

DELIVERING TRANSFUSION EDUCATION: CURRENT CHALLENGES ACROSS THE DISCIPLINES

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BBTS 2019



THANK YOU!

TRANSFUSION 2024

- National symposium in London, March 2019
- Hosted by NBTC and attended by many key stakeholders
- Forum for debate and discussion
- "Setting a 5-year strategy for clinical and laboratory transfusion practice"
- Building on previous strategies:
 - Better Blood Transfusion
 - Patient Blood Management

TRANSFUSION 2024

- Four themes:
 - Patient Blood Management
 - Transfusion Laboratory Safety
 - Harnessing Technology and Innovation
 - Transfusion and the Wider NHS
- Education represented in each of the themes
- Focussing today on issues relevant to laboratory-based education

TRANSFUSION 2024

- Outputs still being finalized
- Some challenges discussed relevant to education:
 - Increasingly pressured working environment
 - Increased staff turnover – training ‘burden’
 - Laboratory consolidation
 - Loss of highly skilled / experienced staff
 - Less specialized undergraduate training
 - Move away from supernumerary trainee posts

Table 5. Has the ability to train and mentor inexperienced staff altered during the last 2 years?

	2013	2015	2017
No remained the same	38	49	59
Yes, has become easier	9	6	11
Yes, has become more difficult	101	123	152
No answer	40	26	23
Totals (excluding no answers)	148	178	222

OTHER CHALLENGES

- “Not just content but delivery”
- “Incident-driven” teaching priorities
- Reviewing and sharing learning
 - What reflection is there?
- Study leave budgets (or lack of)
- Ability to attend external events
- Educating outside of biomedical science

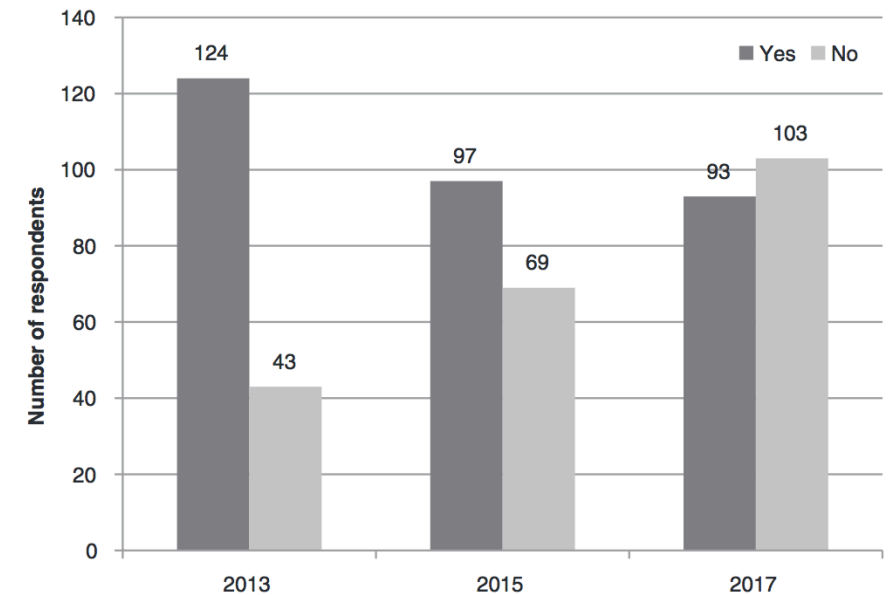


Fig. 4. Does your laboratory have a training and development budget?

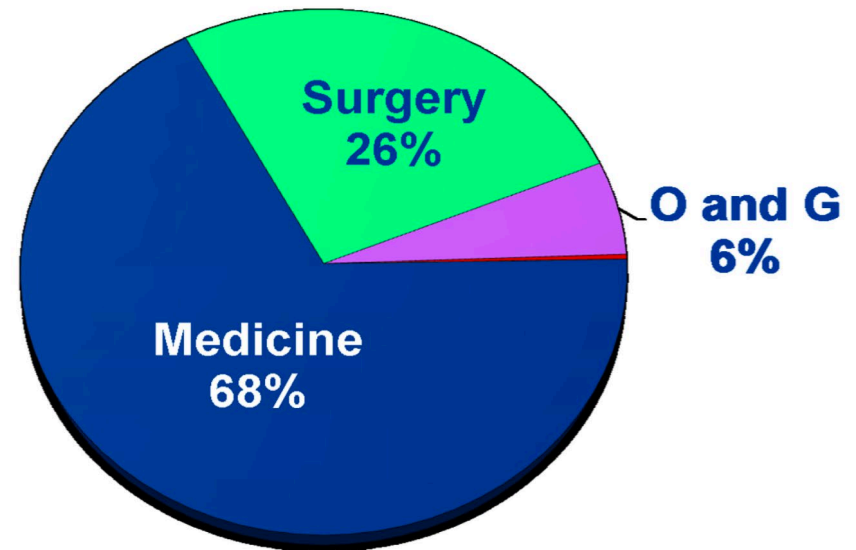
BEYOND BMS!



