

digitalhealth

REWIRED
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Transforming Care

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Prof. Kevin Moore

Professor of Hepatology,
Royal Free London NHS FT



**BEST PRACTICE
SHOWCASE
STAGE**

Digital phlebotomy

Anywhere, anytime,
every patient

Kevin Moore
Professor of Hepatology
Consultant Physician
Co-founder & Chief Medical Officer, Salutare

13th March 2024



Royal Free London
NHS Foundation Trust

Salutare:

Artificial Intelligence + Digital Phlebotomy

Using GAIT to identify patients

AI + Digital Phlebotomy

GAIT

Global
Artificial
Intelligence
Tracking

Using GAIT to track patients

AI + Digital Phlebotomy

GAIT – “the manner of a persons walking”

- **Gait Cycle:** A repetitive pattern involving steps and strides. A step is one single step, while a stride represents a whole gait cycle.
- **Step Time:** The time between heel strike of one leg and heel strike of the contralateral leg.
- **Step Width:** The mediolateral space between the two feet.
- **Stance Phase:** Occupies 60% of the gait cycle, during which one leg and foot bear most or all of the body weight.
- **Swing Phase:** Occupies 40% of the gait cycle, during which the foot is not touching the walking surface.
- **Double-Support Phase:** In a complete two-step cycle, both feet are in contact with the floor simultaneously for ~ 25% of the time.

AI + Digital Phlebotomy

GAIT 'a person's manner of walking'



AI + Digital Phlebotomy

**No form means
No test**

What is the problem?

- Paper forms still needed in many phlebotomy units and most CDCs
- No form means no test
- 80% of tubes from external sources re-labelled in the lab
- Patients have little choice but to attend GP or hospital phlebotomy
- 5% of all test requests received in the lab are duplicate test requests
- Sample date and time of collection manually written on tubes and manually re-entered on arrival in the lab

The digital blood form



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The Royal London Hospital
Whitechapel Road
Whitechapel
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telephone: 020 7377 7000

QR Code

Clinician Requesting
Dr Kevin Moore
NHS Number: 11223454989

Date of Birth: 24/04/1985
Date: 02/10/2023

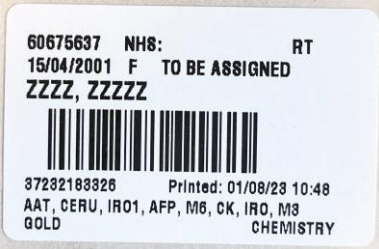
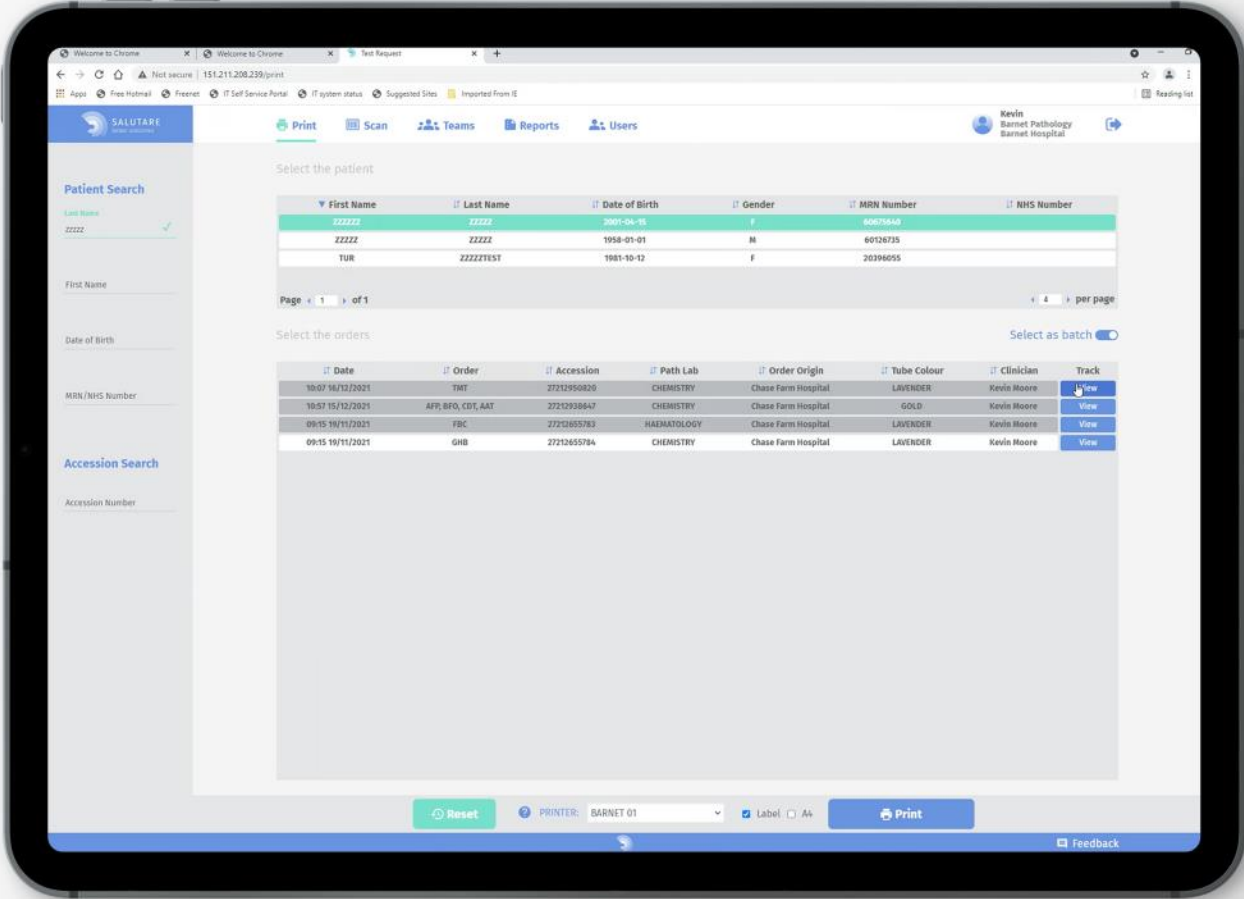
Title: Mr.
Surname: Dial
Forename: Chris

