



The Global Language of Business

# Updates on IHE UBP, IHE Netherlands, GS1 Supply

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25 June 2018



# IHE UBP Where do we stand?

# Connectathon/weekconnect 2018



- Presentation MMA and UBP  
“Barcodes: tracing implants and medication during the clinical pathway of patients”
- 2 repetitive sessions
- Introduction Weekconnect/Connectathon:  
<https://abeautifulday.wetransfer.com/downloads/1fe1dd855fa3f4ff36bcc30ceed6914d20180501124623/231eba34dc04597b050a50c300784eb420180501124623/f98bc0>
- Impression Weekconnect:  
[https://www.youtube.com/watch?v=9VKZ7Pw\\_oNQ&feature=youtu.be](https://www.youtube.com/watch?v=9VKZ7Pw_oNQ&feature=youtu.be)

# IHE

Integrating  
the Healthcare  
Enterprise

## It's a joint effort!



ascom



Min. of Health Information Board outcome goals:

1. Medication safety
2. Patient Empowerment
3. Patient Care transfer
4. Single registry and reuse of data

Barcode: 0108712345670206172706208017101010101010101080180123456789012345678 Decode

Example: 01087123456702061727062080171010101010101010101080180123456789012345678

Care Provider 

big: 12345988912

name: Lucas van der Spiegel

Patient Lookup @EPD

id: 1587965423

name: Piet Jansen

birthDate: 1942-11-15

## FHIR json

```

"resourceType": "Medication",
"id": "medexample015",
"meta": {
  "versionId": "c95ecfb6-a491-4c17-949f-d0bf93c26d19",
  "lastUpdated": "2018-03-28T12:57:05.053+00:00"
},
"contained": [
  {
    "resourceType": "Organization",
    "id": "org2",
    "name": "Gene Inc"
  },
  {
    "resourceType": "Substance",
    "id": "sub04",
    "code": {
      "coding": [
        {
          "system": "http://snomed.info/sct",
          "code": "386906001",
          "display": "Capecitabine (substance)"
        }
      ]
    }
  }
],
"code": {
  "coding": [
    {
      "system": "http://www.nlm.nih.gov/research/umls/rxnorm",
      "code": "213293",
      "display": "Capecitabine 500mg oral tablet (Xeloda)"
    }
  ]
}

```

Device	Lookup @EPD	Lookup @GS1
1	1	1
2	1	1
3	1	1
4	1	1
5	1	1
6	1	1
7	1	1
8	1	1
9	1	1
10	1	1
11	1	1
12	1	1
13	1	1
14	1	1
15	1	1
16	1	1
17	1	1
18	1	1
19	1	1
20	1	1
21	1	1
22	1	1
23	1	1
24	1	1
25	1	1
26	1	1
27	1	1
28	1	1
29	1	1
30	1	1
31	1	1
32	1	1
33	1	1
34	1	1
35	1	1
36	1	1
37	1	1
38	1	1
39	1	1
40	1	1
41	1	1
42	1	1
43	1	1
44	1	1
45	1	1
46	1	1
47	1	1
48	1	1
49	1	1
50	1	1
51	1	1
52	1	1
53	1	1
54	1	1
55	1	1
56	1	1
57	1	1
58	1	1
59	1	1
60	1	1
61	1	1
62	1	1
63	1	1
64	1	1
65	1	1
66	1	1
67	1	1
68	1	1
69	1	1
70	1	1
71	1	1
72	1	1
73	1	1
74	1	1
75	1	1
76	1	1
77	1	1
78	1	1
79	1	1
80	1	1
81	1	1
82	1	1
83	1	1
84	1	1
85	1	1
86	1	1
87	1	1
88	1	1
89	1	1
90	1	1
91	1	1
92	1	1
93	1	1
94	1	1
95	1	1
96	1	1
97	1	1
98	1	1
99	1	1
100	1	1

udi:

{01}00844588003288{17}141120{10}7654321  
D{21}10987654d321

device: Coated femoral stem prosthesis,  
modular

manufacturer: Acme Devices, Inc

model: PM/Octane 2014

### Create Implant Notification

Medication	Lookup @EPD	Lookup @GS1
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medication: Capecitabine 500mg oral tablet (Xeloda)

