

# **Implementation of BloodTrackTx® into Leeds Teaching Hospital NHS Trust**

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January 17<sup>th</sup> 2023

# Where do I begin?

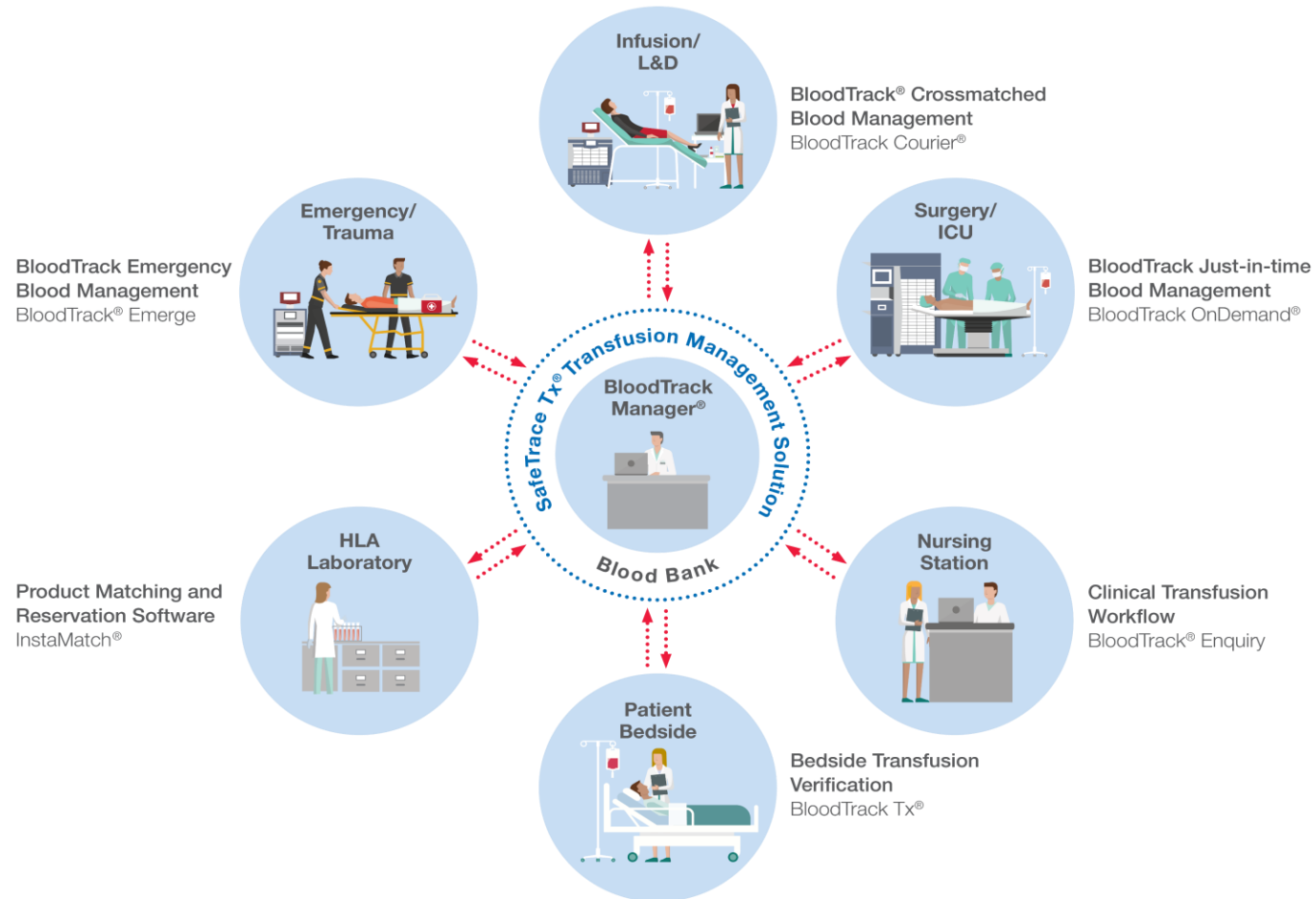
- ❖ Background
- ❖ Information Gathering
- ❖ Project Team
- ❖ Training Workstream
- ❖ Present Day



