

Implementation of Better Blood Transfusion 2



in a Hospital Trust

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Senior CNS Transfusion

Facts and Figures

- 6,500 staff
 - 1,000 doctors and dentists
 - 1,900 nurses
 - 920 support staff including 10 perfusionists
- Over 100 clinical areas
 - 1150 beds
 - 40 operating theatres
 - 1 helipad
- Local population – 605,000
 - Speaking 140 languages!



Transfusion activity 2002/03



- Group and screen samples 50,895
- Red cell units issued 52,373
- Red cell units used 28,548
- Platelets 5,423
- Fresh frozen plasma (FFP) 6,163
- Cryoprecipitate 1,963

Better Blood Transfusion



- Chief Medical Officers' seminar July 1998
- HSC published December 1998
 - Category: Clinical Effectiveness
- Hospital Transfusion Committees (HTCs)
- Guidelines and protocols
- Participation in SHOT
- Alternatives to transfusion

? Best way to improve hospital transfusion practice

- Increased education and training
- Appointment of a transfusion nurse
- Electronic bedside checking/patient ID
- Better attendance at HTC's
- Improved systems for data collection
- Consideration of alternatives

(responses from 186 hospitals)

Better Blood Transfusion 2

- Chief Medical Officers' seminar October 2001 revisited Better Blood Transfusion
- HSC published July 2002
 - Subtitled: Appropriate Use of Blood
 - Category: Public Health
- Very clear objectives
 - Hospital Transfusion Teams (HTTs)
 - Transfusion Practitioners

Hospital Transfusion Team



- Hospital transfusion practitioner
- Lead consultant for transfusion
- Blood bank manager

- Information analyst
- Admin and clerical support!

Transfusion Practitioner

- **Catalyst for change**
- Primary function: to improve hospital based transfusion practice
 - education
 - audit
 - risk management
 - alternatives to transfusion
 - patient information
- Interface between laboratory & clinical areas



BBT is an integral part of NHS care



- Senior management and Board level commitment
- Appropriate membership and functioning of HTC and HTT
- Policies are in place, implemented and monitored

*Improve the quality of service
through audit and CPD*



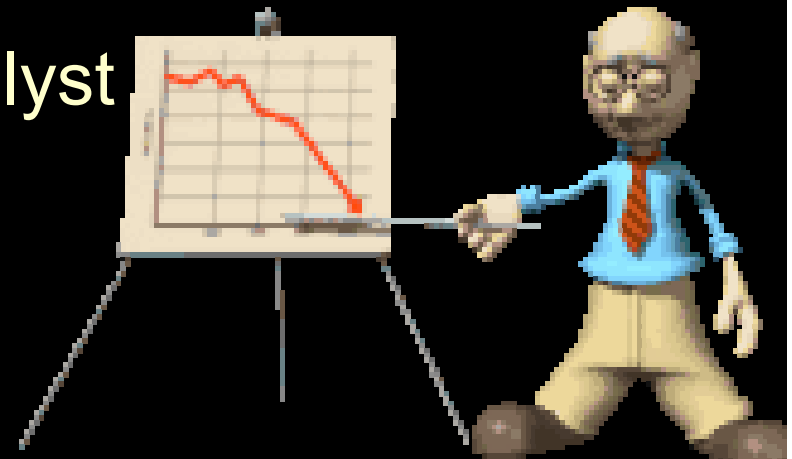
Education

- **Annual documented training for all staff**
- Qualified nurses and doctors at induction
- Pre and post basic nursing courses
- Clinical effectiveness half days
- Annual re-cert programme
- OSCE stations for nursing and medical students
- Workbook for updates
- Troubleshooting



Audit

- Staff knowledge
- Audit trail for all products
- Compliance with Trust policy
 - Multi-disciplinary
 - Feedback informs practice and education
- Blood Stocks Management Scheme
- Business case for data analyst
- Healthcare economics



Make blood transfusion safer

- Patient identification
- Investigate incidents & near misses
- Education - local incidents
- HTC - review policies/protocols
- Participate in SHOT
- CNST/CHI
- Look back exercises
- Litigation



Avoid unnecessary use of blood in clinical practice

- Inappropriate requests
- Maximum surgical blood order schedule (MSBOS)
- Pre-operative assessment
 - Preparing Patients for Surgery



Alternatives to transfusion

- No transfusion
 - nb iron deficiency anaemia
- Cell salvage
- Pre operative deposit
- Acute normovolaemic haemodilution
- Erythropoietin (EPO)
- Antifibrinolytics



Provide better information to patients and the public

- Verbal consent - benefits and risks
- Patient information leaflets
 - pre-admission
 - alternatives
 - in all clinical areas
 - handed out at teaching sessions