Create Statement

## Create Administration

# A patient's story in the hospital



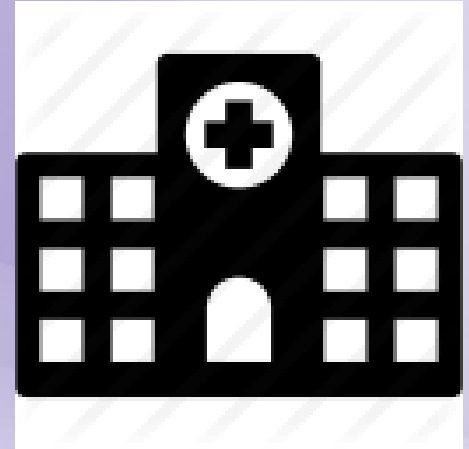
Procedure of hip replacement



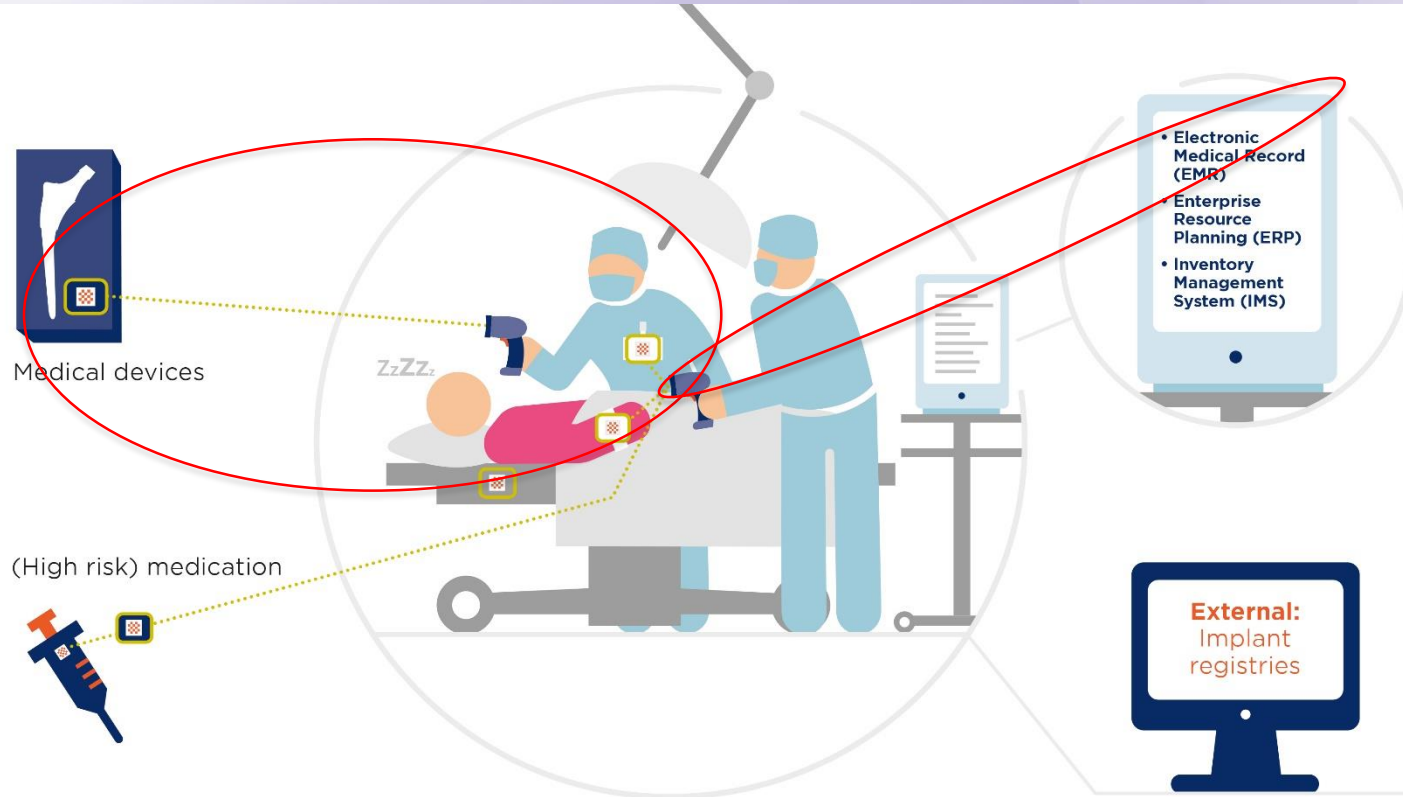
Administration of high risk medication



Administration of medication



## Patient in surgery, OR






Erik Zwarter, Information Manager at Erasmus MC

Scan

1. Implant Id
2. Care Provider Id
3. Patient Id

Activate 'UBP'



**Hoeijmakers, J.K.**  
05-03-1969 (49 jr)  
8949613  
0607040704

Favorieten **Dossier**

Voorblad OK

Operatiescherm

Historie

Screening

Formulieren

SEH dossier


Radiologieonderzoeken

OK beelden

**EPD Dashboard**

Operaties

Naslag

**Hoeijmakers, J.K.**  
8949613  
05-03-1969

Operatiehistorie

Operatie

11-04-2018 : [...]

