

Empowering transfusion laboratory staff

Why do we need it and what are the barriers to
overcome?

Helen Maria
Transfusion Specialist

Obstacles

- What is the role of a biomedical scientist?
- Input from senior BMS colleagues
- Support from haematology medical staff
- Transfusion committee and trust board commitment

Myths to bust!

Myth 1

‘We’re just here to provide
a service – no questions
asked’

Better Blood Transfusion 3



Health Service Circular

Series Number: HSC 2007/001
Gateway Reference: 9058
Issue Date: November 2007

Better Blood Transfusion *Safe and Appropriate Use of Blood*

- Avoid the unnecessary use of blood and blood components in medical and surgical practice

Objective	Action	By whom
Ensure the appropriate use of blood and the use of effective alternatives in every clinical practice where blood is transfused	<ul style="list-style-type: none"> • Implement existing national guidance (see Annex A) on the appropriate use of blood and alternatives 	HTCs and HTTs working with clinicians

	<ul style="list-style-type: none"> • Establish local protocols to empower blood transfusion laboratory staff to ensure that appropriate clinical information is provided with requests for blood transfusion. 	HTCs and HTTs working with clinicians, pathology managers and blood transfusion laboratories
	<ul style="list-style-type: none"> • Establish local protocols to empower blood transfusion laboratory staff to query clinicians about the appropriateness of requests for transfusion against local guidelines for blood use 	HTCs and HTTs working with clinicians, pathology managers and blood transfusion laboratories

Patient Blood Management

- Evidence-based **multidisciplinary team** approach to optimising the care of patients who might need transfusion
- Focuses on measures for blood avoidance as well as **correct use of blood components when needed**
- Improves patient care – **optimises use of donor blood** and reduces transfusion-associated risk
- Reduces financial costs

Where do BMSs fit in to PBM?

- Collective responsibility to ensure appropriate use of blood:
 - Blood conservation
 - Falling blood stocks
 - **PATIENT SAFETY**
- Need to be a service which advises and challenges to:
 - protect a vital and finite blood supply
 - Help prevent patients receiving inappropriate transfusions



Myth 1

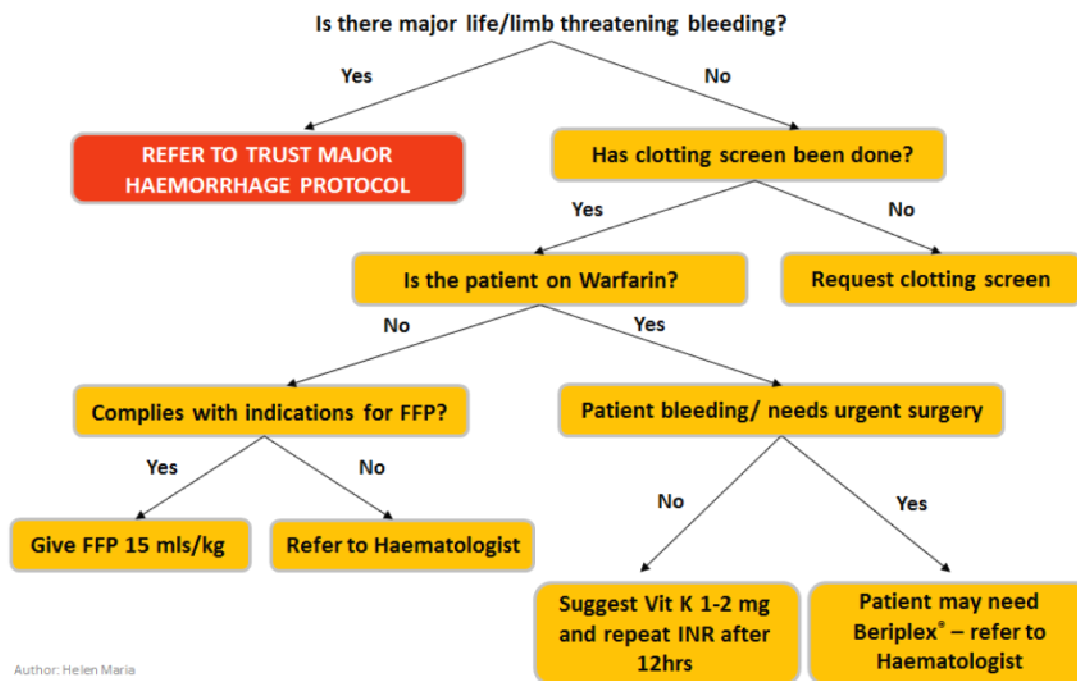
‘We’re just here to provide
a service – no questions
asked’

MYTH BUSTED!

How do we do this?

