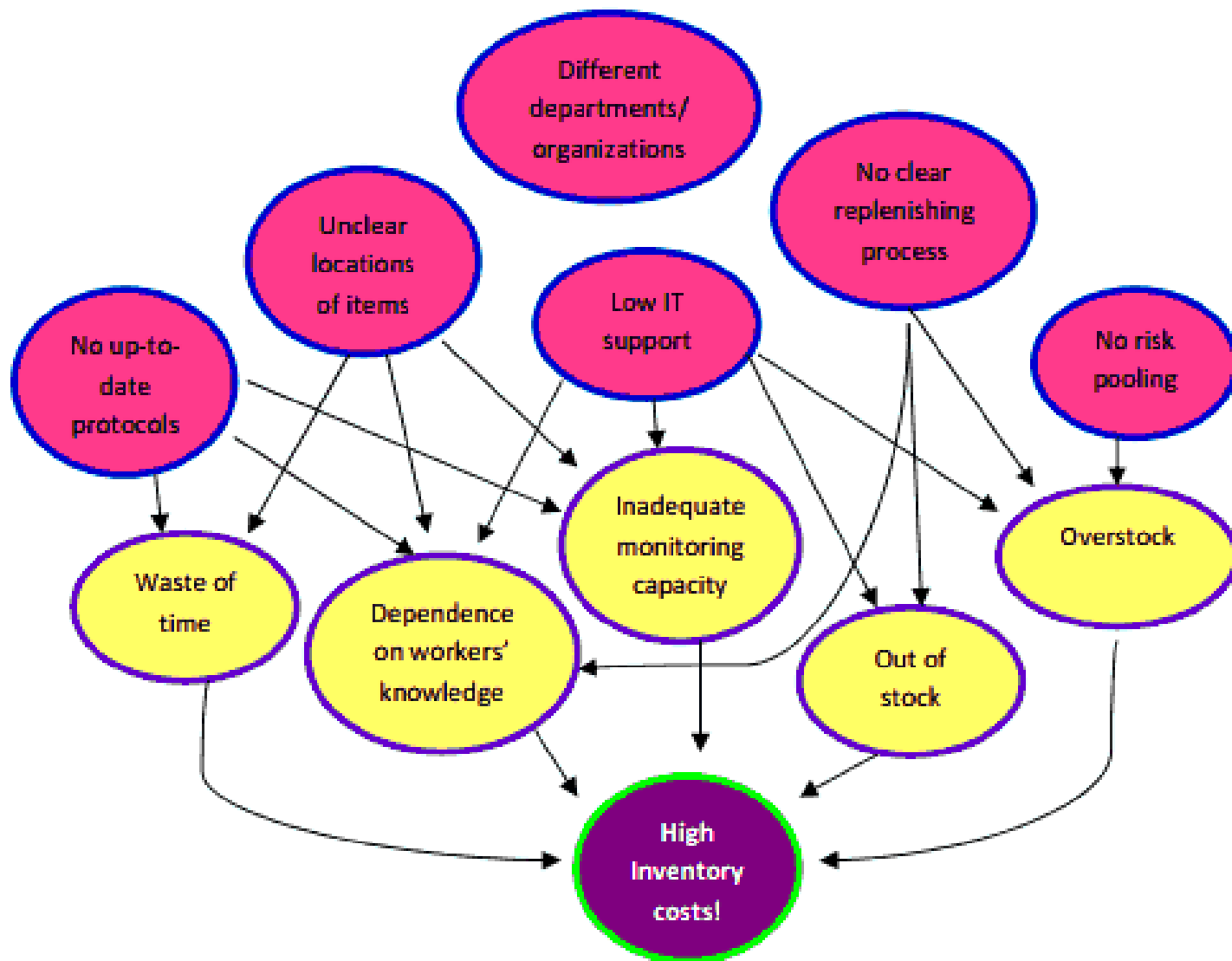
Justin Bitter, MSc



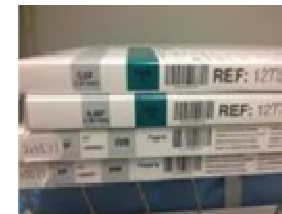
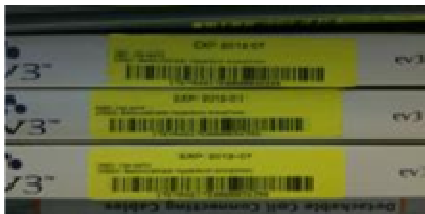
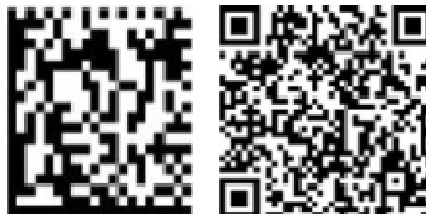
- Manager OR at Bernhoven Hospital, the Netherlands
- Chairman of the Dutch GS1 focusgroup traceability
- Member of the GS1 Healthcare Leadership Team since July 2014
- Innovative: *“Barcodes are not rocket science”*



Baseline Bernhoven..



Barcodes

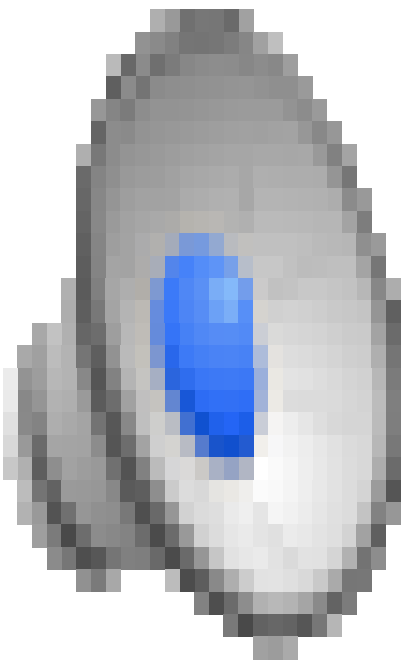




Traditional
thinking

Thinking
outside
the box



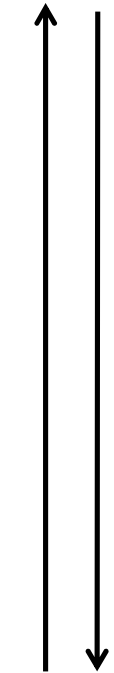


Bernhoven is member of GS1 Netherlands

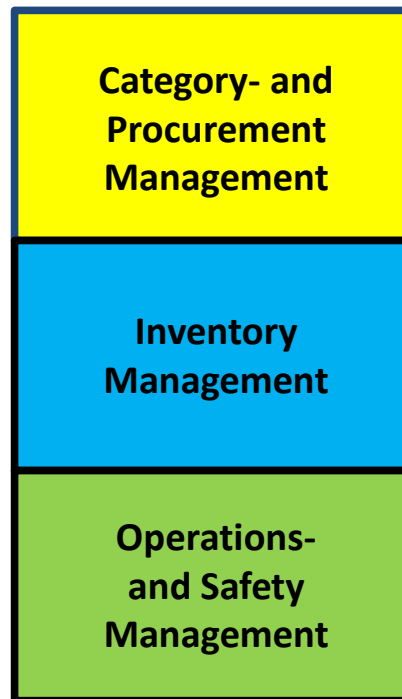


Company Prefix: 871883693

product



order



GTIN

GTIN - GLN

GTIN - GLN - GSRN

8718836930195	OR 1
8718836930201	OR 2
8718836930218	OR 3
8718836930225	OR 4
8718836930232	OR 5
8718836930249	OR 6
8718836930256	OR 7
8718836930263	OR 8
8718836930270	OR 9



GSTH audit GS1 GO: 10th October 2014



AUDIT INFORMATION

Objective	Audit the Bernhoven O.R. department to assess compliance to the GS1 Global Traceability Standard for Healthcare (GTSH) utilizing the Global Traceability Conformance (GTC) framework (Issue 1, March 2009)
Scope	Medical Device Products, specifically implants and sterile disposables. From receipt into OR > OR Logistics process > Patient record; supported by OR Inventory Management System
Control Points Audited	1.3-1.5, 2.1, 2.3, 3.1-3.4, 3.7, 4.1, 4.3, 4.4, 4.6, 4.7, 4.9-4.11, 5.2-5.5, 5.11-5.14, 6.10-6.11, 6.14, 6.17-6.20, 6.22-6.23, 6.25, 6.27, 6.29-6.30, 7.1-7.6, 8.1-8.4, 9.1-9.3, 10.1-10.3, 10.8, 11.1-11.2, 12.1, 12.3.
Audit Place	Bernhoven Hospital, Uden, Netherlands
Audit Date	Friday 10 th October 2014
Reference documents (Audit Criteria)	GTSH Issue 1.2.0, Oct-2013 Global Traceability Conformance (GTC) framework (Issue 1, March

