



Blood and Transplant



Gwasanaeth Gwaed Cymru
Welsh Blood Service

An Unexpected Journey

Janet Birchall
Medical Director
Welsh Blood Service

Serious Hazards Of Transfusion

SHOT

The UK National Health Service 1948 - 1999

Peter Greengross, Ken Grant, Elizabeth Collini

Until the 1990s the general management of the NHS was strictly controlled from the centre although clinical autonomy remained sacrosanct and little attention was paid to the processes of care that determine the major costs of providing healthcare.

1970's

Many layers of decision making – regional & area health authorities managed by boards

Decisions by consensus

Increasing costs

1979 Thatcher government

Area management layer removed

General managers → clear leadership, 1 individual at every level taking responsibility

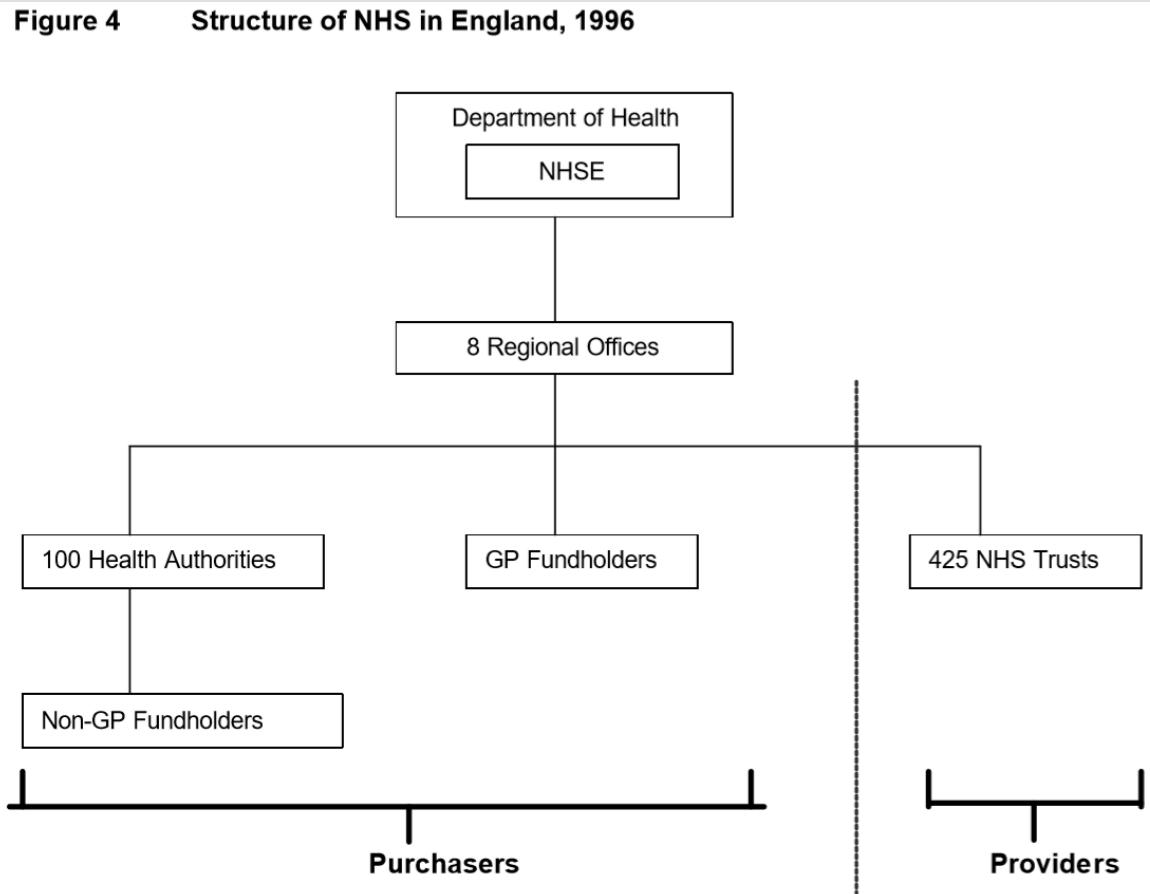
Clinical & professional staff accountable to manager – **except consultants**

1989 "Working for Patients"

Introduced to address↑ costs & promote competition to incentivise efficient, popular hospitals

The 1990's "Working for patients"

Figure 4 Structure of NHS in England, 1996



Recommendations

The introduction of an "internal market" through the **separation of providing services from purchasing** (or commissioning) them.

