A Decade of Better Blood Transfusion in Scotland

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NHS National Services Scotland

On Your Marks…

Survey of transfusion knowledge and practice

Hospital Transfusion Committee set up (RIE)

1983

On Your Marks…

Post of **Senior Lecturer in Transfusion Medicine**

Academic Unit, SNBTS

Dr W. Murphy

Prof. ML Turner

1983 **1989**

On Your Marks…

Serious **H**azards **O**f **T**ransfusion

SNBTS represented on Steering Group

DR DBL McClelland, founding member

1983 **1989** **1996**

Get Set…

Effective **U**se of **B**lood Group

Better Blood Transfusion Continuing Education Programme

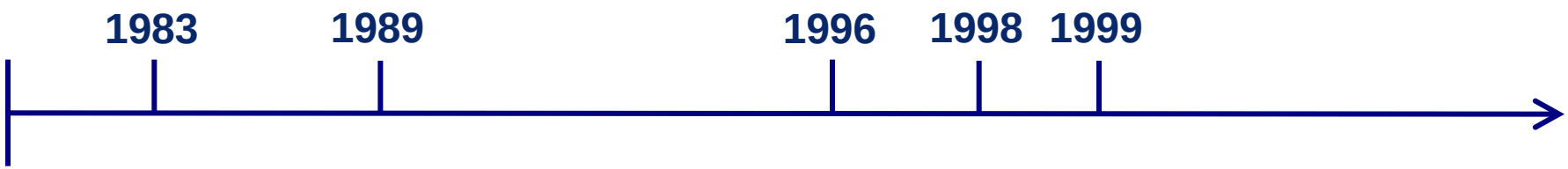
1983 **1989** **1996** **1998**

Get Set…

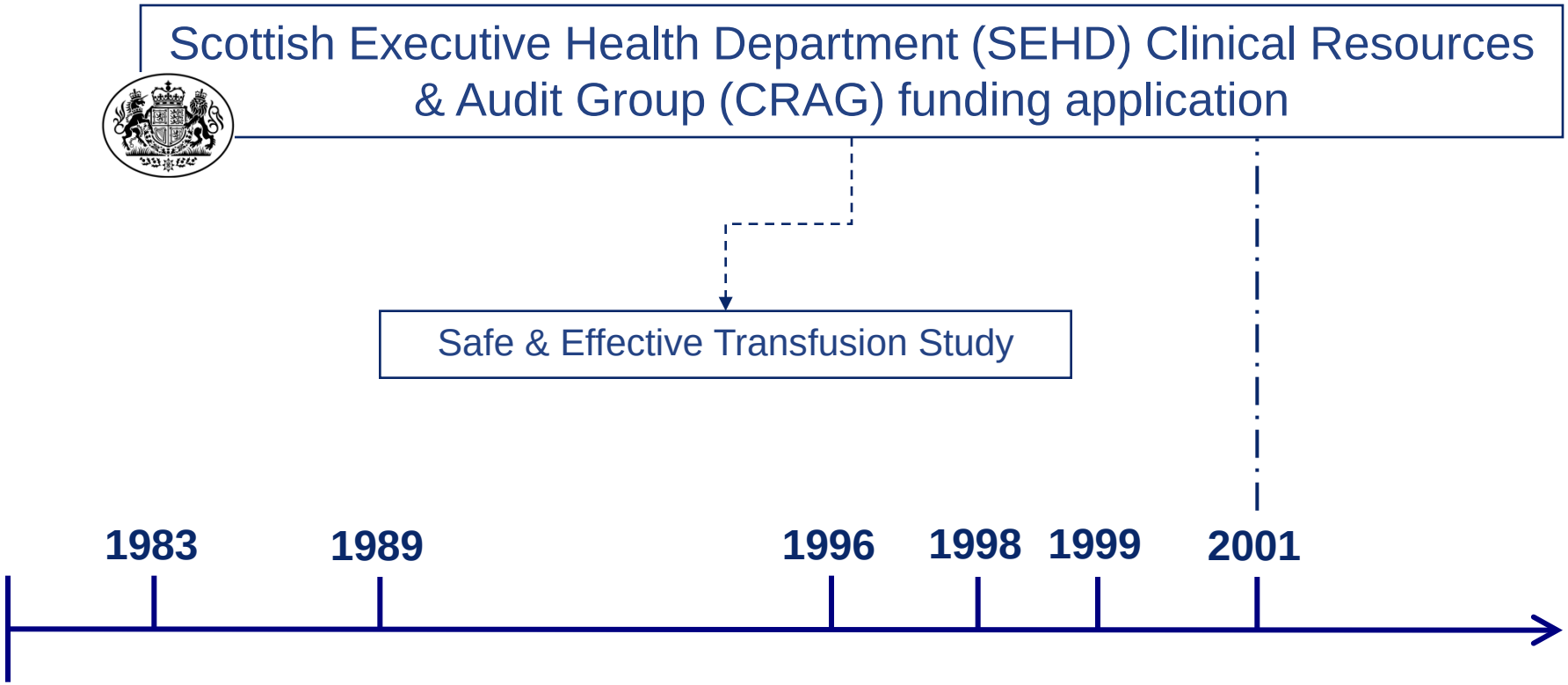
NHS MEL 1999 (9) Better Blood Transfusion

