

Patient Blood Management and transfusion services in the UK

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Overview

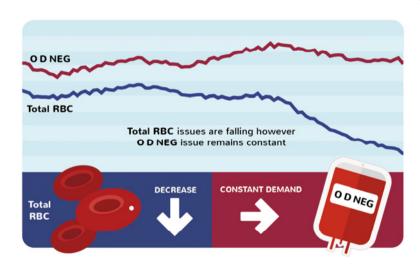


- Patient blood management
- UK transfusion services
- NHS Blood and Transplant PBM initiatives
- Key messages



NHS Blood and Transplant

Patient Blood Management



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

- Resource
- Hazards
- Cost















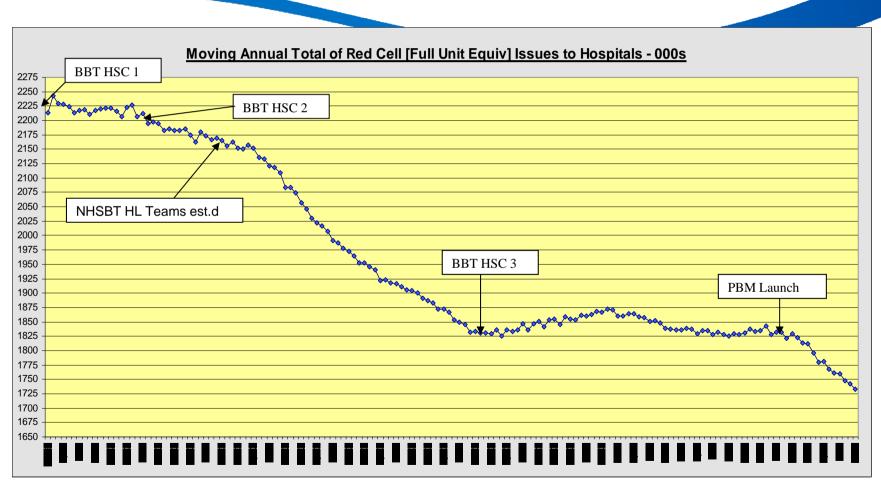


National Blood Transfusion Committee



Change in Red cell usage 1999-2014











Hospital teams:

Haematology consultant
Other doctors
Transfusion practitioners
Clinical nurse educators
Biomedical scientist/blood bank manager
Quality manager

NHSBT PBM teams:

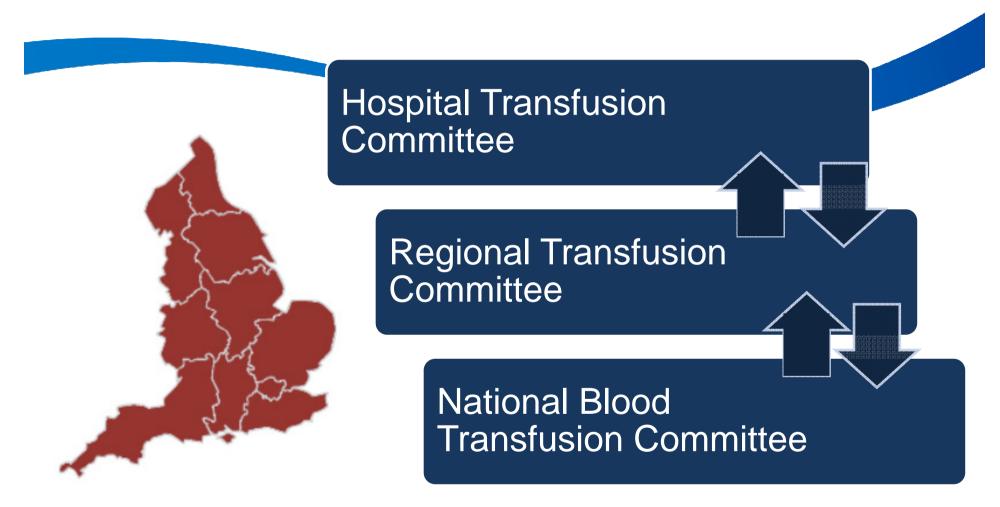
PBM practitioners
Consultant Haematologists

