

🌐 APRIL 3<sup>RD</sup> - 4<sup>TH</sup> 2019

🌐 ARENA MK, MILTON KEYNES


🌐 75+ EXHIBITORS


🌐 15+ SPEAKERS

**WELCOME TO THE EBME EXPO 2019**

**WITH THANKS TO ALL THE EXHIBITORS  
FOR SUPPORTING THE EBME EXPO**

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## ACHIEVING REAL TIME MEDICATION ERROR SOLUTIONS THROUGH IT INTEGRATION

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NATIONAL BUSINESS DEVELOPMENT MANAGER

COLIN HARRISON:

MEDICAL DEVICE IT INTEGRATION MANAGER



# Agenda

- Medication Error – Generic Background
- B. Braun Experience
- Project Management – Learned Best Practice with IT interaction
- EPR Example
- IT Integration Service
- Summary

## MEDICATION ERROR

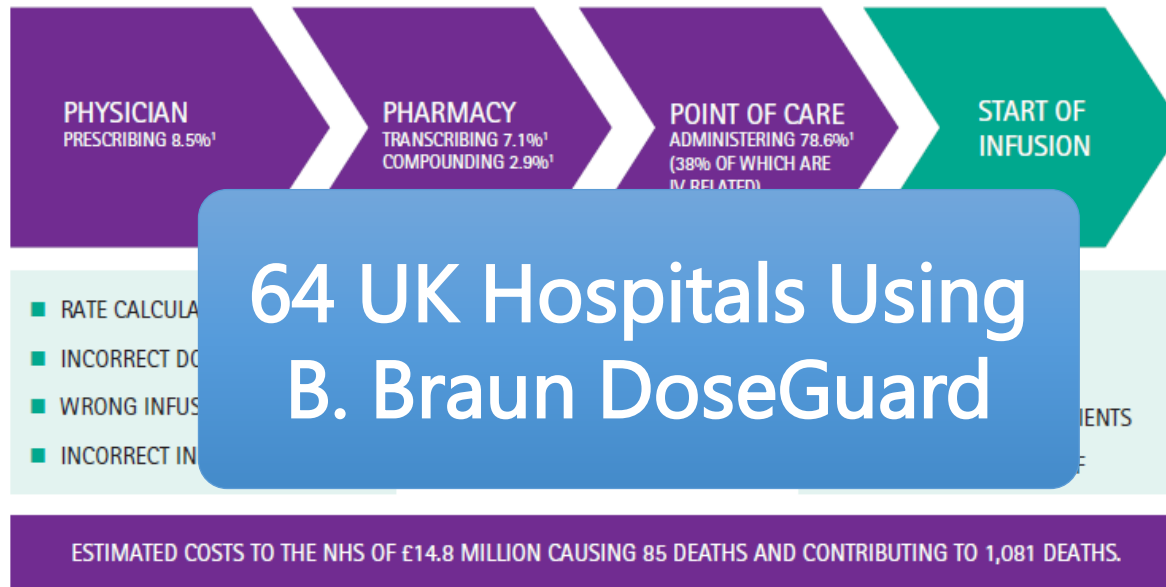
# Medication Safety – A challenge to the NHS



The image shows two overlapping web pages. The background page is the WHO Media Centre, featuring the WHO logo and a navigation menu with 'Media centre' highlighted. The foreground page is a BBC News article titled 'Drug errors cause appalling harm and deaths, says Hunt', dated 23 February 2018. The WHO page also displays a news release from 29 March 2017 about a global initiative to halve medication-related errors.