Key Recommendations:

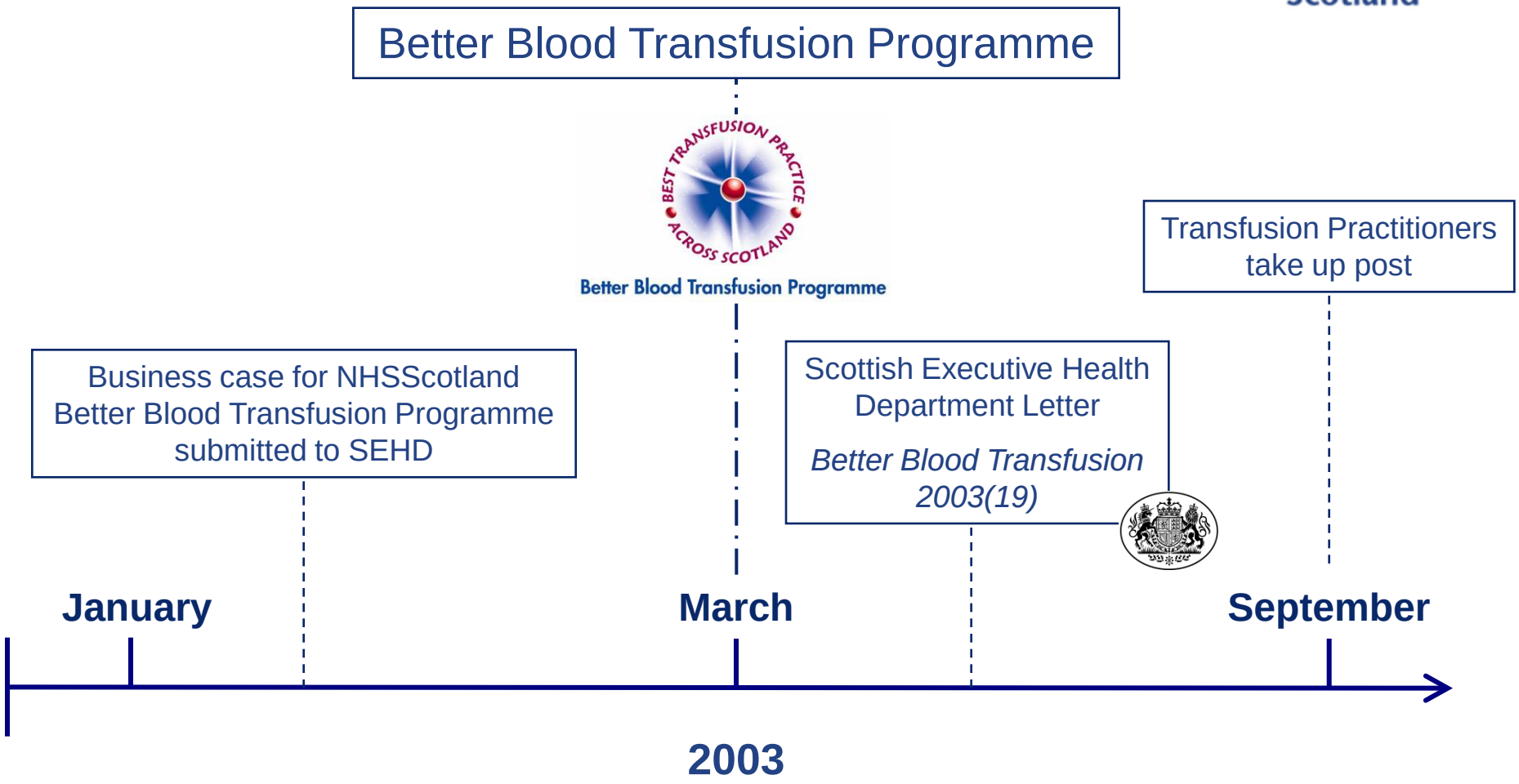
- HTCs in each Health Board
- Participation in SHOT
- Local Transfusion Policies
- In-house training in Transfusion
- Explore Cell Salvage