The promotion of **medical audit** and **job plans for consultants**.

Objectives

To reward efficient and popular providers; to create competition to improve the standards of service.

To increase the accountability of hospital doctors, including their clinical performance.

Calman Reforms -standardise & improve medical training
European Union Directive on Working Hours

The 1997 reforms: "The new NHS. Modern. Dependable"

Clinical Governance

National Institute for Clinical Excellence

Commission for Health Improvement

Patient Charter

Care in the Community

Dress code & ward



Technology



Laboratory



Office



Pneumocystis carinii Pneumonia and Mucosal Candidiasis in Previously Healthy Homosexual Men — Evidence of a New Acquired Cellular Immunodeficiency

Michael S. Gottlieb, M.D., Robert Schroff, Ph.D., Howard M. Schanker, M.D., Joel D. Weisman, D.O., Peng Thim Fan, M.D., Robert A. Wolf, M.D., and Andrew Saxon, M.D.

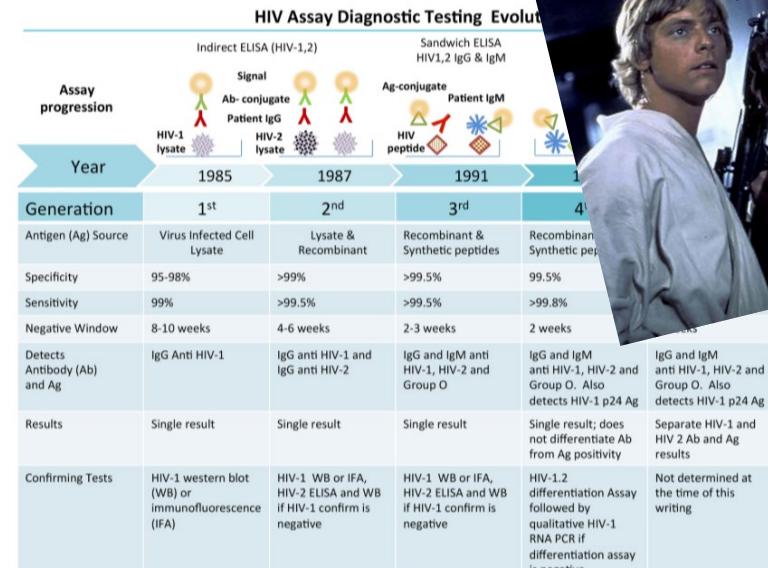
- 1988 – Breast screening introduced
 - 1988 - MMR jab introduced to replace single vaccines
 - 1983 – HIV, the virus that causes AIDS, is identified



Human Immunodeficiency Virus Diagnostic Testing: 30 Years of Evolution

Thomas S. Alexander

Summa Health, Department of Pathology and Laboratory Medicine, Akron, Ohio, USA, and Northeast Ohio Medical



News





Transfusion Medicine



Apheresis unit Bristol



Health Service Circular

Series number: HSC 1998/224
Issue date: 11 December 1998
Review date: 11 December 2001
Category: Clinical Effectiveness
Status: Action

Better Blood Transfusion

For action by:

Health Authorities (England): Chief Executives
Health Authorities (England): Directors of Public Health
Health Authorities (England): Finance Directors
NHS Trusts: Chief Executives
NHS Trusts: Medical Directors
NHS Trusts: Nursing Directors
Medical Schools: Deans
Post Graduate Deans

For information to: NHSE Regional Offices: Directors of Public Health
NHSE Regional Offices: Directors of Finance
Chief Executive: National Blood Authority
Medical Director: National Blood Authority
Professional Associations and Royal Colleges

Action

4. From March 1999, all NHS Trusts where blood is transfused should:
 - ensure that hospital transfusion committees are in place to oversee all aspects of blood transfusion
 - participate in the annual SHOT enquiry
5. By March 2000, all NHS Trusts where blood is transfused should:
 - have agreed and disseminated local protocols for blood transfusion, based on guidelines and best national practice, and supported by in house training
 - have explored the feasibility of autologous blood transfusion and ensured that where appropriate, patients are aware of this option. In particular they should have considered the introduction of perioperative cell salvage (PCS)
6. Clinicians, NHS Trusts and health commissioners should collaborate in taking forward these recommendations to develop a first class blood transfusion service.



