Staff responsible for wrong blood in tube incidents

Staff responsible for taking sample	Number of cases	Percentage of cases
Doctor	176	37.5%
Nurse	88	18.89/
Midwife	10	16.7%
Healthcare assistant	25	5.3%
Phlebotomist	32	6.8%
Medical student	1	0.2%
Unknown/not stated	69	14.7%
Total	469	100%

Many errors made by individuals who were competency assessed

	Number		Not competency	Not known
Errors with Anti-D lg	/	assessed	assessed	or blank
Pre-administration sample	18	3	2	13
Laboratory procedures	53	40	5	8
Collection of anti-D lg	20	11	4	5
Laboratory errors where the special requirements were not met	57	47	7	3
Incorrect blood component transfused				
Sample collection	8	2	1	5
Laboratory errors	68	52	9	7
Collection	11	9	2	
TOTAL n=235	235 (100%)	164 (69.8%)	30 (12.8%)	41 (17.4%)

Where are we now? 'Back to Basics'

Mistakes are about half of all reports to SHOT

- ✓ Identify the right patient and label the sample correctly
- ✓ Perform correct laboratory procedures including issue of correct component
- ✓ Identify and transfuse to the correct patient

Transfusion safety in hospitals: where are we now?

- Safety of hospital transfusion still an issue
- Poor education and training
- National, regional and local audits consistently show inappropriate use of 15-20% red cells and 20-30% platelets/plasma
- Low uptake of methods to avoid use of blood
- Evidence base getting stronger but more research needed
- Poor IT for blood safety and for providing data on blood usage

"Our vision" in Oxford

To develop and implement process change in hospital transfusion supported by IT to:-

- Enhance patient safety
- Reduce the administrative burden for clinical staff
- Optimise our use of resources (reduce blood use and blood wastage)
- Achieve compliance with tightening statutory and governance requirements
- Ensure the rapid availability of blood for urgent transfusions

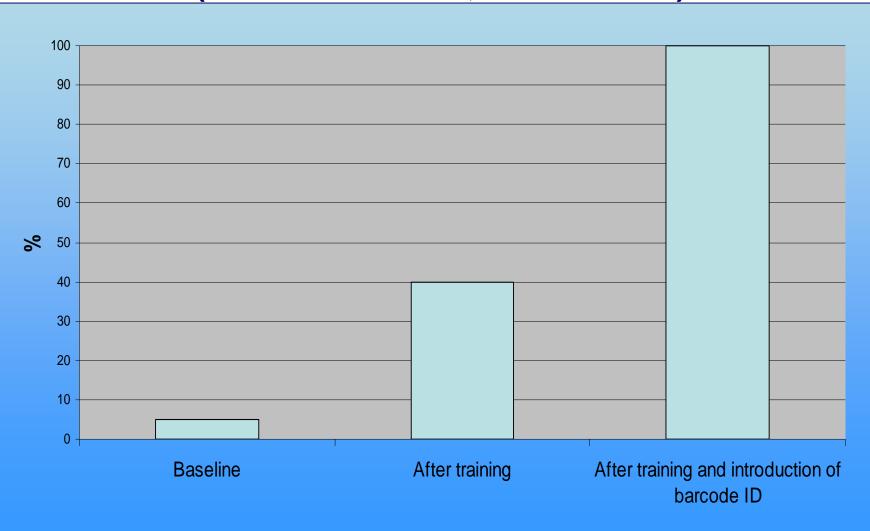
End-to-end electronic transfusion

Bar-coded patient ID on the wristband is used to label the sample and blood bag Davies et al. *Transfusion* 2006; 46: 352-364

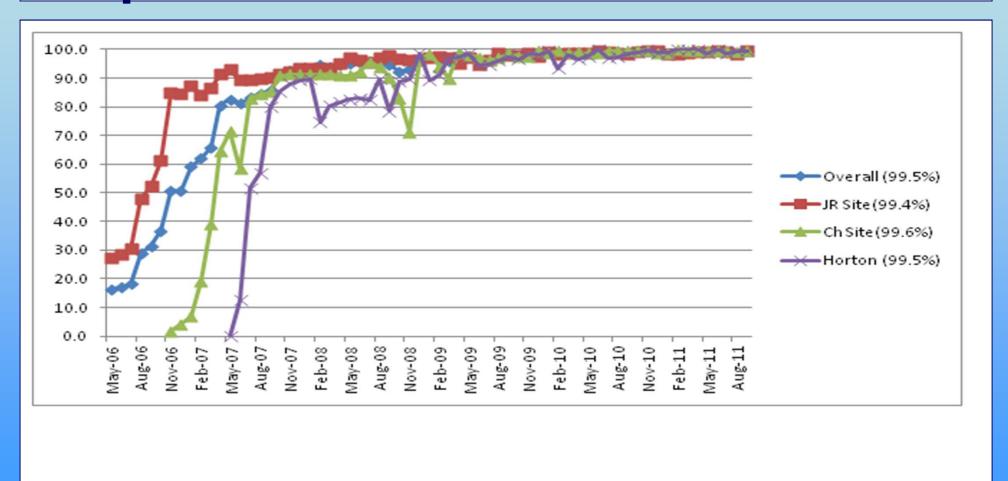


Compliance with pre-transfusion bedside checking on an haematology ward

(Transfusion 2003;43:1200-1209)



Use of the electronic process for the pre-transfusion bedside check



Benefits 2006-11

(125,000+ units red cells transfused) (Murphy et al. *Transfusion* 2012;52:2502-2512)

- No ABO incompatible red cell transfusions
- No serious wrong blood events
- Wrong blood in tube' reduced to 1 in 26,690 samples (national benchmark 1 in 3,000 samples)
- Compliance with blood traceability, competency assessment etc
- Less blood wastage
- Lower blood usage

Benefits 2006-11

(125,000+ units red cells transf (Murphy et al. *Transfusion* 2012;52

- No ABO incompatible received instrusions
- No serious wrong blo ✓ ✓ ✓ ✓
- 'Wrong blood in tu' ed by over 50% to 1 in 26,690 second ational benchmark 1 in 3,000 sar
- Compliance of South Competed South South Compe
- Less stage
- Lowe. d usage

National implementation of electronic transfusion systems in England

2007*

2010

Blood tracking

23/98 (24%) 55/116 (47%)

Bedside checking 12/98 (12%)

18/115 (16%)

Data from surveys of hospitals in England by the National Blood Transfusion Committee

* Murphy MF & Little T. Transfusion Medicine 2008; 18: 204-206.

Patient Blood Management (PBM)



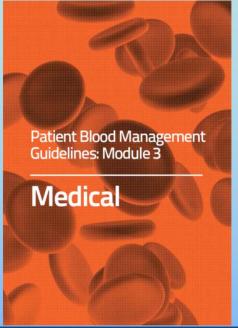
Getting Started in Blood

Management

James P. Außuchen, MD Kathleen Puea, MD Sunita Savena, MD Ira A. Shulman, MD



and



GETTING
STARTED in
PATIENT
BLOOD
MANAGEMENT



BB。
Advancing Transfusion and Cellular Therapies Worldwide

An evidence-based, multidisciplinary approach to optimising the care of patients who might need a blood transfusion

PBM includes:-

- Minimising blood sample volume
- Appropriate transfusion triggers
- Managing pre-op anaemia
- Intra- and post-op management e.g. cell salvage, assessing and managing abnormal haemostasis