

# **Enabling AIDC solutions** in healthcare worldwide

**Grant Hodgkins Alcon Laboratories, Inc.** 





- Background
- Where we are going
- Where we are today
- What this means to you
- Questions



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# **Automatic Identification & Data Capture (AIDC)**

"Automatic Identification and Data Capture (AIDC) refers to the methods of automatically identifying objects, collecting data about them, and entering those data directly into computer systems (i.e., without human involvement)."









Defines
the data to carry
using specific data carriers
for every healthcare product
at every packaging level



#### Data – a few examples:

- ✓ Global Trade Item Number (GTIN)-
- ✓ Expiry Date
- ✓ Batch / Lot
- ✓ Serial Number



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Of course, UPC and EAN formats will continue for retail channels



## (GS1 Healthcare Scope: All healthcare products

Pharma / Vaccine / Nutritional



Medical devices



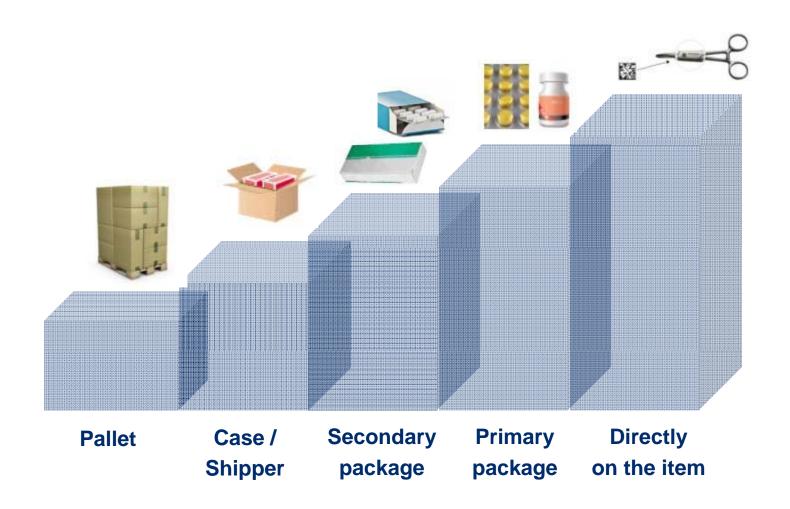
Retail



Non-retail









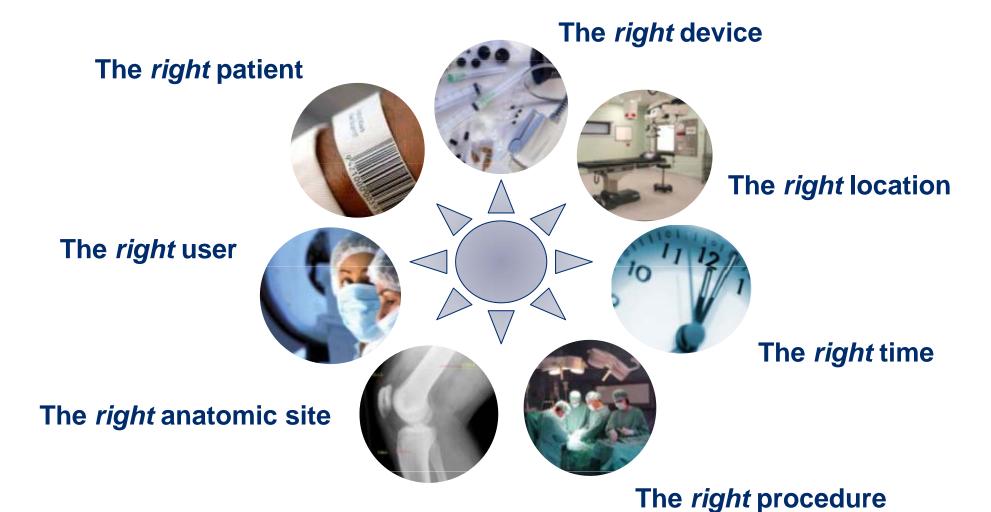








## **GS**1 Healthcare AIDC and the "8 Patient Rights"





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ONE set of key identification data carried in ONE data carrier able to be scanned by EVERYONE at every key process step...



# **GS**1 Healthcare AIDC for Healthcare...Why?

- To improve patient safety
  - Achieve the "5 Patient Rights" or "8 Patient Rights"
  - Reduce errors
  - Ensure needed information is instantly available to the healthcare practitioner
- To increase efficiency in supply chain and treatment chain





#### My twin nephews, 11 weeks premature, in NICU...Mar. 1





**Baby Brennan** 

**Baby Collin** 



It often takes items from many companies, sourced from all over the world, to effectively treat ONE patient (or in this case, TWO)