Wachttijst

Planning

**Peroperatief**

Operatie

Datum operatie

Operatiekamer

Aanvrager

Operateur

Behandeling

Zijde

Opmerking

Prioriteit

Hoofd anesthesietechniek

Sub anesthesietechniek

Ligging

ASA

Postop. bestemming

Traject

Operatiememo

Soort operatie

Operatietijden

Pre-medicatie

Besteld

Op holding

Start locoregionaal

Einde locoregionaal

Wijzigen

Toevoegen

Verwijderen

STOP

PO WI

# 123

Wachtlijst

Algemene gegevens

Verrichtingen

Auth.

Cluster

Hfd.

1ste operateur

2de operateur

#

Verr.code

Zijde

Omschrijving

POWI verrichting?

POWI

Overige operateurs

Naam

Spec.

Artstype

Anesthesiologen

Naam

Artstype

Aflos

Start

Eind

Teamleden

Naam

Functie

Aflos

Start

Eind

Artikelen

Alles

Apparatuur

Humane Implantaten

**Implantaten**

Artikelnr.

Chargenr.

Houdbaarheidsdatum

Groep

#

Omschrijving

Opmerking

Netregistratie

Omschrijving

ID

Klaargezet

Opmerking

Reparatieformulier

Aantal art. in net

Detail

Opname koppelen

Opname inzien

Overige acties

Opslaan

OK

Annuleren

# Dutch Arthroplasty Register

April 17, 2018 – Chris van der Togt  
managing director LROI

## What is the LROI?

1. An arthroplasty registry
2. 100% of the hospitals in the Netherlands participate
3. Completeness: 99% hip, 99% knee, 94% shoulder, 92% ankle and 88% elbow



[ACTUEEL](#)
[OVER DE LROI](#)
[INVOERDERS](#)
[PATIËNTEN](#)
[PUBLICATIES](#)
[WETENSCHAP](#)
[DOWNLOADS](#)