Pathology Request Form

Clinical Details

/A requests
ion tests
unt
antibodies

Simple interface



Simple interface

Amalgamates all GP and hospital test requests onto one cloud-based platform.

Accessed from anywhere with a **secure HSCN connection**.

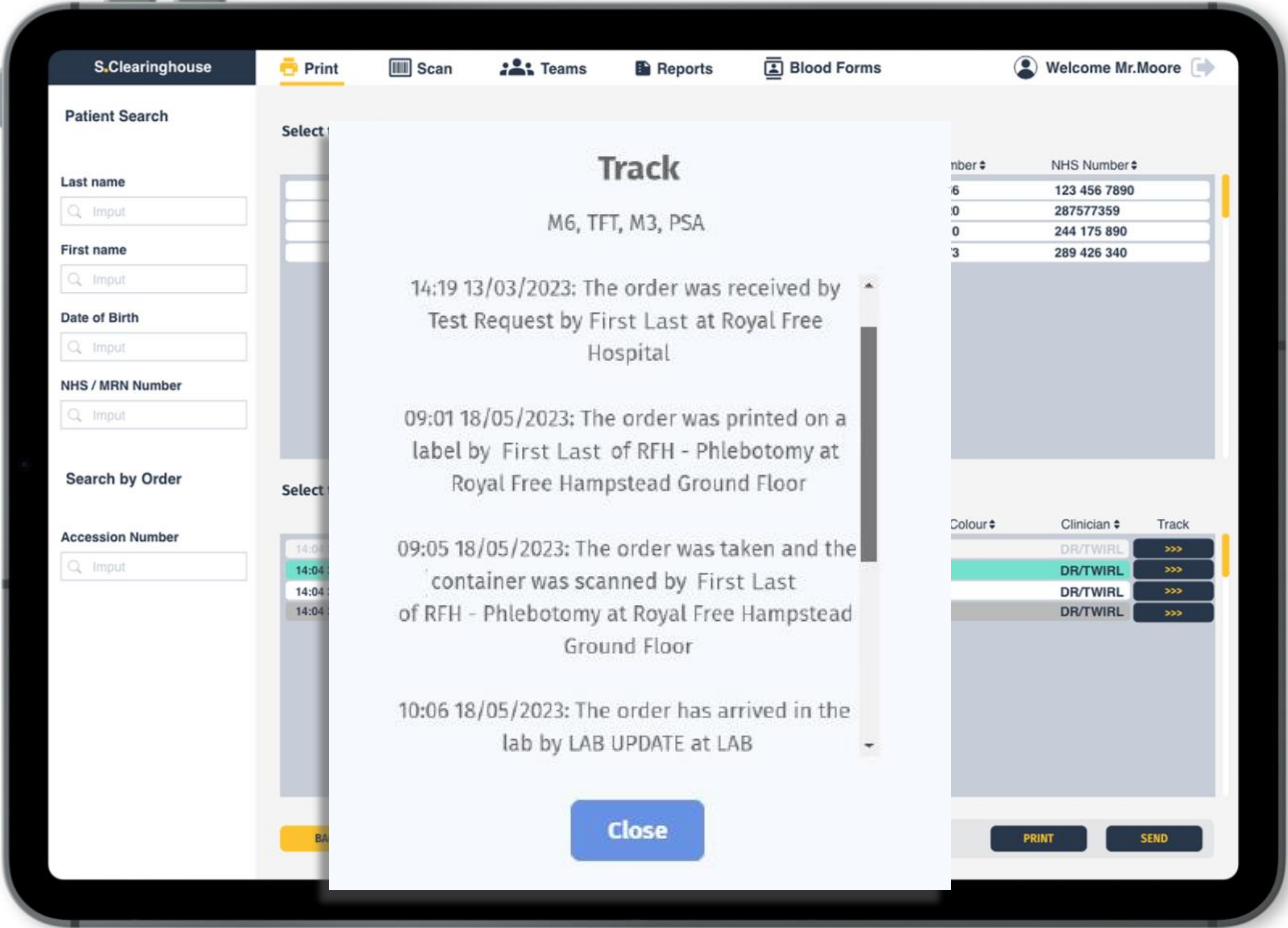
GPs and hospital doctors order blood tests **as normal**.

We simply capture a copy of the order so that **the barcodes can be printed**.

Users **do not need** a direct login to any EPR.

In NCL the same system can work with EMIS, Cerner EPR, EPIC, Sunquest or any EPR

Tracking built in



Anywhere, anytime, every patient means

- Community Diagnostic Centres
- Pharmacy Phlebotomy
- Care Homes
- GP practices
- Hospitals

Thank you

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Salutare:

Laboratory and Phlebotomy metrics

- Numbers
- Samples lost
- Phlebotomy performance
- Scanning rates