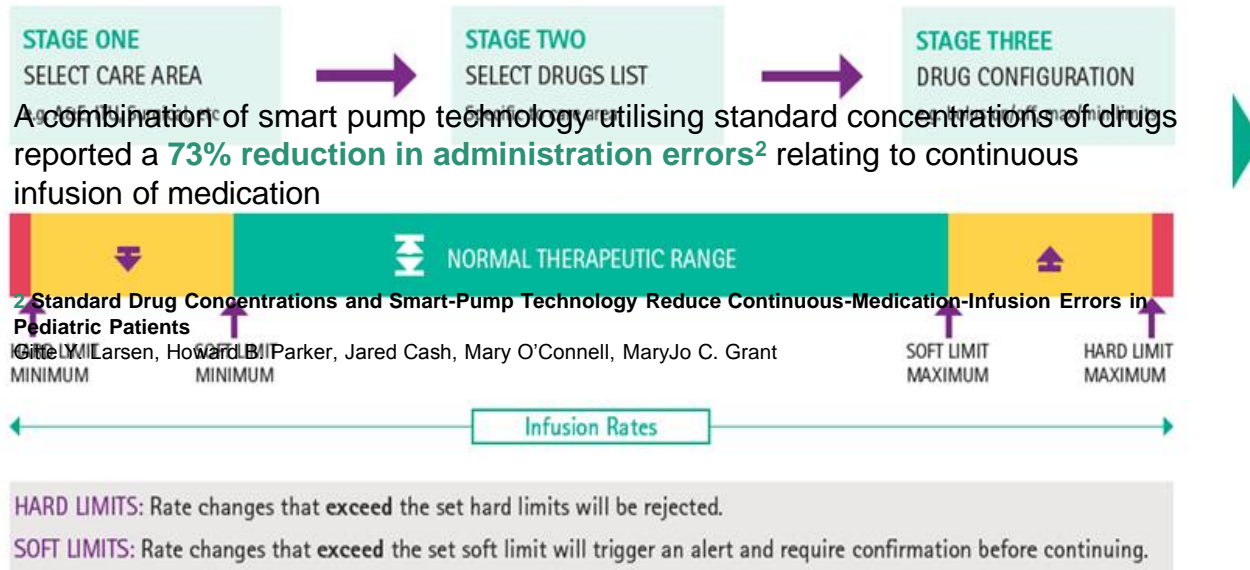
- The medicines use process is quite complex, starting with prescribing, but also including dispensing, administration and monitoring, involving different healthcare professionals and other key players at each stage.

# Why is the NHS giving it focus?



<sup>1</sup>Elliott R, et al. (2018). [Prevalence and Economic Burden of Medication Errors in The NHS in England. Rapid evidence synthesis and economic analysis of the prevalence and burden of medication error in the UK.](#)

