encodehealth

Tracking The Lifecycle Of Medical Inventory

Winner of the Innovate UK SMART GRANT award

INTELLIGENT HEALTH UK 2023

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Scope

- **Introduction to Encode health**

- **The current challenges**

- **How AI relates to supply chain management in healthcare**

- **Current progress and Awards**

- **Future Developments**

Introduction to Encode Health

Encode Health have merged electronic health records and mobile inventory management.
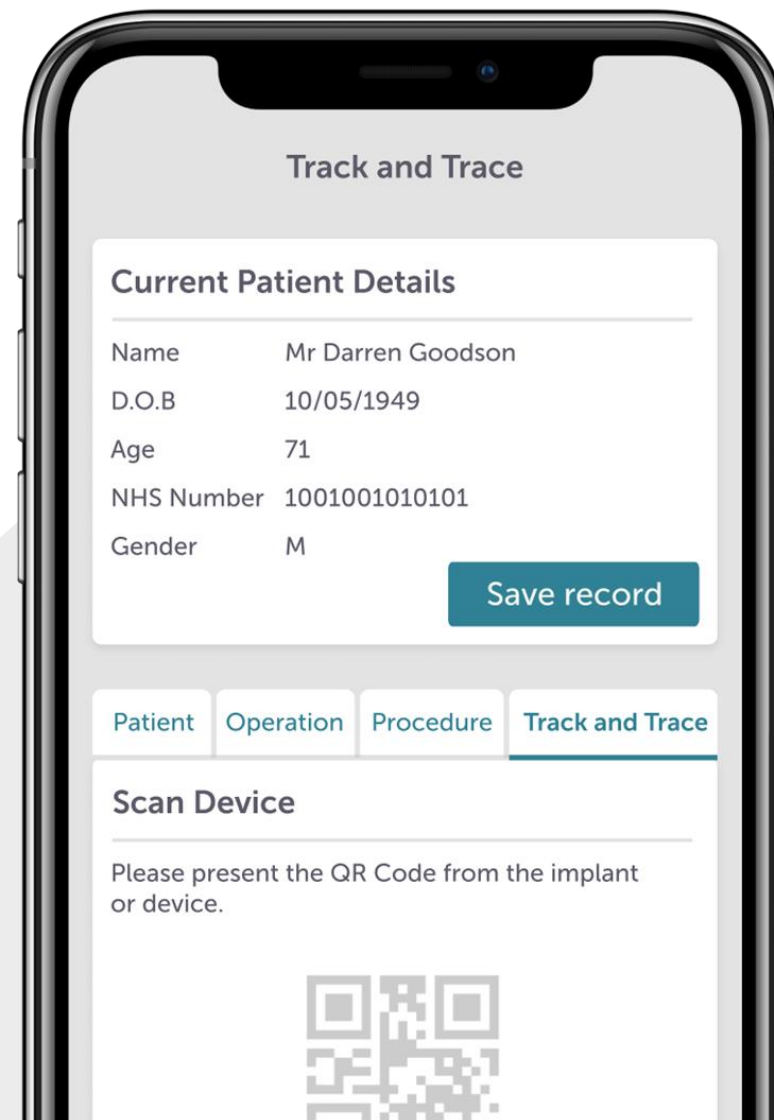
Using a mobile device medical inventory can be scanned and tied directly to a patient's medical record.

"Encoding" improves patient safety whilst saving time and space through efficient inventory management.

Integration to current health record systems is provided.

Track and Trace

Current Patient Details

Name	Mr Darren Goodson
D.O.B	10/05/1949
Age	71
NHS Number	1001001010101
Gender	M

Save record

Patient	Operation	Procedure	Track and Trace

Scan Device

Please present the QR Code from the implant or device.

The Current Challenges

Hospital Supply Chain Management

(Supply)

Lack of visibility between hospitals and medical suppliers.

Supply chain inefficiencies, Encode can save hospitals $millions.

Supplier increased CAPEX, due to inaccurate stock holdings.

Healthcare Professionals

(Demand)

Patient safety- Implant provenance and recalls

National **registries and e-portfolios** compliance

Cancelled procedures due to lack of inventory

Lack of patient feedback on device failures and deficiencies

How AI relates to supply chain management in healthcare

Application of **predictive analytics to clinical workflows** on local and national levels

AI generated repository gives intelligent insights into optimising medical device supply chain

Medical supplier profitability stretched:

Device usage forecasting allows for accurate and lean inventory holdings

Intelligent contracts monitored in real time allows supplier to tailor their offerings and services

Medical device Marketplace

Central device storage for grouped institutions

Increased inventory holding, ordering and supply chain efficiencies

Underpinned by AI predicted clinical demand

Current Progress and Awards

Aesthetic clinic management system

Surgical department management system

Automated post market surveillance dashboard for medical device manufacturers

AI generated repository

NEW products populated with AI augmented OCR

Automatically populate the relevant information into the Encode Health platform

Medical supplier CAPEX reduction:

Suppliers can monitor and manage inventory levels, track sales and usage of devices

Accurately forecast asset usage in the field

Medical device Marketplace

GS1 Standards

Scan4safety

GIRFT

Current Progress and Awards

Awarded the prestigious Innovate UK SMART Grant

2023 Health 2.0 Las Vegas Winners:

1. Leadership
2. Visionary
3. Organisation

Winner of Covid Competition from over 800 participants

Winner of European Medical Insurance Grant (Axa)

Winner of R&D European Innovation grant for validation

Future Developments

Hospital Supply Chain Management

(Supply)

The main intermediary for suppliers

Virtual warehousing and shared stock holdings

Suppliers identify opportunities for product improvement or new market introductions.

Supplier decreased CAPEX, due to accurate stock holdings and asset usage in the NHS

Healthcare Professionals

(Demand)

Live **implant provenance** creating a **device marketplace**

Live registries and e-portfolios for compliance & greater engagement

Automated analysis of inventory, clinical outcome data for improved patient safety

Faster medical trials and **Research optimisation**

Platform for **predictive & personalised** care pathways

The Team - With Much Gratitude, Thank You!

The Encode Team has a unique blend of clinical, **commercial and specific medical device experience** bringing knowledge and insight into a complex healthcare environment.

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