# Electronic Blood Transfusion System

***‘Use of an electronic blood tracking system (such as BloodTrackTx®) is no longer an innovative approach to safe transfusion practice, it is the **standard that all should aim for**’***

# Ideal World in Leeds!



## **Background- Leeds from 2005 to 2018**

- ✓ In 2005 Leeds Transfusion lab and TP Team introduced Haemonetics BloodTrack Autofate to ensure traceability
- ✓ 2 business cases presented to introduce EBL to help promote but not seen as being the “right time” by the Trust
- ✓ 2018 MHRA inspection that highlighted that LTHT did not have an updated risks assessment for NOT introducing the 2 sample rule
- ✓ WBITs were highlighted during the MHRA inspection
- ✓ Clinical directors, senior management teams and MHRA wanted assurance that transfusion samples were taken and labelled safely across all 5 hospitals

## Decision to introduce EBL -2018

***‘The use of secure bedside electronic patient identification systems reduces this risk; however, in the absence of such systems, it is highly recommended that a second sample is requested for confirmation of the ABO group of a first time Patient’***

- ✓ Trust complied with National Guidance and ensured that patient safety was enforced
  - ✓ Decided to build on the existing Haemonetics system and introduce/invest in
  - ✓ BloodTrackTx®- sampling
  - ✓ BloodTrack Administration
  - ✓ Haemobanks
- 
- ✓ However still had to call the Clinical Lead to ask if “are we getting this or what?”

# Procurement

**£1.4 million bought us**

- 200 PDA's and Printers
- 19 Haemobanks across all 5 sites
- Training module on Bloodtrack
- Band 7 TP post to implement and maintain
- Videos to aid training
- 20 Wristband printers and cartridges
- More bought than any other hospital in the UK-

## Information Gathering

- ✓ 2019- no restrictions to travelling!
- ✓ Other TPs- pick their brains
- ✓ Trips to other hospitals that had implemented a similar system

### **What did we want to know**

- What did it look like
- How did it work
- Hints and tips to introduction
- What worked, what didn't
- Networking
- Nice food and sights!!!



## Project Team

- ✓ Agreed very early on in the project to set up project teams
- ✓ Workstreams identified-IT, lab and training with expert leads
- ✓ Project lead- -not soon enough
- ✓ IT not involved in the business case and had covid to deal with
- ✓ TP's designated to Training Workstream
- ✓ Assurance board-Senior Pathology Management, lab staff, IT and associate director of operations for the trust, Communication team

## Training and implementation-or so we thought

- ✓ Full Steam ahead-scoping and networking on 1 ICU
- ✓ Training plan-to implement sampling, admin and HB's in one go
- ✓ Base ourselves in ICU for 4 weeks
- ✓ They already had a part functioning Haemobank
- ✓ 12 hour days for the training team-capture days and nights
- ✓ Learn the process and reflect on what improvements can be made

# Reflection- Background, Procurement and Project Team and initial Training

## **What went well?**

Funding approved of 1.4 million

Band 7 TP for training lead

Equipment-configured by IT

Working HB in the lab to use for training

Working to strength-linked with CE's, Matrons and Medicss

Networking-did lots of this-they were keen to trial

## **What could we have done better?**

Widened our focus group- why did we not include our users

No discussion about what equipment we really needed

Did not appreciate that what works in one hospital may not work in another

Band 7- TP? Could money have gone to a project lead?