Education and Audit Team Research and Development

Transfusion Evidence Library and Systematic Reviews Initiative





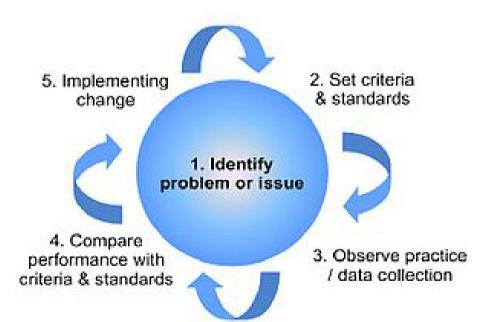




National Audits



- Benchmarking
- Evidence to support change



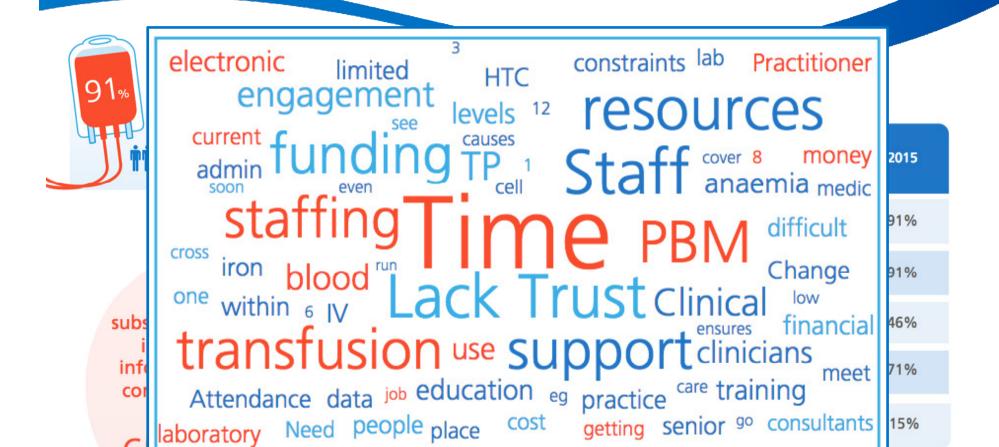
Recent examples

- Red Cell & Platelet transfusion in adult haematology patients
- Patient Blood Management in adults undergoing elective, scheduled surgery
- Palliative care
- Patient information and consent
- Blood sample collection and labelling



2015 Survey of Patient Blood Management









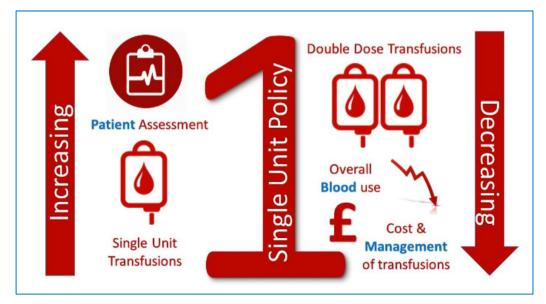
Single unit transfusions Blood and Transplant

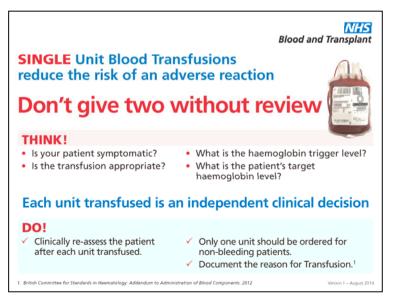
Pilot study in London

28 → 55% single unit transfusions "do once and share"



"Transfuse one dose of blood component at a time e.g. one unit of red cells or platelets in non-bleeding patients. Reassess the patient clinically and with a further blood count to determine if further transfusion is needed."



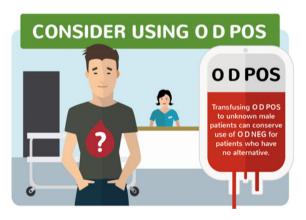








- O RhD negative blood demand remains constant
- Continual demand > supply
- National guidelines on strategies to reduce use



