

Scanning packs – what to look for

Implementing the EU Falsified Medicines Directive in the UK

FMD – what the “right” packs look like

FMD safety features – what to look for

2D data matrix

[printed on low-reflecting area]



Anti-tampering device

[various different kinds can be used]

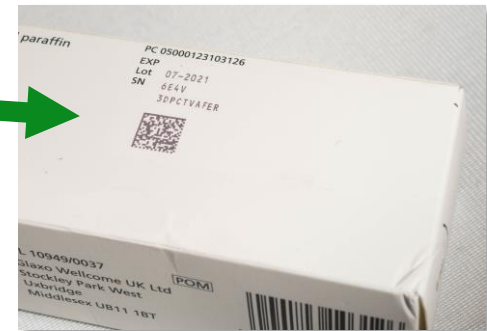
Human-readable text

[Product code or GTIN – may be pre-printed]

[Serial number] [Expiry date] [Batch or lot number]

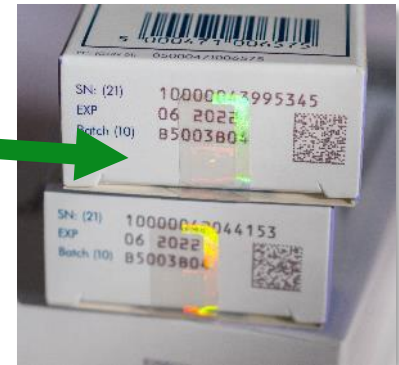
FMD safety features – 2D data matrix

- Normally on end of pack
- Normally next to human-readable text items
- Only one 2D data matrix allowed on each pack
- Sometimes printed on different part of pack



FMD safety features – 2D data matrix

- Can be printed in reverse (white-on-black/colour)
- Scanners need to be set to recognise this format
- Seals or stickers should not obscure 2D matrix



Examples of anti-tampering devices



Seals or stickers
[with or without holograms]



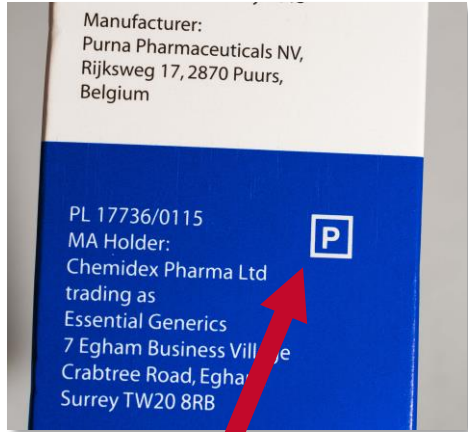
Pack glued shut
[with perforations]



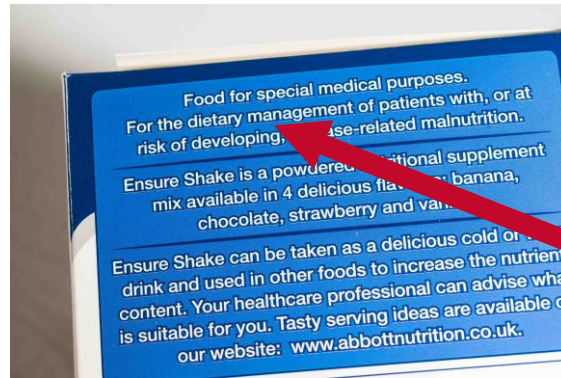
Twist to open
[with device visible]

FMD – what the “wrong” packs look like

Out-of-scope – do not need to be authenticated



Non-prescription
[Pharmacy (P)]
[General Sale List (GSL)]



Not a medicine
[Specialist foodstuffs]



Medical device
[with CE marking]

Older stock (without safety features) can still be used



No 2D data matrix
[with or without anti-tampering devices]



No serial number
[with or without 2D data matrix]



No anti-tampering device
[with or without 2D data matrix and serialisation]

Other types of barcode (not FMD)