- Lab staff should aim to be 'gate keepers'
 - Collective responsibility, blood stocks, patient safety etc. etc.
- BUT be mindful of urgency and clinical situation and not delay blood provision....tricky!
- Review all requests – know the clinical details up front
 - Active bleeding? If not:
 - Check Hb
 - Check clotting for FFP
 - Demand blood tests before issue if non-urgent
- Clear guidelines (lab and clinical)
- Good support from haematology medical staff
- Transfusion Committee help
- Trust Board backing

FFP Algorithm



Author: Helen Maria
Approver: David Fisher
This version effective from May 2013
Q Pulse no: NOT/BB/13/3

BLOOD COMPONENT USE - A GUIDELINE

Use of Red Cells

RUH transfusion thresholds

Healthy stable <65yrs	70 g/L
Healthy stable >65yrs	80 g/L
Cardiac/cerebral disease	90 g/L
Symptomatic	100 g/L
Chemotherapy	100 g/L
Active bleeding	100 g/L

Use of Platelets

Prophylactic	(x10 ⁹ /L)
Stable transient BM failure	10
Stable long term BM failure	only if bleeding
The above with risk factors for bleeding (e.g. fever)	20
Minor surgical procedure	50
Major surgery, epidural removal/insertion, liver biopsy	80
Ops in critical sites (brain, eyes, CNS)	100
Therapeutic	
Active bleeding	50
Massive transfusion	50
(recommend seek haematologist advice, esp. junior staff)	

Use of Fresh Frozen Plasma

- All requests for FFP must adhere to BCSH* guidelines
- All requests, excluding those involving major life-threatening bleeding, that do not comply must be discussed with a Haematologist

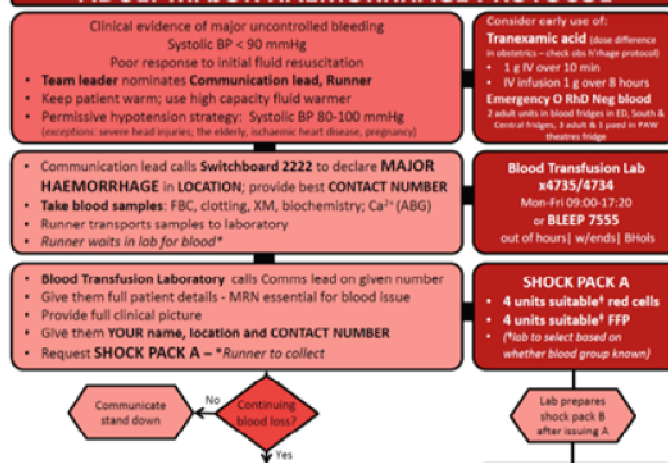
Indications

- **Reversal of Warfarin only if major bleeding or emergency surgery imminent (if Beriplex® unavailable or inappropriate – d/w Haematologist)**
- **Acute DIC based on coagulation tests**
- **Massive Transfusion**

Use of cryoprecipitate

Indicated in acute DIC where fibrinogen <1.5 g/L
Used in Declared Major Haemorrhage where fibrinogen <2.0 g/L

ADULT MAJOR HAEMORRHAGE PROTOCOL



Myth 2

‘Doctors know more than
us about blood
transfusion’

- Transfusion education in medical school?
- F1/F2s taught on induction...
- Pick up practice on wards...good and bad
- Consultants out of date
- Outside Haematology, small part of clinical knowledge
- They need support

- Laboratory staff complete lengthy training and education in blood transfusion
- Annual competencies, CPD programme
- Quality assurance
- Knowledge extensive in this area
- Can offer valuable support and advice

Myth 2

‘Doctors know more than
us about blood
transfusion’

MYTH BUSTED!

Myth 3

‘I don’t have the authority to challenge’

Facts

- Be aware of your position in the clinical pathway – does the buck stop with you?
- Know your rights and responsibilities
- BMS: HCPC registration – must take responsibility for own actions
- Medical staff: GMC and medical liability insurance
 - Doctors are paid to make difficult decisions and take ultimate responsibility for their patient
 - Your medics will make the difficult decisions

So what does that mean?

THIS IS IMPORTANT

- You have the authority to **challenge** a request, but...
- You do NOT have the authority to **refuse** it
- So...if you get a request that doesn't 'fit' the guidelines...(and the patient isn't *in extremis**)
 - Challenge it by referring them to trust guidelines
 - And if necessary...
 - Pass it up
 - Haematology medical team
 - Transfusion team
 - Act on advice

*pass details on after you've issued the request

To achieve this?

- Guidelines must be pragmatic and comprehensive, well evidenced
- Accessible to lab staff
- Accessible to medical staff
- Medical staff must know the lab staff will challenge requests
 - Medical induction/teaching
 - Governance meetings etc
- Good education for medical staff
- Changes hospital perception of labs
 - Will start asking labs for advice
 - Supportive service

Myth 3

'I don't have the authority to challenge'

MYTH BUSTED!

What if things get heated?

- Empathise
- It takes two...try not to get sucked in
- Always be polite and calm
- Try to be constructive and helpful
- This is where robust guidelines help
- Take their name and contact number
- Document everything

PASS IT ON TO A HAEM MEDIC

REMEMBER: no-one has the right to be rude or abusive

- there is a **patient** at the end of all this – it's not about you
- We're all on the same side – common goal
- You are part of a team – you will be supported by them

Essentials for an empowered blood bank?

- ✓ Educated, competent, supported and motivated team of BMSs
- ✓ Enthusiastic blood bank manager and TT
- ✓ Excellent clear guidelines for use of all components
- ✓ Supportive haematology medical team

Thanks!

Any questions?