Better Blood



Transfusion

Health Service Circular

Series Number: HSC 2002/009
Issue Date: 04 July 2002
Review Date: 04 July 2005
Category: Public Health
Status: Action

sets out a specific action on the part of the recipient with a deadline where appropriate

Better Blood Transfusion

Appropriate Use of Blood

Summary

This Health Service Circular replaces HSC 1998/224 *Better Blood Transfusion* and sets out a new programme of action for the NHS to:

- Ensure that *Better Blood Transfusion* is an integral part of NHS care
- As part of clinical governance responsibilities, make blood transfusion safer
- Avoid unnecessary use of blood in clinical practice
- Provide better information to patients and the public about blood transfusion

The programme of action should be considered in conjunction with Annex A of this circular that provides further detail on implementation.

There is an expectation that implementation/compliance to this guidance will be subject to inspection by CHI or its successor organisation.

A toolkit to assist Trusts is being developed and will be placed on the *Better Blood Transfusion* website and will include access to national guidance, patient leaflets and examples of good practice.

Patient Blood Management



National Blood Transfusion Committee

NHS

Patient Blood Management
An evidence-based approach to patient care

Forward
On behalf of NHS England, I am delighted to support the National Blood Transfusion Committee's Patient Blood Management recommendations.

Blood components are used to save and improve thousands of lives each year. Red blood cell usage in England has decreased by over 20% in the last 14 years, but national and large regional audits consistently show that 15-20% of red blood cell transfusion is not compliant with national guidelines. Recent meta-analyses show that restrictive red blood cell transfusion reduces mortality and morbidity. Everyone involved in blood transfusion needs to take responsibility for ensuring that blood transfusion is used appropriately.

Patient Blood Management is an evidence-based, multidisciplinary approach to optimising the care of patients who might need transfusion. It encompasses measures to avoid transfusion such as anaemia management without transfusion, cell salvage and the use of anti-fibrinolytic drugs to reduce bleeding as well as restrictive transfusion. It ensures that patients receive the optimal treatment, and that avoidable, inappropriate use of blood and blood components is reduced.

Patient Blood Management needs leadership and support at every level, from trust management, health professionals in hospitals, NHS Blood & Transplant and the National and Regional Blood Transfusion Committees. I commend these guidelines to all, and offer our thanks to the many professionals involved in their development.

Jo Martin
Professor JE Martin MA MB BS PhD FRCPPath
National Clinical Director of Pathology, NHS England

Date: Thursday, 26 June 2014

UK Red Cell Issues 2000 - 2018



UK Platelet Issues 2000 - 2018



UK FFP Issues 2000 - 2018



Evidence for the use of recombinant factor VIIa and treatment of bleeding in patients without h

Birchall J, Stanworth SJ, Duffy MR, D

Transfus Med Rev. 2008 Jul;22(3):177-86. MEDICINE

PMID: 18572094

Recomb
h' emc

NovoSeven®
Cooper UK Limited
Administered to patients outside the UK have not been established outside the EU
(2)C

Coch Novo Nordisk - contact details
PMID: When NovoSeven is administered, efficacy of NovoSeven have been shown to be similar to that of recombinant Factor VIIa. [View abstract](#) [.1;\(2\):CD00501](#)

Recombinant factor VIIa for the prevention

Recommendations for the prevention of bleeding in patients without haemophilia.

Lin Y, Stanworth S, Birchall J, Doree C, Hyde C

Cochrane Database Syst Rev. 2011 Feb 16;(2):CD005011. doi: 10.1002/14651858.CD005011.pub3. Review. Update in: Cochrane Database Syst Rev. 2013 Oct 10;(4):CD005011.