QR code

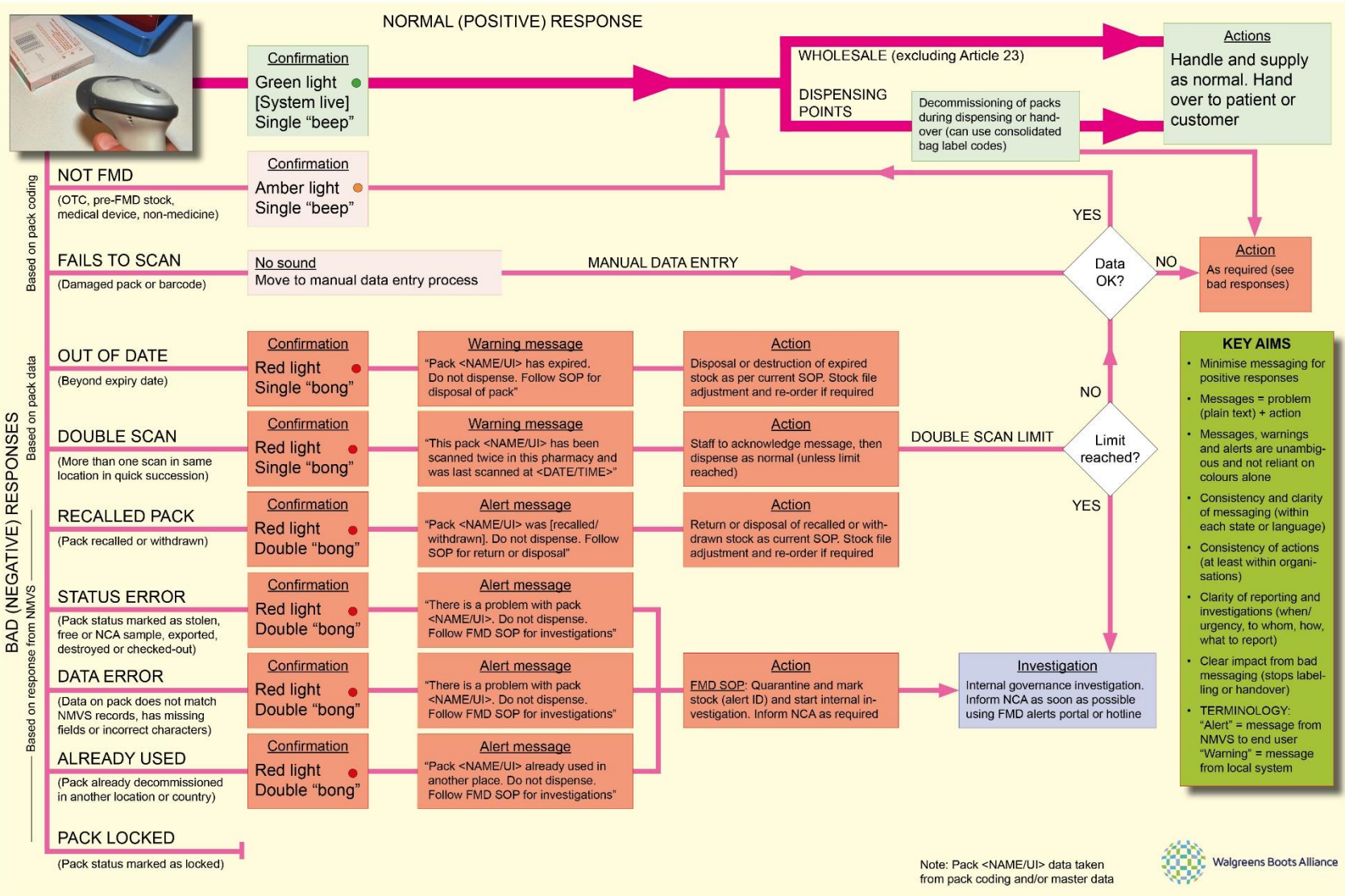
[note three squares
in corners of code]



Linear barcode
[pre-printed]

FMD error and alert messages

FMD - error and alert messages (for pharmacy and wholesale)