### Aantal registraties op dit moment



Totaal **637.886**



Heup **351.069**



Knie **273.400**



Enkel **578**



Schouder **11.788**



Elleboog **754**



Pols **91**



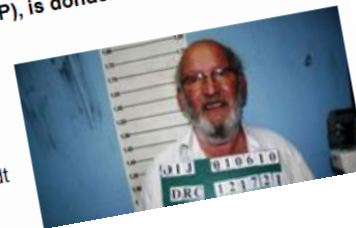
Vinger/duim **206**



# LROI

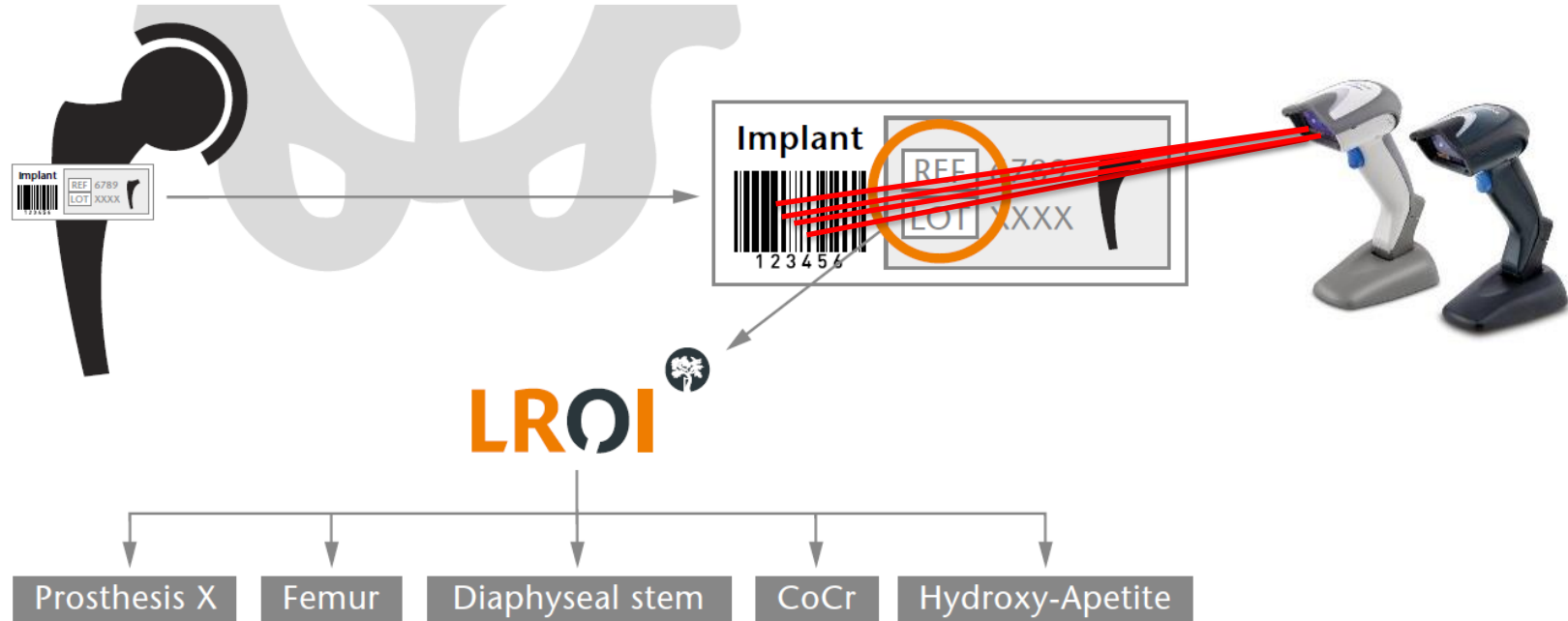
## Why do we register?

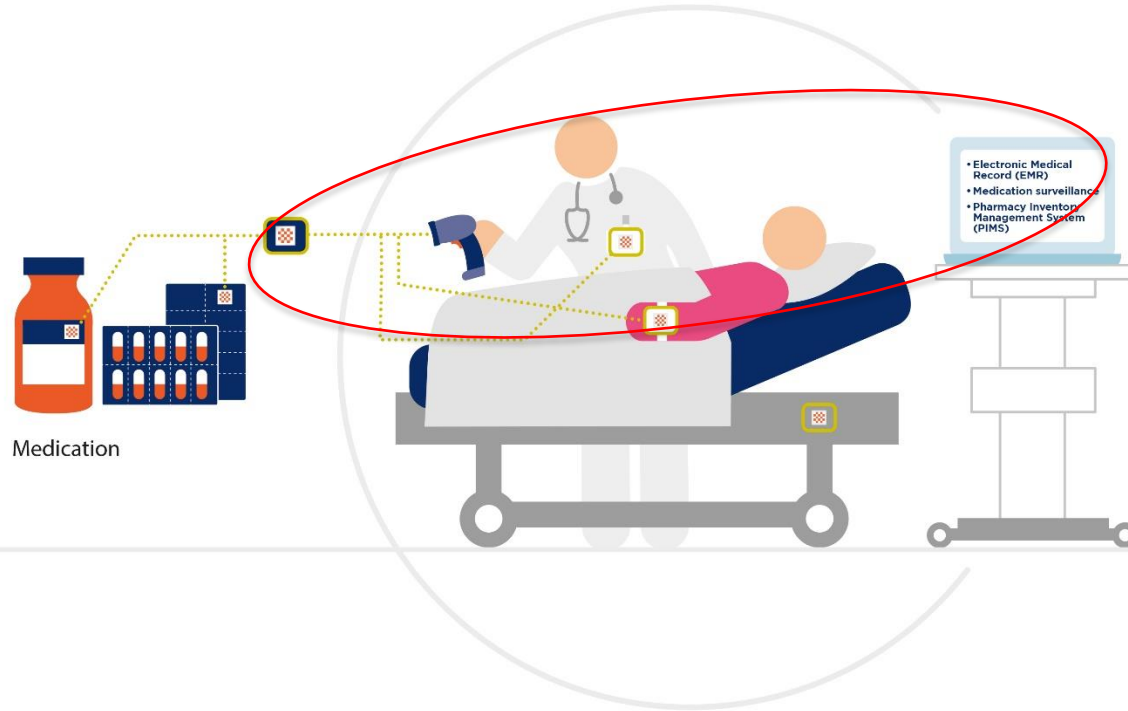
1. Insight in patient related outcomes, and quality of care for all joint implants used in the Netherlands
2. Traceability of joint implants