How do we record the training- new system-CHS 132

Did we appreciate the enormity of this

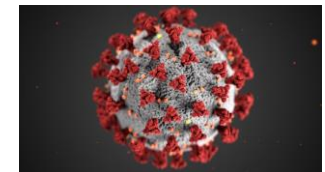
April 2020



Plans changed-

Introduce sampling only

Restriction to teaching-



Covid

Readdress all what we had  
planned

## Training- Major Operation

- PPT on ESR platform-make friends not enemies
- Video
- Training Project team-met fortnightly
- Who needs to know- the whole trust!!
  - HONs
  - Matrons, Team leaders clinical areas
  - Clinical Educators
  - Medics
- Screen savers, bulletins, Start the week
- Scope each area-Eqt, times to train
- Extra staff on board

Given go ahead to train F2F

Covid experts on cleaning and PPE

**Decide plan of action**

Pilot

**Then**

areas at risk of 2 sample rule first then rest of Trust CSU by CSU

Pilot-area of high usage

Haematology day ward

2 weeks HTT presence

Evaluate then into the rest of the trust

# Reflection on Pilot and scoping

## What went Well

Staff receptive

scoping and being prepared

Picked it up quickly

Found it easy to use

F2F

Loved it-less rejections from the lab

Training tools

## What Challenges were there

print label after ID of patient

NHS numbers faded

Covid restrictions-social distancing-access to areas,PPE

Team Leaders busy with Covid and lack of staff

## And so it begins

Scope each area

Who needs the training? Where can we train? When best to train?

Areas where patients would have had one sample first

Pre-assessment, A&E, paediatrics, phlebotomists then the rest of the trust-CSU by CSU

6 weeks in each CSU

Start using as soon as trained

Whole trust trained in 6 months-2862 staff trained , 30 clinical educators and 101 trainers

TP-1.6 WTE

Extra help-1.2 WTE

Worked six am –six pm depending on need

Some weekends

Very tiring but equally satisfying when all areas using the Bloodtrack Tx system



# How did it Go

## What went well

- Training ward team
- Training trainers and CE's
- Could move quickly between CSUs
- Dedicated training team
- Don't think we spread covid!!!

## What were the challenges

- Wristband printers
- Wristbands for outpatients
- Clinical areas busy
- Training Doctors
- Areas in Trust not identified –samples coming to lab
- NHS numbers faded-zebra informed
- ID badges-forget
- medical students, bank staff and locums
- label rolls and faulty equipment
- Equipment going missing

Communication for all doctors to attend training  
Drop in sessions twice weekly for all to attend  
Audited written samples to highlight poor uptake –project board

Medical students-training in the Medical Hub  
Bank staff- all told attend the drop in sessions  
Locums –Training on induction to that CSU

Equipment checks two weekly in all areas and 6 weekly at peripheral sites  
BloodTrack Tx is on the daily ward assurance check for all clinical areas  
TP's available to action any problems

