SUPPLY CHAIN INTEGRITY

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Supply Chain Integrity

 Pharmaceutical Supply Chain in Europe

2. Identification and Coding of Medicines

1. Pharmaceutical Supply Chain in Europe

- Complex and fragmented
- No consensus on approach
- Not transparent or consistent
 - → Difficulties track and trace
 - → Safety concerns: Counterfeiting, issues arising from parallel trade, batch recall capability

2. Identification and Coding of Medicines Current Environment

Issue: Threat of fraud

Result:

Threat of counterfeiting

Reaction: Increase control of

transactions



MS each developing national coding initiatives, i.e.:

- Italy Bollini Decree
- Belgium Random id (EAN 128)
- France CIP number (EAN 13)
- Portugal Barcode (code 39)
- Netherlands EAN solutions
- Others under review

Identification and Coding of Medicines EFPIA Rational for Action

- Most MS implementing or planning reforms
- Lack of a clear position from European industry
- Increasing concern about patient safety
- RFID position

Identification and Coding of Medicines EFPIA Objective

"to better understand the issue of identification of pharmaceutical products and coding systems, review ongoing initiatives at European level and it's implications for the industry and other key stakeholders, evaluate the need as well as pros and cons of a possible harmonisation at European level, and, if possible/appropriate, make a recommendation on next steps"

Identification and Coding of Medicines EFPIA Activity

- Coding Task Force created
- Reviewed European situation
- Looked at stakeholders needs
- Identified process to meet those needs
- Determined most appropriate technology

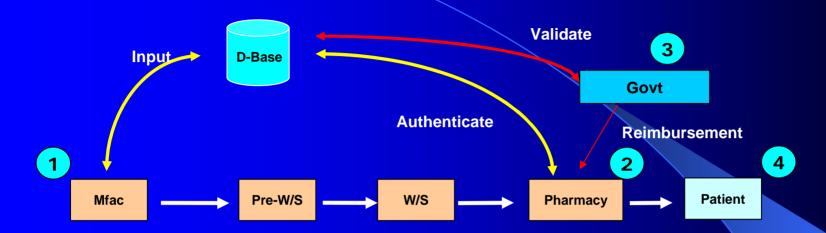
European Coding Solution

- Harmonised EU coding system could offer a more secure, effective and efficient supply chain:
 - Help in detection and prevention of counterfeit drugs
 - Facilitate authentication and avoid human errors
 - Improve supply chain performance
 - Improve patient confidence

• Key factors:

- Investment needed, but better than 25 different systems + future cost efficiency gains
- Establishment and ownership of European database
- Need to authenticate at pharmacy

How will it Work?



1 Manufacturer

Apply 2D barcode with mass serilaised unique ID number.

Pack read at end of line and information transferred to common secure database.

2 Pharmacy

Read pack at point of dispense. Database accessed and pack validated. Other flags as required: recall, compliance message etc.

3 Government

Immediate flag that pack has been dispensed by pharmacy. Can initiate reimbursement for specific pack, reduced risk of fraud.

4 Patient

Confidence in product, reduced risk of counterfiet.

Transparency will improve supply availability

Identification and Coding of Medicines EFPIA Recommendation

Adoption of a 2D (Data matrix) barcode to be introduced across Europe

- Easiest solution for entire supply chain.
- Meets basic safety, tracking and logistic needs
- Technology is available, can be implemented at MS/EU/Global level
- Ensure process works
- Demonstrate commitment to patient safety

Recommendation approved by the EFPIA Board

Distribution Group currently working on implementation guidelines

BACK UP



Identification Code

Definition of "code".

"The application of a product identifier unique for a specific pack".

Comparisons Completed

Solution	2D	EAN 128	EAN 13	RFID
Fraud	√	✓	*	✓
Counterfeit	✓	✓	x	
Authenticate	✓	✓	*	
Track & trace	√	√	æ	
Size	√ √	3 2	*	✓
Implement Now	✓	✓	✓	*
Cost	Medium	Low	Low	Very High

Coding Examples







TAG RF ID