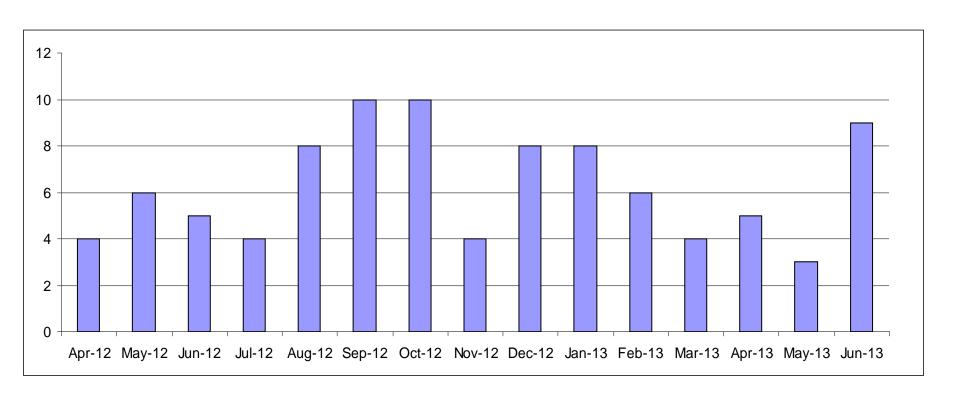
Wrong Blood in Tube: Where does the process go wrong?



- A sample of blood which is collected from one patient, but the labelling is that of another patient.
 - · Wrong patient blood, right patient details
 - · Right patient blood, wrong patient details
- Dangers
 - Wrong blood transfusion
 - Wrong treatment

NHS Foundation Trust

Size of the Problem



Number of Wrong Blood in Tube Incidents by month



- Observational study
- Focus group
- Process mapping



Standards

Standard

Standard 1 - Only the identified patient's blood request card is taken to their bedside.

Standard 2 - To identify each patient, an open question is used.

2a - Inpatient

2b - Outpatient

Standard 3 – Every inpatient's wristband is checked against the blood request form.

Standard 4 - All labelling of blood bottles is completed after the blood has been taken.

Standard 5 - All labelling of blood bottles is completed at the patient's side.

Standard 6 - All labelling of blood bottles is carried out by the person who carried out the blood-taking.

Standard 7 - The complete blood-taking task is completed in one go

Standard o The complete blood-taking task is completed by one person

Central Manchester University Hospitals MHS



NHS Foundation Trust

Observation Study

Profession (please circle)	Doctor/Nurse/Midwife/Phlebotomist/CSW				
Location					
	Please circle				
General					
Who requested the blood test?	Person takir	Person taking blood		Someone else	
Were the blood request cards for more than one patient taken	No		Yes		
to the bedside?					
Patient Identification	7				
Open question used to check patient details	Yes		No		
Wristband checked against blood request form	Yes		No		
Patient details checked against notes	Yes		No		
Sample labelling	7				
When was the sample bottle labelled?	After taking blood		Pre-labelled		
Where was the sample bottle labelled?	At patient's side	At bedside -	patient gone	Elsewhere	
How was the sample bottle labelled?	Handwritten		Sticky Label		
Sample bottle labelled by person who took the blood?	Yes		No*		
Final checks	7				
Sample checked against	Wristband	Bloo	d form	Not checked	
Where was the sample placed in a bag with its form?	At bedside		Elsewhere		
Overall task					
Task completed in one go:	Yes		No*		
Task completed by one person?	Yes		No		

- > 92 observations
- Manchester Royal Infirmary
- St Mary's Hospital
- Royal Manchester Children's Hospital
- > Inpatient
- Outpatient
- Accident and Emergency



Compliance ≥ 95%

Compliance 75% - 94%

Compliance ≤ 74%

Standard	Compliance (%)
Standard 1 - Only the identified patient's blood request card is taken to their bedside.	95% (87/92)
Standard 4 - All labelling of blood bottles is completed after the blood has been taken.	99% (91/92)
Standard 7 - The complete blood-taking task is completed in one go.	99% (91/92)



NHS Foundation Trust

Compliance - 75% - 94%

Compliance ≥ 95%

Compliance 75% - 94%

Compliance ≤ 74%

Standard		Compliance (%)
Standard 2 - To identify each patient, an open question is used.	2b - Outpatient	80% (37/46)
Standard 6 - All labelling of blood bottles is carried out by the person who carried out the blood-taking.		90% (83/92)
Standard 8 - The complete blood-taking task is completed by one person		90% (83/92)



Compliance ≤ 74%

Compliance ≥ 95%

Compliance 75% - 94%

Compliance < 74%

Standard		Compliance (%)	
Standard 2 - To identify each patient, an open question is used.	2a - Inpatient	61% (22/36)	
Standard 3 – Every inpatient's wristband is checked against the blood request form.		35% (16/46)	
Standard 5 - All labelling of blood bottles is completed at the patient's side.		28% (26/92)	





Who is taking blood?

Doctors	13
Nurses	26
Phlebotomists	28
Midwives	12
▶ HCSW	13



Why might WBIT happen?

- Labelling issues
 - Not labelling at the bedside
 - Not labelling using the wristband
- Work pressures
 - •So much work out there, so few staff. Blood room gets very busy.
- Communication issues
 - •The patient's first language might not be English.
- No wristband in clinic. One less identification measure.



Focus Group

How can we reduce WBIT?

- Staff
 - Add transfusion training on day of induction
 - Frequent updates of training
 - Make staff feel valued, less punitive culture
- Identification
 - Scan system on wards. Scan I.D band, scan the blood request card.
 - Check each separate form to make sure it's the right patient. Tick/highlight each separate sheet.
- Mobile printer -Requests & labels printed at bedside.
- More Trolleys
- Wear a tabard on the wards, "Do not disturb me, I'm taking bloods"

Process Mapping

Doctors

- Labelling 'take the blood bottles to the nurses' station or treatment room.'
- There was no mention of the use of open questions to identify the patient.

Midwives

'Read out the name on the card so patient can confirm.'

Phlebotomists

'Read out name to patient, so they can confirm.'



General Observations



Phleboto my trolley





Blood Room – St Mary's Hospital



Salient results:

- Open question to identify patient?
 - 61% of inpatients and 80% of outpatients
- Was request form checked against wristband?
 - 35% of inpatients
- Were blood samples labelled at patient's side?
 - 28% of samples



- Task factors
 - Shared workspace (phlebotomy)
 - Lack of space to label samples at bedside
 - Pressure of work
 - Interruptions
 - Punitive culture

Learning Points

- This is a new concept not done before
- Impact of human factors
- Importance of systems
- Valuing your staff
- Patient centred care
- Application to other areas



Where we are now.....

- Re-organise the layout of the phlebotomy room so phlebotomists do not cross paths or go to the same area to label/bag blood samples.
- Increase number of trolleys available
- Patient empowerment
- Work in progress



- Dr Sulaiman Hafez
- Dr Kate Pendry
- Dr Bolton-Maggs
- All the staff who took part in the focus group, process mapping and the shadowing