vrijdag 20 februari 2015

Dealing with variation

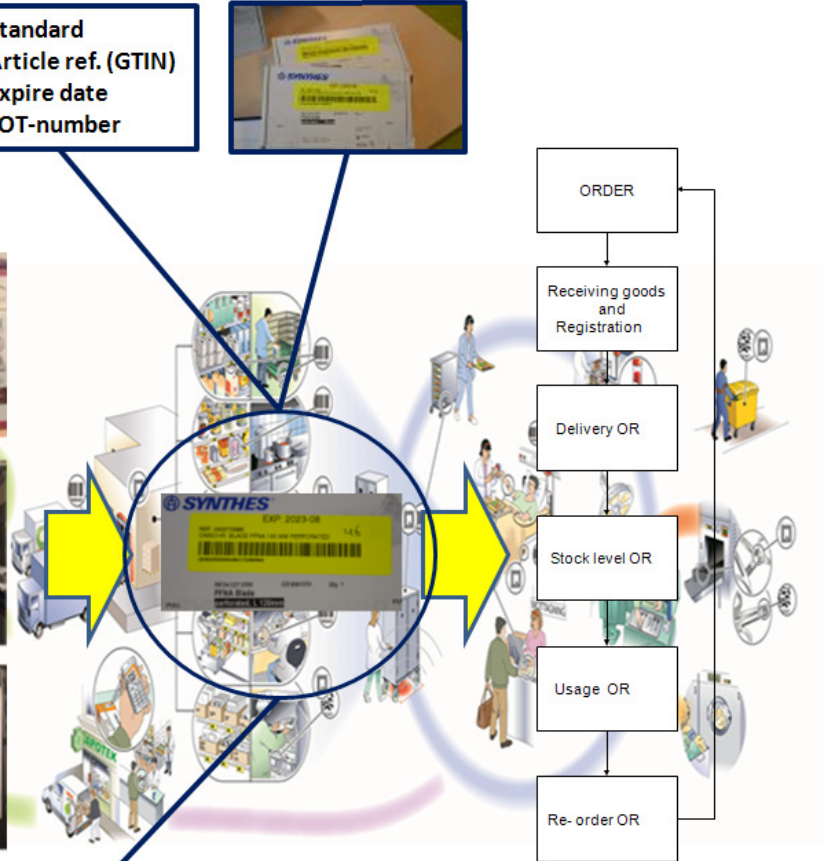


- GS1-standard**
- Article ref. (GTIN)
 - Expire date
 - LOT-number



Suppliers

- Barcode:**
- GS1-standard
 - HIBC -> GS1-standard
 - Manufacturer -> GS1-standard
 - Manually -> GS1-standard