Syst Rev. 2012;3:CD005011

PMID: 21328270

VIIa for the prevention and treatment of
without haemophilia.

common ven should ev. 2012 Mar 14;(3):CD005011. doi:
11.pub4. Review.

South West RTC Use of rFVIIa

Hospital Stocks		2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Non-Haemophilia	1-5	12	11	11	12	12	12	10	9	10	9	9	5
	6-10	2	3	2	1	0	0	0	0	0	3	1	0
	>10	1	1	2	0	0	1	1	1	1	1	0	0

PMID: 30221749
Treatment of Haematological factors in a systematic review.

Haematological factors in a systematic review.

Williams A, Biffen A, Pilkington N, Arrick L, v...
S. J. M. B. J. H. J.

Smith M, Birchall J.

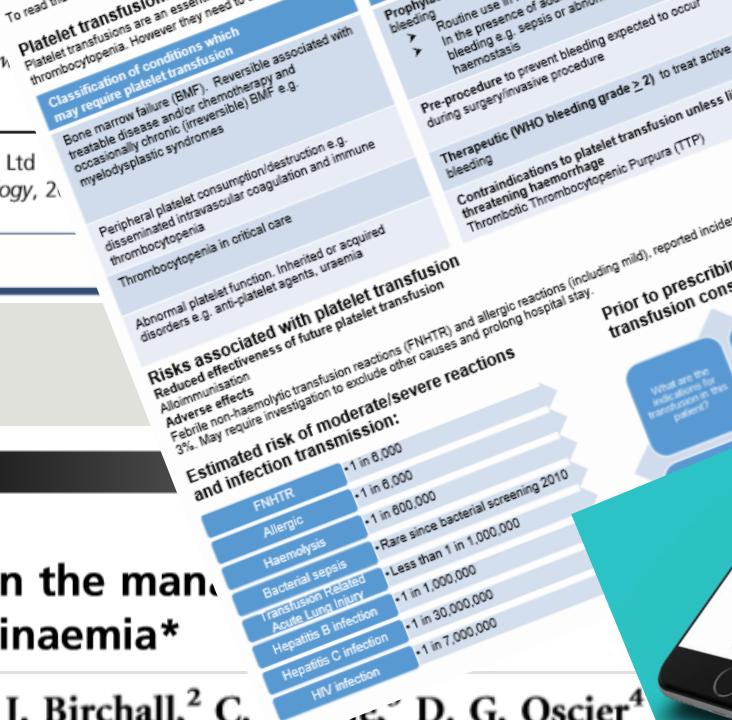
J Laryngol Otol. 2017 Dec;131(12):1093-1107. doi: 10.1017/S0022215117002067. Review