# How/what do we register?

(patient, procedure, implant characteristics)





# Verification of from home medication during hospitalization

- Trend in Dutch hospitals
- Preferably use the same chronic medication as at home
- Hospital pharmacist is responsible for all medications administered in the hospital
- Medications from home are not "checked" by the hospital pharmacy:
  - Not checked on right medication
  - Not checked on expiration date



# Performed checks in MedEye after scanning GS1 barcode

- Correct GS1 barcode: 'legal medication'
- Medication is the same as ordered
- Medication did not pass expiration date

# Next Steps

# Next steps



- Get more parties involved: hospitals, IT-vendors
- Create awareness on national and international level
- Get UBP and MMA tested in Rennes 2019
- Encourage hospitals to demand the use of UBP in their IT-systems
- Be the 28th IHE profile endorsed by the EU Commission  
<https://www.ihe-europe.net/ihe-in-europe/EU-policies>

# Exchange IHE Pharm/IHE NL Steering Committee



# Agenda IHE NL Steering Committee



1. Incoming e-mail
2. IHE 'Why' – *Tie Tjee (IHE NL Vendor chair)*
3. IHE & HL7 FHIR – *Ewout Kramer (FHIR) & Robert Breas (Medicalphit)*
4. Work processes – *Frans van Tilburg (M&I/Partners)*
5. Feedback
  - HIMSS Barcelona/ Sitges, 27 t/m 30 May 2018 – *Tie*
  - Conference 'Information Architecture in Healthcare', 14 juni 2018 – *Onno Gabel (IHE NL Secretary)*
6. Future - Board
  - Contact IHE at Ministry of Health Dept -*Tie*
  - IHE & RSO Jaarcongres, 2 november 2018 – *Evert Sanders (IHE Provider Chair)*
7. Adjourn and subjects for next meeting

# GS1 EDI for Supply Chain



# What is GS1 EDI?



- Internationally harmonised messages for Healthcare
- Video
- Healthcare EDI Implementation Kit

Business Document Specification

Order

Issue date: 2015-06-25  
Version: 1.1  
GS1 XML message: GS1 XML Order  
EANCOM message: EANCOM ORDERS\_Purchase order

Business document structure	Usage	Business term description
<b>Order</b>		This business document is used when a buyer sends an order to a supplier.
<b>ORDER HEADER</b>	1..1	<b>Comment:</b> The class is used to specify general information about the order. The class must always be used.
<b>Document type, code</b>	1..1	<b>Definition:</b> Code indicating the type of the document. <b>Comment:</b> Identifies the kind of purchase order, enabling the recipient of the order to determine the appropriate processing. Using Rush order must be agreed between the parties. GS1 XML Order: Allowed code values are specified in GS1 XML Code List Order/TypeCode. EANCOM ORDERS: Allowed code values are specified in EANCOM Code List 1001 Document name code. <b>Applicable types</b> Order Document/message by means of which a buyer initiates a transaction with a seller involving the supply of goods or services as specified, according to conditions set out in an offer, or otherwise known to the buyer. Blanket order Usage of document/message for general order purposes with later split into quantities and delivery dates and maybe delivery locations. Rush order Document/message for urgent ordering. Call off order Document/message to provide split quantities and delivery dates referring to a previous blanket order. Consignment order Order to deliver goods into stock with agreement on payment when goods are sold out of this stock.
<b>Document identification</b>	1..1	<b>Definition:</b> The unique identification of the business document. <b>Comment:</b> In order to guarantee a globally unique identity, a GDTI (Global Document Type Identifier) is an alphanumeric string including from 14 up to 30 digits. Each new order must be assigned a unique identity. <b>Data type:</b> String <b>Constraint:</b> 1..30
<b>Document function, code</b>	1..1	<b>Definition:</b> Code indicating the status of the document. <b>Comment:</b> GS1 XML Order: Allowed code value is specified in GS1 XML Code document/StatusCode. EANCOM ORDERS: Allowed code value is specified in EANCOM Code List 1225 Message function code. The document status of the order is always "Original". <b>Applicable types</b> Original Initial transmission related to a given transaction.
<b>Creation date time</b>	1..1	<b>Definition:</b> Date and time of creation of the document. <b>Comment:</b> Date when the order was issued. <b>Data type:</b> Date and time

0..1 = no or only one occurrence | 1..1 = occurs exactly once  
0..unbounded = no or several occurrences | 1..unbounded = one or several occurrences

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