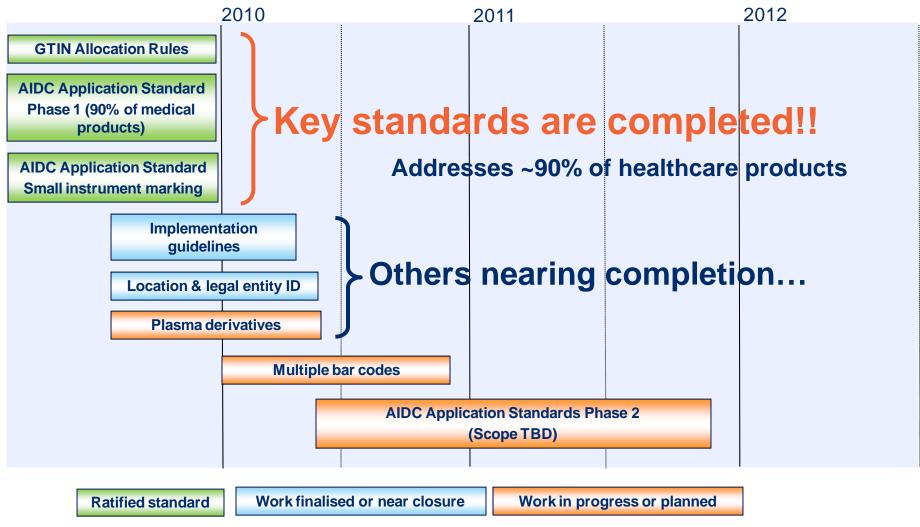
#### Now, imagine a world where:

- EVERY item is uniquely identified
- ONE data carrier contained all the key identification information
- ONE globally accessible repository provides data describing the item
- Picking, receiving, dispensing, billing, invoicing—all completed electronically and without human error



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# (GS) Healthcare Roadmap to global standards





### Healthcare GS1 General Specifications

Revised!



The core standards document of the GS1 System

Now including AIDC Application Standards for Healthcare

GS1 General Specifications Version 10

Issue 1, Jan-2010

And specific standards for marking re-usable surgical instruments



Contact your GS1 Member Organisation for your copy!





#### **Requirements Analysis**

**Conclusions:** 

- ✓ No gaps in standards
- ✓ Guidelines needed

#### **Implementation Guide**

**AIDC Marking** 

- ✓ Plasma Derivatives
- ✓ Recombinant Products





## Healthcare AIDC Implementation Guide

In final draft!



How to implement AIDC for EVERY healthcare participant

Coming soon!!