# DoseGuard

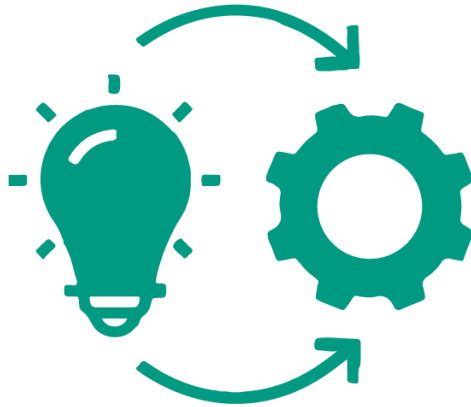


# Why Connect Infusion Devices to the Network?





DoseGuard gives you Real-Time visibility on -



COMPLIANCE

Targeted Training

EFFECTIVITY

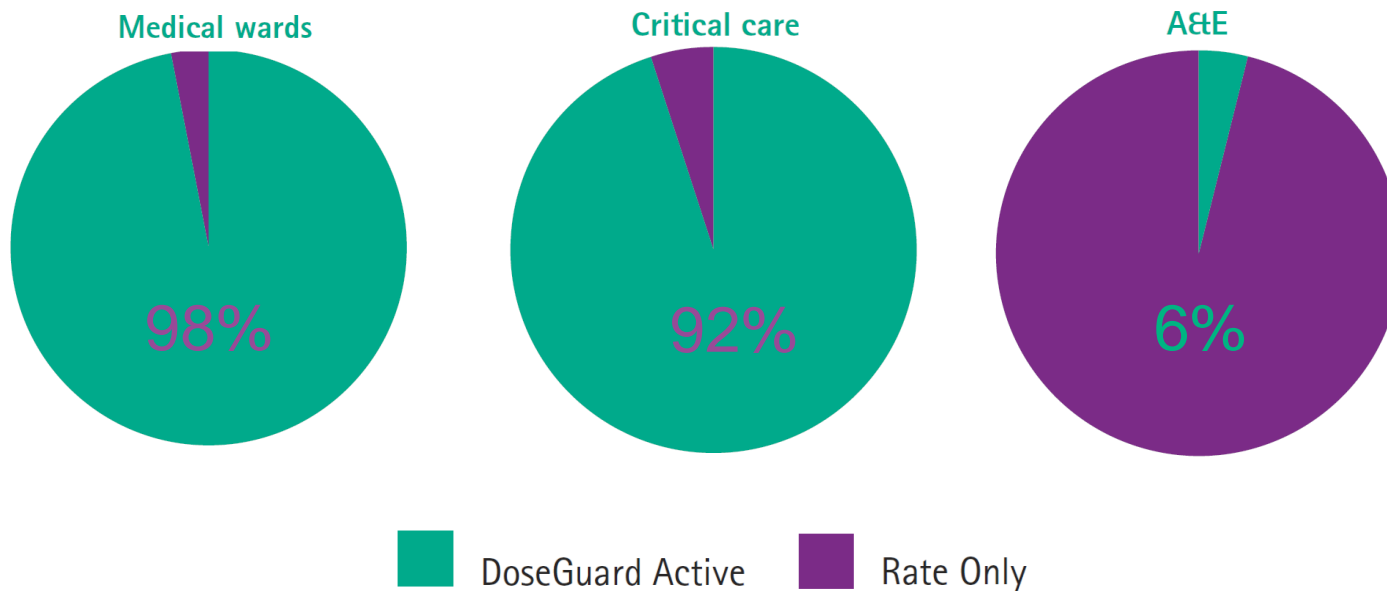
Patient and Nurse Safety

ERROR PREVENTION

Fit for purpose

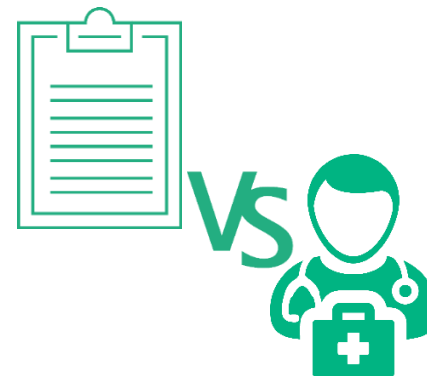
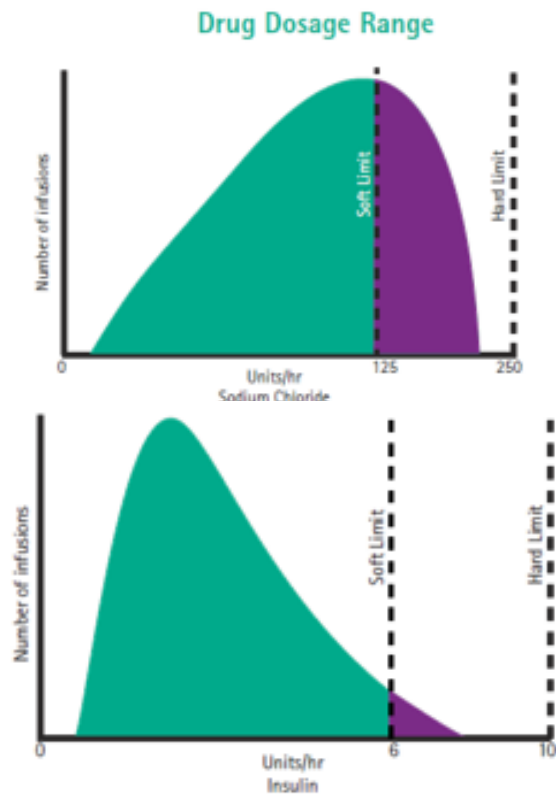
# COMPLIANCE

