

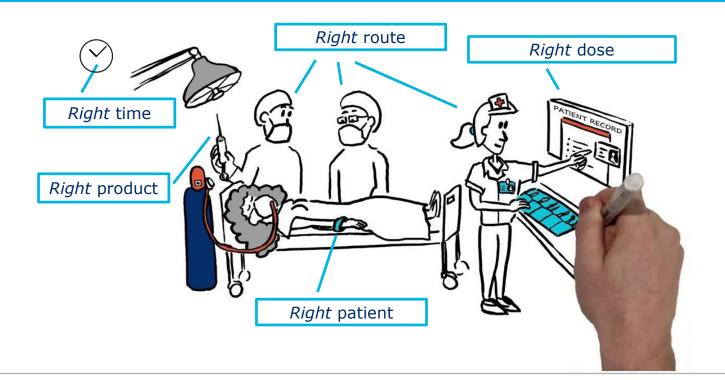
The Global Language of Business

## Ask the Experts: Understanding barcode quality & its need

Catherine Koetz Industry Manager – Healthcare, GS1 Australia 31<sup>st</sup> October 2018









## What is we do not get it right?







# Barcodes = Enabling data capture





Capture: GS1 Standards for Barcodes & EPC/RFID								
GS1 Barcodes							GS1 EPC/RFID	
EAN/UPC	GS1-128 (00) 3 9501100 000001001 9	ITF-14	GS1 DataBar	GS1 DataMatrix	GS1 QR Code	GS1 Composite Barcode KKNR20+11	EPC HF Gen 2	EPC UHF Gen 2



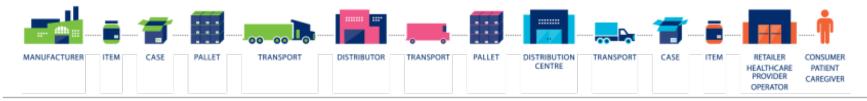


### Healthcare is becoming more digital – & quickly! We are using data capture technology at all points in the care process

- The reliance on technology to help us manage clinical processes means we need accuracy, consistency & trust in how the data is captured
- Patients and healthcare consumers are demanding the ability to manage (some of) their own health activities

### Traceability & visibility are the new black (or is it orange?)

- Improvements to global & local Supply Chains operations to ensure security and continues increased efficiency are a must for manufacturers
- Regulations are demanding we improve visibility







#### Manufacturer

Ensures accuracy of inventory, meets trading partner requirements

#### Distributor

Supports efficient operations of automated warehousing, better management of inventory (FIFO, Expiry etc..)

**Retailer** (Pharmacy) Ensures accuracy in dispensing process and at point-of-sale (POS)

#### Clinicians

Can account for products used within patient procedures, removes manual documentation of products used and reduces errors

**Clinical support** (Finance) Accurate cost of care and reimbursement

#### **Consumer/Patient**

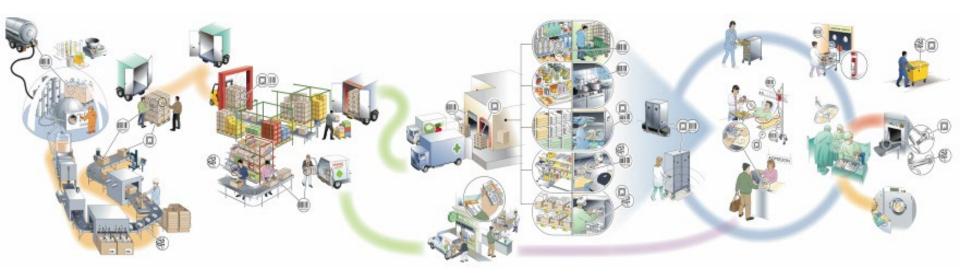
Can scan during their own care (such as medications at home), safer, more accurate records







### Who & where is going to scan? Look at the whole chain









## Choosing the format & (keep) checking it is right



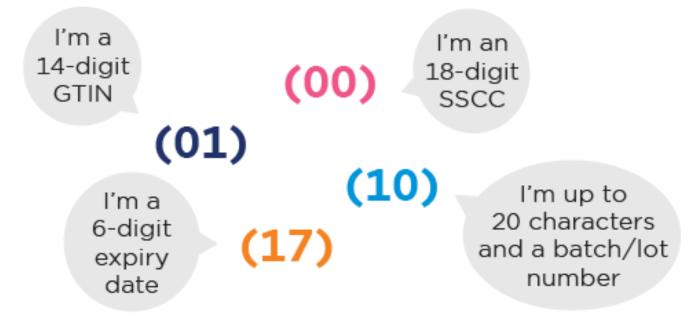


ustrali

How do we get it right?



### What data elements?







## **Don't forget the basics?**

- Importance of FNC1 (Function 1)
- ensure GS1-128/GS1 DataMatrix barcode's data elements are encoded correctly; FNC1 is used to parse each variable length data elements e.g. Batch/Lot; Serial <u>link</u>
- ! Ensuring Application Identifier (AI) data is encoded correctly in barcode, per AI standard e.g. YYMMDD for Expiry, not DDMMYY
- incorrect data may bring the product's expiry or manufacturing date into question, and mean the products' characteristics can not be scanned into pharmacy or hospital systems
- Barcode scan not reflecting GTIN under barcode









### Don't forget the basics?

- Ensure GS1 barcodes are used GS1 barcodes enable systems to interpret the barcodes & the data in a consistent & standardised way
  - e.g. ECC200 DataMatrix v GS1 DataMatrix
  - e.g. Code 128 v **GS1-128**
- Barcode according to GTIN Allocation rules



Incorrect Check Digit





# How do we get it right?



- Talk to your local GS1 Member organisation for advice & assistance
  - Talk to their experts
  - Attend training they provide (in person or online)
  - Consider using their barcode quality services for support if you need to
- Refer to the GS1 General Specifications for technical details
- Healthcare specific reference documents
  - Healthcare GTIN Allocation Rules
  - Healthcare AIDC Guidelines
  - Solution provider resources



# Simple tips to get it right, every time



- Ensure correct symbol used for the product, application and scanning environment
- ✓ Don't forget the FNC1 characters to identify the barcode type and ensure data fields are clearly defined
- Check the barcode will remain readable in the **environments** in which the product will be stored, handled and distributed
- Ensure the check digit is correct
- ✓ Check the size of the barcode **bar height** (linear) or **module size** (2D)
- Ensure there are adequate Quiet Zones, and any optional Quiet Zone Indicators are correctly placed
- Ensure there is adequate **contrast** between the bars and the background
- That the chosen barcode **colour** will scan, making sure the colour of the contents of the packaging will not unduly affect the **contrast** between the bars and spaces
- Check the **position** of the symbol on the final, formed product
- Ensure that shrink-wrap, tape or other printing will **not obscure** the barcode on the finished product
- Carry out **routine verification** at all levels of packaging to ensure that the barcode complies with the required quality standard, and to identify any potential problems
- Check the print quality regularly throughout the print run by verifying the barcode quality
- Notify partners of changes to products GTINs & master data (new, changes) via a quality process



13

## Thanks for listening...

Catherine Koetz Industry Manager – Healthcare, GS1 Australia Catherine.koetz@gs1au.org +61 3 9550 3403





# Enjoy the rest of the conference!