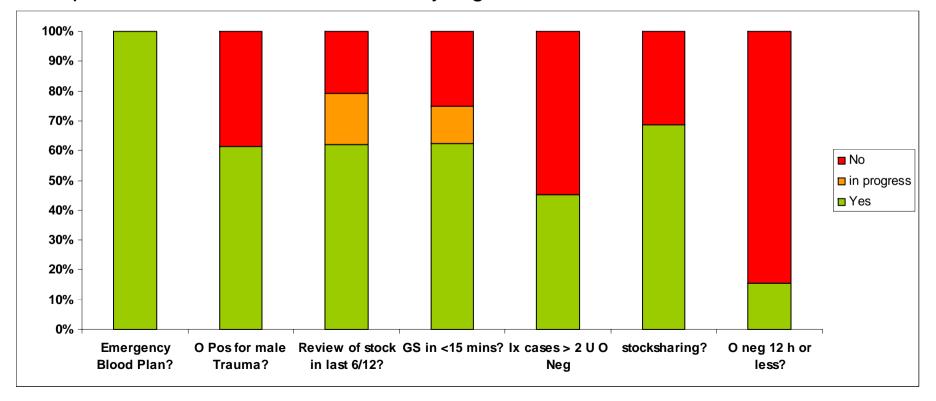


O RhD negative shortages 2016



Blood and Transplant

- 33 hospitals selected
 - higher than expected daily stocks
 - % O neg demand
- Hospital transfusion team contacted by regional PBM consultant







Improving health and social care through evidence-based guidance

Blood transfusion

NICE guideline [NG24] Published date: November 2015

- Baseline assessment tool
- Guideline algorithm
- Costing statement
- Key priorities for implementation

Recommendations

The guideline includes recommendations on:

- alternatives to transfusion for patients having surgery
- thresholds, targets and doses for red blood cells, platelets, fresh frozen plasma,
 cryoprecipitate, and prothrombin complex concentrate
- patient safety
- patient information

Who is it for?

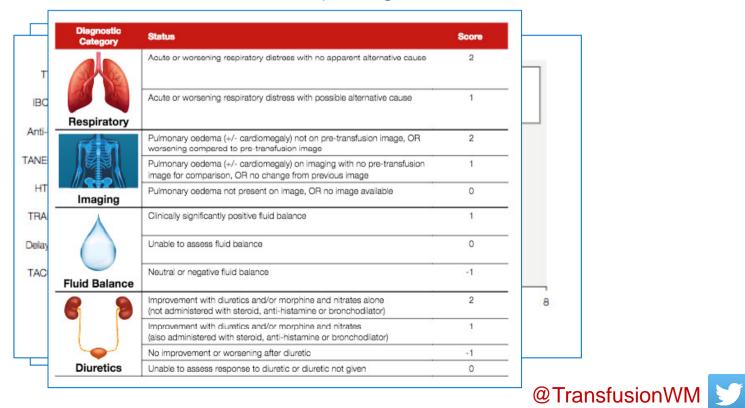
- healthcare professionals who assess for and manage blood transfusions and their alternatives
- commissioners and providers of transfusion services
- people over 1 year old who may need a blood transfusion, their families and carers







Serious Hazards of Transfusion = national reporting scheme







- 3. Only consider transfusing platelets for patients with chemotherapy-induced thrombocytopenia where the platelet count is < 10 x 109/L except when the patient has clinical significant bleeding or will be undergoing a procedure with a high risk of bleeding.
- 4. Use restrictive thresholds for patients needing red cell transfusions and give only one unit at a time except when the patient has active bleeding.

Evidence/guidance

- NICE Guidance: Blood transfusion
- 5. Only transfuse O Rh D negative red cells to O Rh D negative patients and in emergencies for females of childbearing potential with unknown blood group.

Academy of Medical Royal Colleges



Kate Pendry @KatePendry · Oct 26

I'm pleased to see one of our @UKchoosewisely transfusion recommendations in Daily Mail yesterday @RCPath @PBM_NHS



available such as iron treatment if

doing so,' he says. Some research suggests blood transfusions may subsequently raise the risk of stroke of the small breathing tubes in the lung — in children should get better without treatment. They should not be treated with medications called bronchodilators. which cause a widening of the small breathing tubes in the lung, as they have been shown to have little or no effect', say the new guidelines. Bronchodilators, such as salbuta mol or steroids, are used to treat asthma, where the airway muscles go into spasm. But they have no impact on bronchiolitis, in which the airways become irritated, generally by a viral infection, and are blocked by excessive production of mucus. Dr Daniels says that while the new advice is strictly correct, it's a slightly unfortunate message because most patients won't even have heard of bronchiolitis, lct alone

'If a parent is worried their child

know how to spot it.







Patient blood management focuses on patient care

Principles are evidence-based but simple Communication and education are key