Targeted Training



# EFFECTIVITY

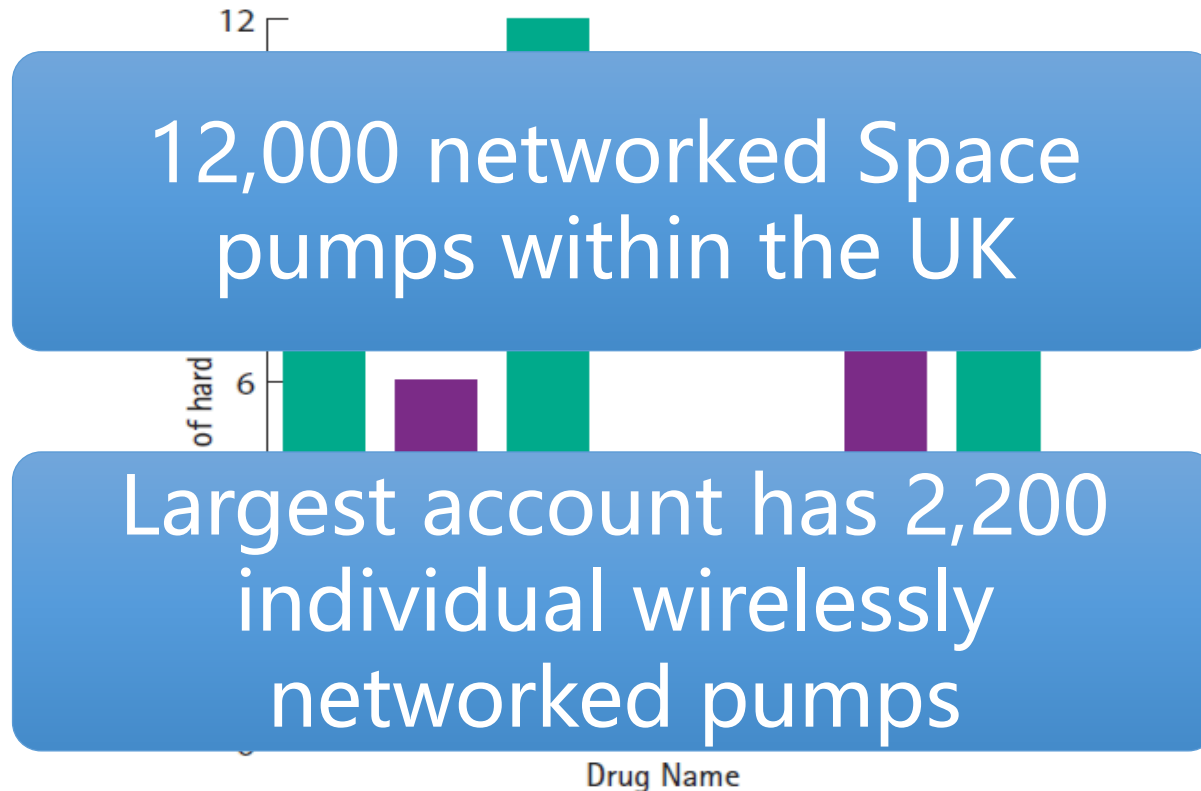
Nurse and Patient Safety



POLICY  
V  
PRACTICE

# ERROR PREVENTION

Fit for Purpose



## SUCCESSFUL IMPLEMENTATIONS

# IT INTEGRATION SERVICE

## Initial Engagement Process

- Helping to realise a concept / aspiration
- New concept / technology /application for NHS
- No specific role within NHS

## Technical Assessments

- Provision & assessment of IT specifications
- Liaise with trust IT dept. & project lead

## Proof of Concept / Commissioning

- Proof of Concept
- Implementation
- Post implementation support

# SPACESTATION with SPACECOM



# SINGLE PUMP WIRELESS CONNECTIVITY



WLAN module  
integrated in  
battery module

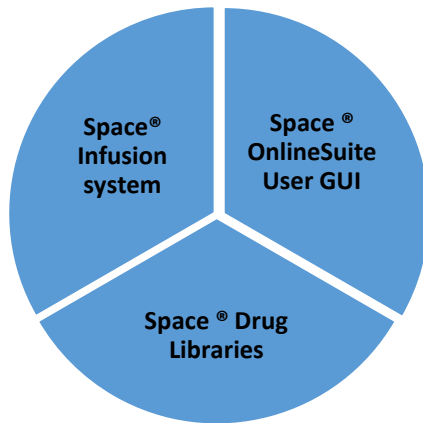
Wireless  
connection during  
transport

Same interface  
protocol like  
Workplaces

Easy upgrade of  
existing pumps

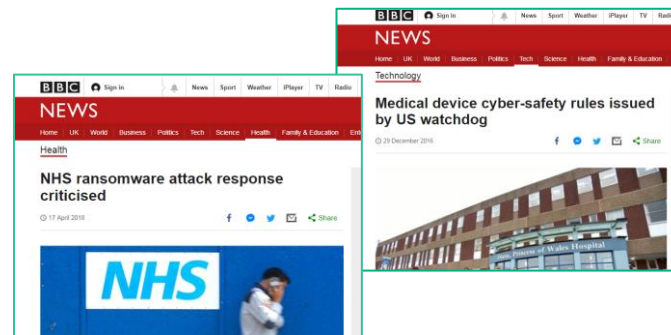


# SYSTEM ARCHITECTURE - SECURITY

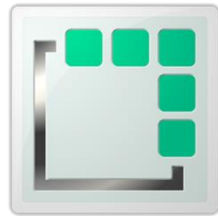


B. Braun infusion devices never actually sit on the IT network. The interface units (LAN or WLAN) are connected to the network, and there is a CANBUS communication system between the Interface and the actual infusion device.

The firmware of the infusion devices does not have any content with regards to actually controlling the infusion pumps remotely



# CONNECTIONS TO HOSPITAL INFORMATION SYSTEMS



# IT INTEGRATION SERVICE

## Initial Engagement Process


- Helping to realise a concept / aspiration
- New concept / technology /application for NHS
- No specific role within NHS

# SUMMARY –

TO ACHIEVE A REAL TIME ADMINISTRATION MEDICATION ERROR SOLUTION

- Multiple Stakeholder Engagement
- Planning
- Consultancy
- Confidence

Collaboration –  
Company/NHS Trust  
Team



THANK YOU, QUESTIONS?