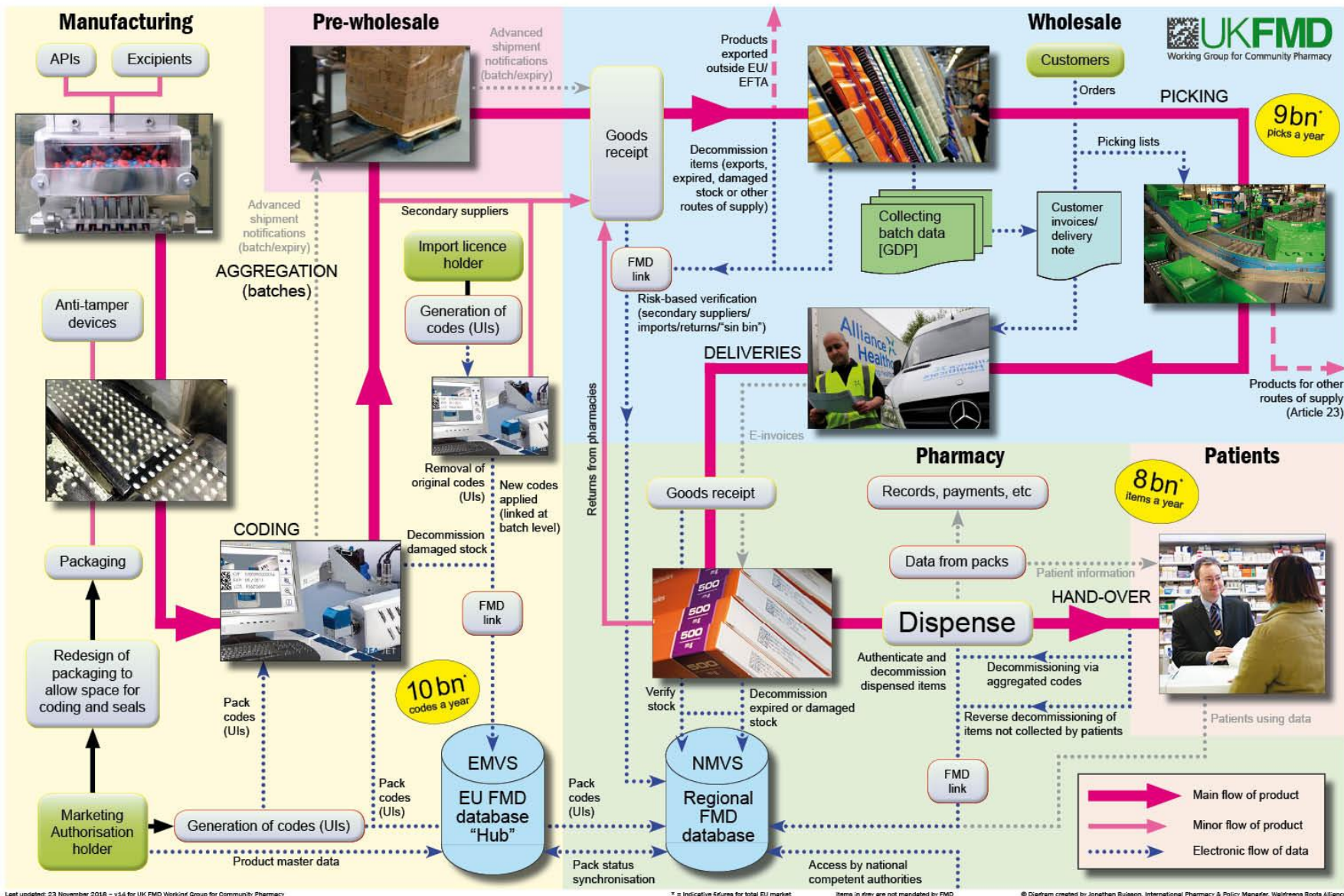
Last updated: 23rd October 2018 - v5a (updated for publication)

References: Naughton B et al. BMJ Open. 2016 Dec 1;9(12):e013837 and BMJ Open. 2017 May 6;7(5):e013838

© Diagram created by Jonathan Busson, International Pharmacy & Policy Manager, Walgreens Boots Alliance

The journey of a patient pack

European Falsified Medicines Directive (2011/62/EU) and Delegated Regulation (2016/161)



Last updated: 23 November 2018 – v14 for UK FMD Working Group for Community Pharmacy

* Indicative figures for total EU market

Items in grey are not mandated by FMD

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