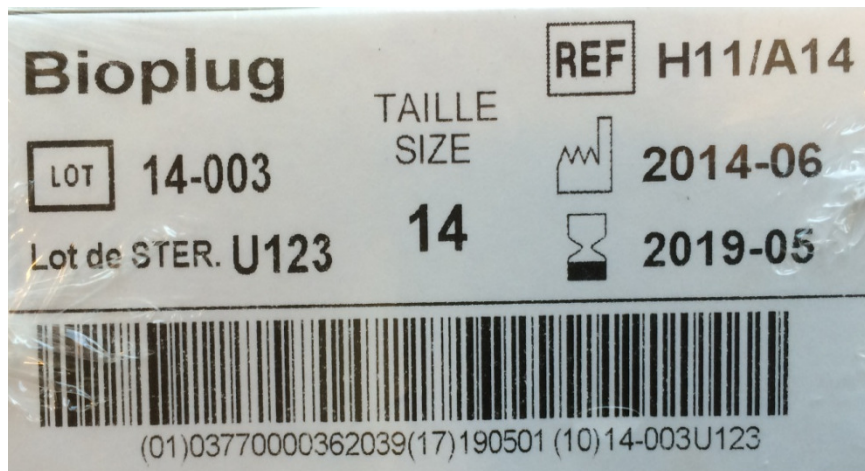
Hospital/Private Clinic



Implants with GS1-128 barcode



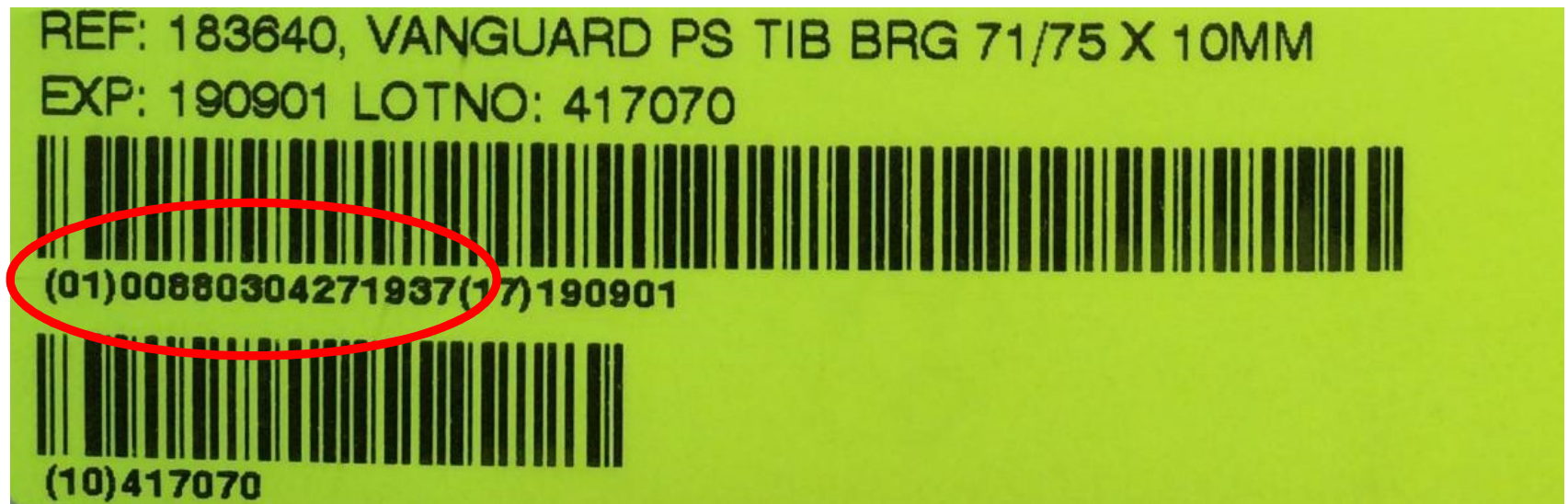
Scanning barcodes without relabeling



Implants with damaged barcode



Relabeling barcode with GTIN of company



Implants not GS1-128 compliant

REF: 12763026, HEUPSTEEL SP CCD 126 L3

EXP: 190701 LOTNO: 1405203523

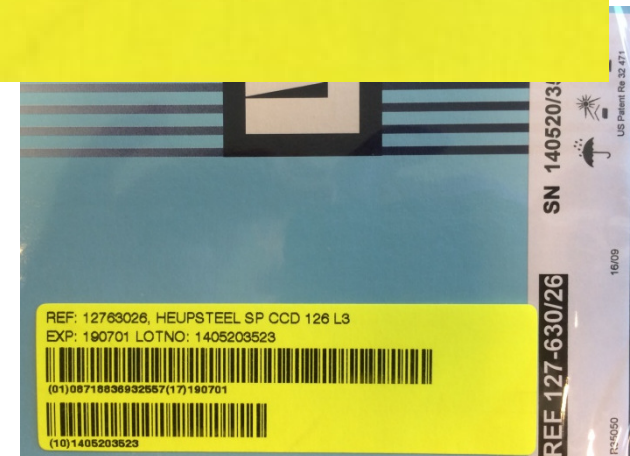


(01)08718836932557(17)190701

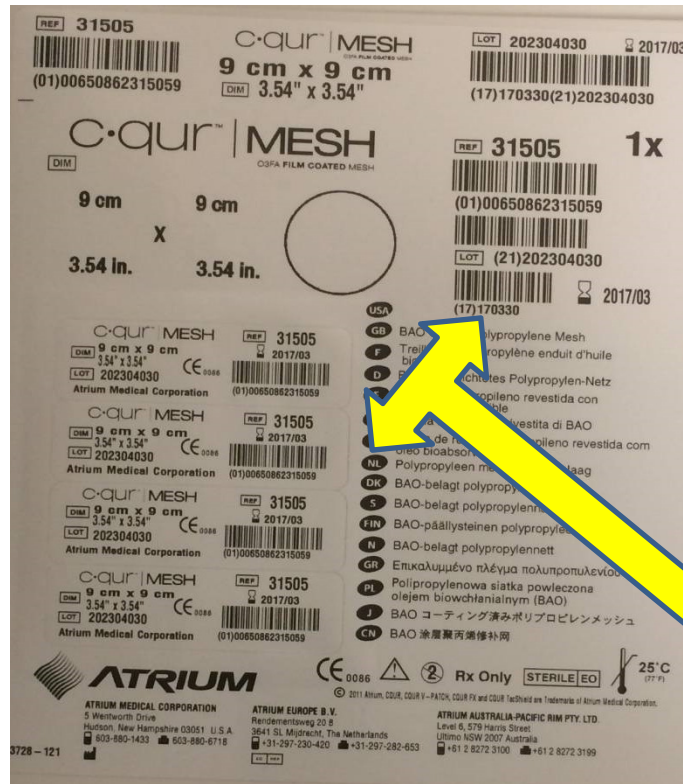


(10)1405203523

Relabeling to GS1-128
barcode by generating own
GTIN



Call for standardization of barcodes