TRANSFUSION MEDICINE

Red Cell Usage by Category

NHS
Blood and Transplant



Rowley, M. 2015 NE RTC Presentation

TRANSFUSION MEDICINE



Blood an

Ess

Management of the fetus / neonate in a case of HDFN	
Neonatal exchange transfusion or intrauterine transfusion	
Investigation and management of suspected Neonatal Alloimmune Thrombocytopenia	
Transfusion in a patient with sickle cell disease	
Provision of blood and blood products to a patient who has undergone a recent allogeneic stem cell transplant	
Management of a severe acute transfusion reaction (including ABO incompatibility, anaphylaxis, infected unit, TRALI etc) – review cases published in SHOT report	
Case of therapeutic plasma exchange	
Management of chronic transfusion programme in patient with thalassaemia and/ or patient with MDS	
Massive transfusion in trauma, obstetrics or a GI bleed in a medical patient	
Selection of blood and pre transfusion testing where there are multiple RBC antibodies	
Management of patient refusing blood transfusion	

Additional cases	Date

Resources available:

1. Handbook Transfusion Medicine 5th edition 2014 www.transfusionguidelines.org
2. Practical Transfusion Medicine 4th edition 2013 Wiley-Blackwell
3. BCSH Guidelines – various at www.bcsguidelines.org (inc Apps now available)
4. The UK Blood services 'Red book' www.transfusionguidelines.org
5. NHSBT website for hospitals www.hospital.blood.co.uk
6. Learn Blood Transfusion elearning modules – various, ask Hospital Transfusion Team for access details
7. Patient information leaflets – various at <http://hospital.blood.co.uk/>
8. SHOT at <http://www.shotuk.org/>

JRCPTB, 2015.

TRANSFUSION MEDICINE



SHOT Bites

NHS
Blood and Transplant



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NHS
Blood and Transplant

Blood and Transplant Matters

Information for hospitals served by NHS Blood and Transplant

NHS
Blood Components App

e-L
e-Learning for Health

SHOT Bite No. 2: Anti-D Lessons and Highlights 2015

1. A list of all transfusion services (hospital and community, including mobile, and between both community and hospital) is available to all staff.	✓
2. All transfusion services are clearly identified by the name of the service and the name of the staff responsible for the service.	✓
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4. A list of all transfusion services (hospital and community, including mobile, and between both community and hospital) is available to all staff.	✓
5. A list of all transfusion services (hospital and community, including mobile, and between both community and hospital) is available to all staff.	✓
6. A list of all transfusion services (hospital and community, including mobile, and between both community and hospital) is available to all staff.	✓
7. A list of all transfusion services (hospital and community, including mobile, and between both community and hospital) is available to all staff.	✓
8. A list of all transfusion services (hospital and community, including mobile, and between both community and hospital) is available to all staff.	✓
9. A list of all transfusion services (hospital and community, including mobile, and between both community and hospital) is available to all staff.	✓
10. A list of all transfusion services (hospital and community, including mobile, and between both community and hospital) is available to all staff.	✓

SHOT Bite No. 3: Quick Reference Guide to Reporting

Transfusion Associated Circulatory Overload (TACO)	✓	SHOT Bite No. 3: Quick Reference Guide to Reporting
Transfusion Associated Lung Injury (TALI)	✓	SHOT Bite No. 3: Quick Reference Guide to Reporting
Transfusion Associated Anaphylaxis (TAA)	✓	SHOT Bite No. 3: Quick Reference Guide to Reporting
Transfusion Associated Graft Versus Host (TGVH)	✓	SHOT Bite No. 3: Quick Reference Guide to Reporting
Transfusion Associated Thrombotic Thrombocytopenic Syndrome (TATTS)	✓	SHOT Bite No. 3: Quick Reference Guide to Reporting
Transfusion Associated Pyrexia (TAP)	✓	SHOT Bite No. 3: Quick Reference Guide to Reporting
Transfusion Associated Hypotension (TAH)	✓	SHOT Bite No. 3: Quick Reference Guide to Reporting
Transfusion Associated Hypertension (TAH)	✓	SHOT Bite No. 3: Quick Reference Guide to Reporting
Transfusion Associated Hypoxia (TAH)	✓	SHOT Bite No. 3: Quick Reference Guide to Reporting
Transfusion Associated Hyperoxia (TAH)	✓	SHOT Bite No. 3: Quick Reference Guide to Reporting

BIOMEDICAL SCIENCE



[Advanced transfusion science masterclass](#)

[Blood centre tour](#)

[Portfolio workshop \(registration portfolio version 4\)](#)

[Practical introduction to transfusion science](#)

[Presenting conference posters](#)

[Specialist transfusion science practice](#)



UK NEQAS
Haematology and Transfusion

STRATEGIES TO MOVE FORWARD

- Must be an emphasis on the learner's responsibility
- Identify a learning 'champion'
- Put teaching sessions in the diary
- Try to promote a culture of Q&A
- Ask your transfusion haematologist to help!
- Point people towards good resources

INNOVATIVE SOLUTIONS

- Networking!
- NHSBT / RCI involvement

NEWCASTLE: MICROCOSM



INNOVATIVE SOLUTIONS

- Networking!
- NHSBT / RCI involvement

CONCLUSION

- There are lots of excellent resources out there to point people towards
- You don't have to do everything yourself
- It is good to have an engaged and supportive haematologist
- Looking beyond just our own hospitals has great potential merit