PMID: 29280698

Guidelines for the use of platelet transfusions

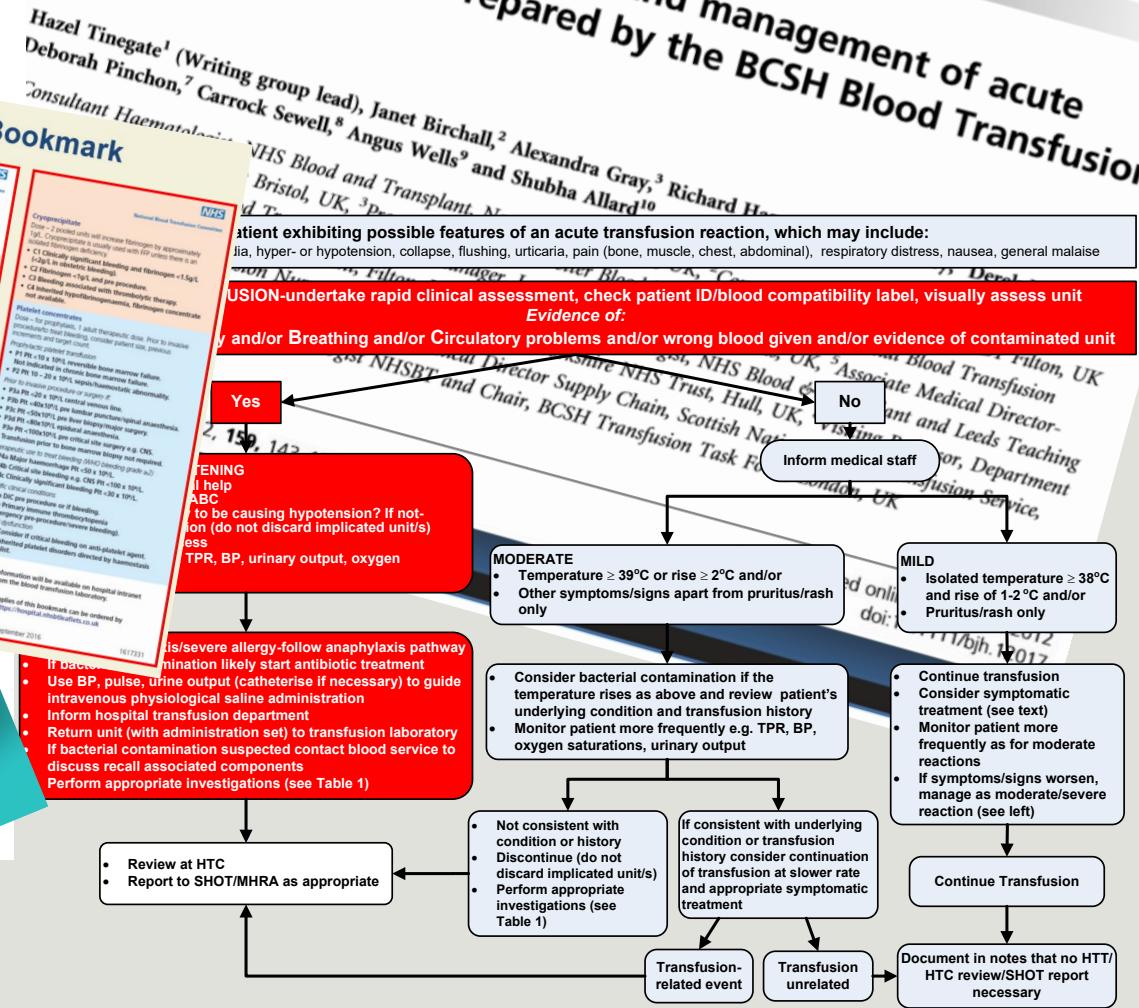
Lise J. Estcourt,¹ Janet Birchall (Writing Group Chair)², Shubha Allard³,
Peter Hersey,⁵ Jonathan Paul Kerr,⁶ Andrew D. Mumford⁷, Hazel Tinegate⁹
British Committee for Standards in Haematology

¹NHSBT and Radcliffe Department of Medicine, University of Oxford, ²Bristol NHS Trust, Bristol, ³NHS Royal Cornwall Hospital, Truro, ⁴Department of Haematology, Addenbrooke's Hospital, Cambridge, ⁵Department of Haematology, Royal Free Hospital, London, ⁶Department of Haematology, University Hospitals Southampton, Southampton, ⁷Department of Haematology, University of Oxford and ⁹NHSBT, New Malden, London, UK



Guidelines

Guideline on the investigation and management of acute transfusion reactions Prepared by the BCSH Blood Transfusion Task Force



oxSanguinis
International Journal of Transfusion Medicine

ORIGINAL PAPER

Platelet transfusions in haematology patients: are we using them appropriately?

J. Birchall,² D. Lowe,³ J. Grant-Casey,⁴ M. Rowley⁵ & M. F. Murphy¹
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NHS
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Platelet transfusions in them appropriately?

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⁵NHS Blood and Transplant, London and Imperial College London

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2010 Re-audit of Platelets in Haem:

April 2011





MOLLISON AWARD LECTURE, BBTS, HARROGATE, 19TH SEPTEMBER 2019

Journey's End Welsh Blood Service



100th Royal Welsh Show

To mark 100 years of the Royal Welsh Show, we are aiming for 100 visitors to discover their blood type!

[Click here to read more.](#)