AIDC Healthcare Implementation Guide

ksue 1, Draft 10, 28-Jan-2010





#### AIDC Application Standards for Healthcare and Product Marking Grid

	MINIMUM Level of AIDC Marking (Retail)		MINIMUM Level of AIDC Marking (Non-Retail)		ENHANCED Level of AIDC Marking		HIGHEST Level of AIDC Marking	
	Pharmaceuticals  Distributed and/or Sold  Primarily Via  Retail Channels	Medical Devices  Distributed and/or Sold  Primarily Via  Retail Channels	Pharmaceuticals Distributed and/or Sold Primarily Via Non-Retail Channels	Medical Devices  Distributed and/or Sold  Primarily Via  Non-Retail Channels	Medical Devices Distributed and/or Sold Primarily Via Retail Channels	Medical Devices Distributed and/or Sold Primarily Via Non-Retall Channels	Pharmaceuticals  Distributed and/or Sold Via  Retail and/or  Non-Retail Channels	Medical Devices  Distributed and/or Sold  Primarily Via  Non-Retail Channels
Description of the Example Product Hierarchy	DPM: 1 pill Primary Package: 1 pill in blisterpack of 12 pills Secondary Package: 3 blisterpacks of 36 pills in one carton Case: 24 cartons (864 pills) Pallet: 200 cases (172,800 pills)	DPM: 1 consumer bandage Primary Package: 1 bandage in pouch Secondary Package: 12 pouched bandages in one carton Case: 12 cartons (144 bandages) Pallet: 200 cases (28,800 bandages)	DPM: 1 pill Primary Package: 1 pill in blisterpack of 12 pills Secondary Package: 3 blisterpacks of 36 pills in one carton Case: 24 cartons (864 pills) Pallet: 200 cases (172,800 pills)	DPM: 1 empty syringe Primary Package: 1 empty syringe in blisterpack Secondary Package: 12 empty blisterpacked syringes in one carton Case: 12 cartons (144 syringes) Pallet: 200 cases (28,800 syringes)	DPM: 1 contact lens Primary Package: 1 contact lens in vial Secondary Package: 2 vials of 1 contact lens each in one carton Case: 12 cartons (24 contact lenses) Pallet: 100 cases (2,400 lenses)	DPM: 1 catheter (temporary) Primary Package: 1 catheter in blisterpack Secondary Package: 6 blisterpacked catheters in one carton Case: 24 cartons (144 catheters) Pallet: 200 cases (28,800 catheters)	DPM: 1 pill Primary Package: 1 pill in blisterpack of 12 pills Secondary Package: 3 blisterpacks of 36 pills in one carton Case: 24 cartons (864 pills) Pallet: 200 cases (172,800 pills)	DPM: 1 re-usable scalpel handle Primary Package: 1 re-usable scalpel handle in pouch Secondary Package: 6 pouched re-usable scalpel handles in one carton Case: 15 cartons (90 scalpel handles) Pallet: 200 cases (18,000 handles)
Direct Part Mark (AIDC marked directly onto a single, unpackaged, unla- beled item)	No marking	No marking	No marking	No marking	No marking	No marking	No marking	GTIN Serial No. - Not for implants Hospital: - 8003/8004 - optional
Primary Package (AIDC marked onto the first level of packaging, either on the packaging or on a label affixed to packaging. May consist of 1 single item, or a group of items for a single therapy such as a Kit.)	No marking (mark with GTIN if no Secondary Package)	No marking (mark with GTIN if no Secondary Package)	GTIN	No marking (mark with GTIN if no Secondary Package)	No marking (mark with GTIN if no Secondary Package)	GTIN Lot Explry	GTIN Hospital: Al(01)+Al(21)+Al(7003)	GTIN Lot Expiry Sertal No. Potency (kits) Hospital: -8003/8004
Secondary Packaging (AIDC marked onto the next level of packaging, containing one or more single Items in their Primary Packaging)	GTIN	GTIN	GTIN Lot Expiry	GTIN Lot Expiry	GTIN	GTIN Lot Expiry	Need 2 marks   GTIN	GTIN Lot Expiry Serial No. Potency (kits) Hospital: - 8003/8004 - optional
Case / Shipper (AIDC marked onto a shipping container. May contain one or more items in their Primary Packaging and/or Secondary Packaging.)	Trade Item: -GTIN -Lot -Expiry Logistics: -SSCC	Trade Item: -GTIN -Lot -Exptry Logistics: -SSCC	Trade Item: - GTIN - Lot - Expiry Logistics: - SSCC	Trade Item: - GTIN - Lot - Expiry Logistics: - SSCC	Trade Item: - GTIN - Lot - Expiry Logistics: - SSCC	Trade Item: -GTIN -Lot -Expiry Logistics: -SSCC	Trade Item:  -GTIN	Trade Item: - GTIN - Lot - Expiry - Serial No Potency Logistics: - SSCC
Pallet (AIDC marked onto a pallet. May contain one or more Case / Shippers.)	Trade Item: -GTIN -Lot -Expiry Logistics: -SSCC	Trade Item: -GTIN -Lot -Explry Logistics: -SSCC	Trade Item: - GTIN - Lot - Expiry Logistics: - SSCC	Trade Item: - GTIN - Lot - Expiry Logistics: - SCC	Trade Item: -GTIN -Lot -Expiry Logistics: -SSCC	Trade Item: -GTIN -Lot -Expiry Logistics: -SSCC	Trade Item: - GTIN - Lot - Expiry - Serial No. Logistics: - SSC	Trade Item: - GTIN - Lot - Expiry - Serial No. Logistics: - SSCC



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# ONE global standard for AIDC in healthcare now available

Many countries have already adopted GS1 Standards

We anticipate many more...



## Putting the standards at work...



- Participated in work groups to understand the issues
- Started a gap analysis of key items
  - Focused on medical devices for UDI compliance
  - And for pharma / devices in areas with active regulations (Brasil, France, Serbia, Korea, Turkey, etc)
- Preparing action plan by mfg. facility based on gaps
- Reviewing results with Auto-ID Steering Committee
- Requesting 2011 2015 funding
- Starting pathfinder projects to 'learn by doing'
- Continuously improving our approach

Changing our world...ONE item at a time...



- 1. Contact your local GS1 Member Organisation for guidance
- 2. Get familiar with the standards / guidelines
  - Attend breakout sessions this week!
  - Participate on GS1 implementation projects / team
- 3. Do a gap analysis...your items vs. GS1 Standards
  - Focus on key items and facilities...don't 'boil the ocean'
  - Build action plans, budgets, management approval
- 4. Implement your action plan
  - Start small, conduct Pilot Projects, "learn by doing",
     "crawl before you walk / run"...



## Healthcare AIDC sessions this week

# This Week:

- Wednesday, 11:00 12:30 (breakout sessions)
  - AIDC Introduction Session—new application standard
  - Blood / Plasma Derivatives Work Group
- Wednesday, 15:30 17:00 (breakout sessions)
  - AIDC Patient and Caregiver ID Work Group
- Thursday, 11:00 12:30 (breakout sessions)
  - AIDC Implementation Guideline Work Group



#### **Global teams**

- Implementation Guideline
- Blood / Plasma Derivatives
- Location and Legal Entity ID
- Patient and Caregiver ID
- Multiple Barcodes
- Barcode / EPC Interoperability
- Serialization
- Phase 2: AIDC Application Standards

#### **Local teams**

Contact your local Member Organisation representative





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