Position Paper (II) Healthcare Provider Advisory Council *Implementation in hospitals hindered by bar code symbol issues*

Bar Code Symbology

The familiar symbology (format) of bar codes, particularly in the retail environment, is that of the '1D' or 'linear' type, vertical black lines and white spaces (Figure 5), but over recent years another generation of bar code symbology is being increasingly used, the "two-dimensional (2D) or "matrix" type symbology, e.g. GS1 DataMatrix (Figure 3).



(01) 10222222333334(17) 091231(10) A1345B(21) 1234

Figure 5



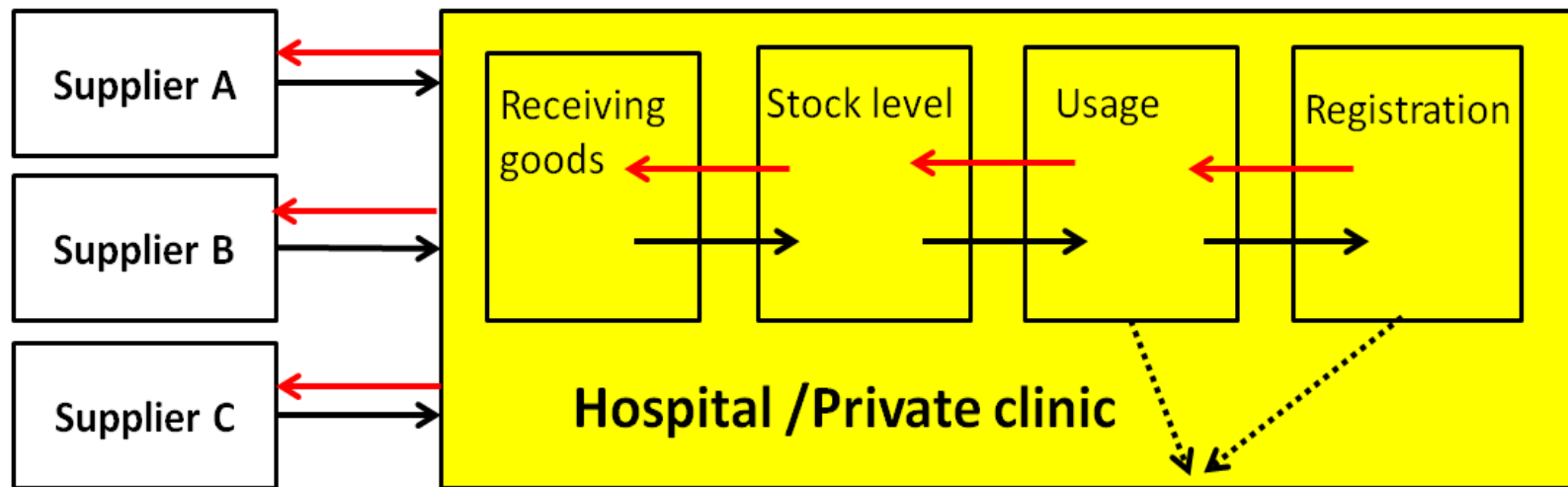
(01)07612345678900(17)100503
(10)AC3453G3