## Problems identified

PAS numbers-wristband identical

Pre-printing labels

Equipment not being charged

Staff not getting the training –could still handwrite

## **Zero tolerance to handwritten samples-**

**Trust wanted to pilot this first to see if safe to do so**

Sharing ID badges

Printing labels for others not trained

More work for those that were trained

Stopped the pilot as unsafe

Education and communication in ED

Bloodtrack Tx ED champions

Trust would not commit to zero tolerance and still haven't

## Where are we now?

93% of Trust use Bloodtrack Tx

Audit written samples daily and follow up

Embedded new culture-lots of staff now don't know any difference

Reduction in rejected samples

Still not implemented 2 sample rule

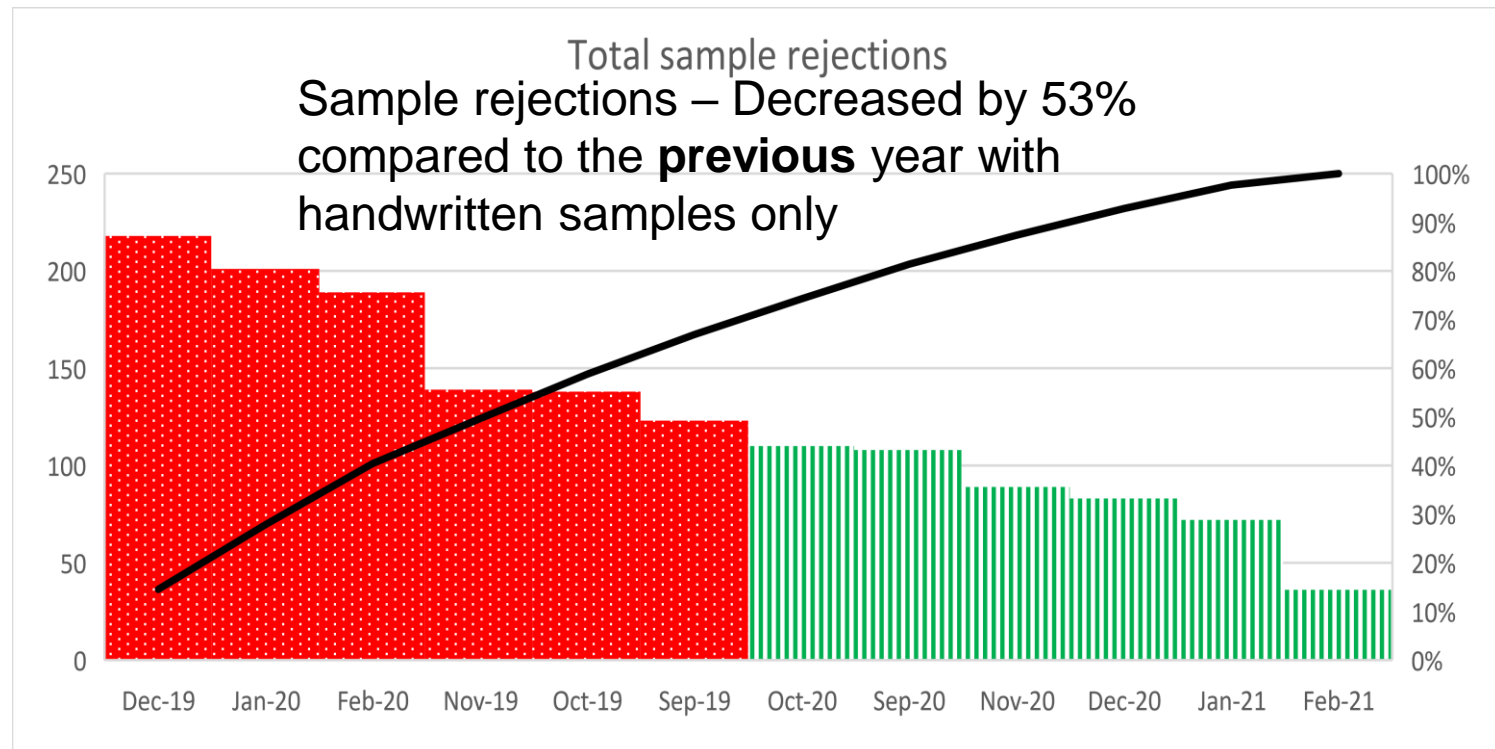
Minimal problems in clinical area

Two recent WBITS with BloodTrack Tx-is it safe to implement one sample with EBT?

Should it be a two sample rule regardless?

We now train using evidence of bad practice

# Quality improvement Projects-Kara Manning (BMS) and Stephanie Ferguson (TP) 2021



# What do staff think of Bloodtrack Tx



## References

-PHB Bolton –Maggs (ED)on behalf of the SHOT steering group, The 2017 Annual SHOT report (2018)

***Transfusion Medicine|GUIDELINESGuidelines for pre-transfusion compatibility proceduresin blood transfusion laboratories\*British Committee for Standards in HaematologyC. Milkins,1J. Berryman,2C. Cantwell,3C. Elliott,4R. Haggas,5J. Jones,6M. Rowley,3,7M. Williams8&N.Win***