Figure 6

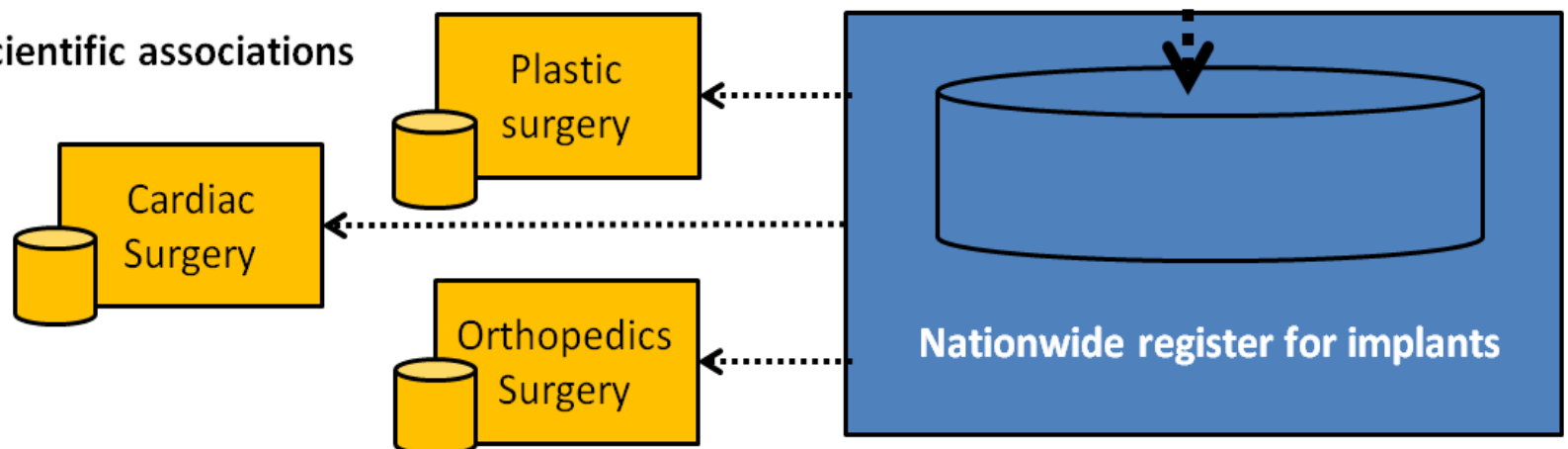
These two symbologies
contain the same data.

<http://www.gs1.org/sites/default/files/docs/healthcare/20130725%20HPAC%20Position%20Paper%20Bar%20Code%20Issues.pdf>

Nationwide register for implants



Scientific associations





Nationwide register for implants

- (8018)871883693064626937(8008)140801150100(01)05050474558199(17)190300(10)M1203005
- (8018)871883693064626937 Company Prefix/Patient
- (8008)140801150100 Year/Month/Day/Hour/Minute/Second
- (01)05050474558199 Global Trade Item Number
- (17)190300 Expire date
- (10)M1203005 Lot number

GS1 focusgroup traceability in Healthcare



Agreements on the use of GS1 standards

Next steps (2015) in Bernhoven Hospital:



High risk medication



Instrument trays



Thank you for your attention!!