Get Set…


Scottish Executive Health Department (SEHD) Clinical Resources & Audit Group (CRAG) funding application
Safe & Effective Transfusion Study
1983
1989
1996
1998
1999
2001

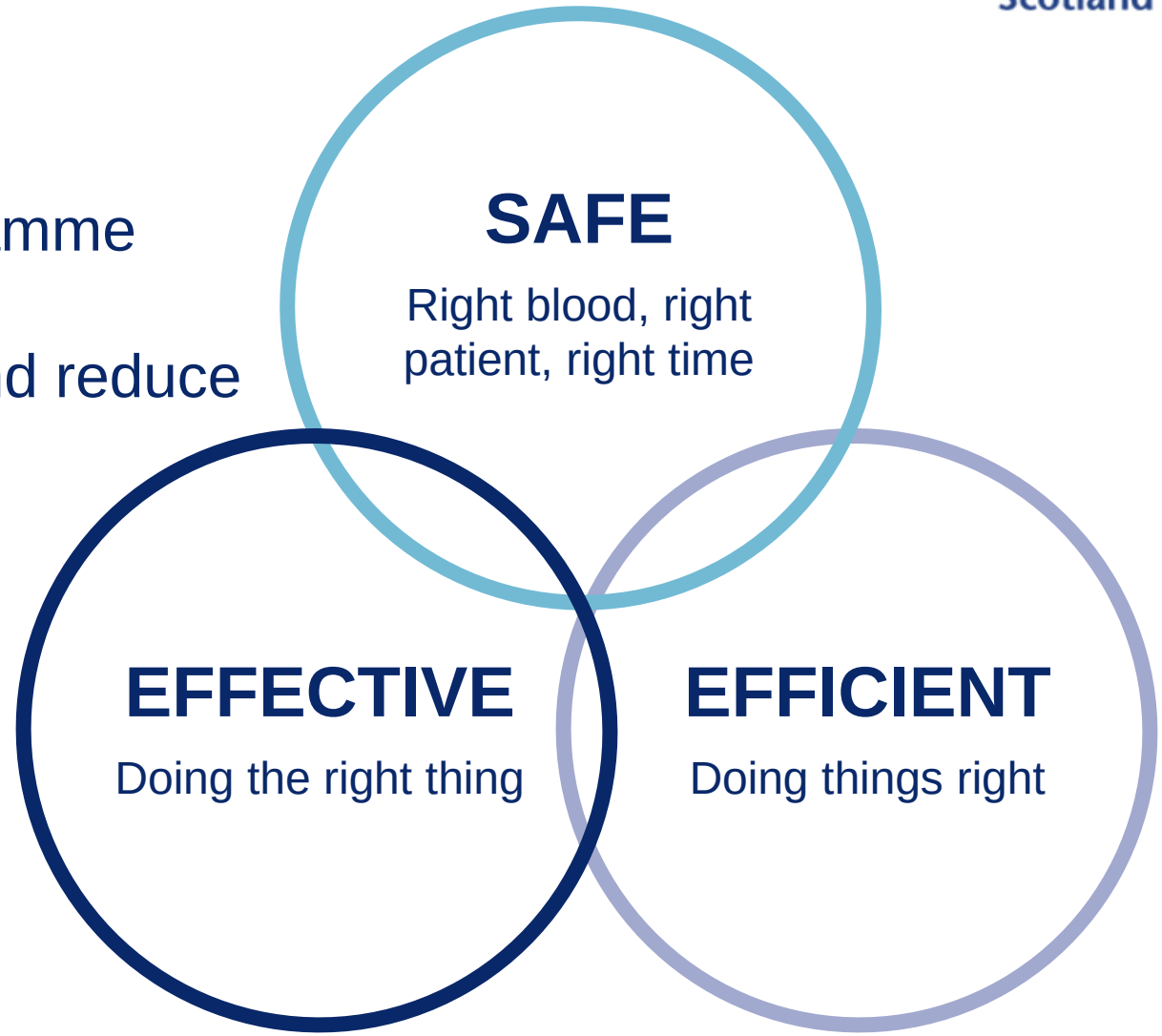
GO!


Better Blood Transfusion Programme
Better Blood Transfusion Programme
Transfusion Practitioners take up post
Business case for NHSScotland Better Blood Transfusion Programme submitted to SEHD
Scottish Executive Health Department Letter
Better Blood Transfusion 2003(19)
January
March
September
2003

BBTP Objectives

‘Establish a programme which will promote appropriate use and reduce risk to patients’

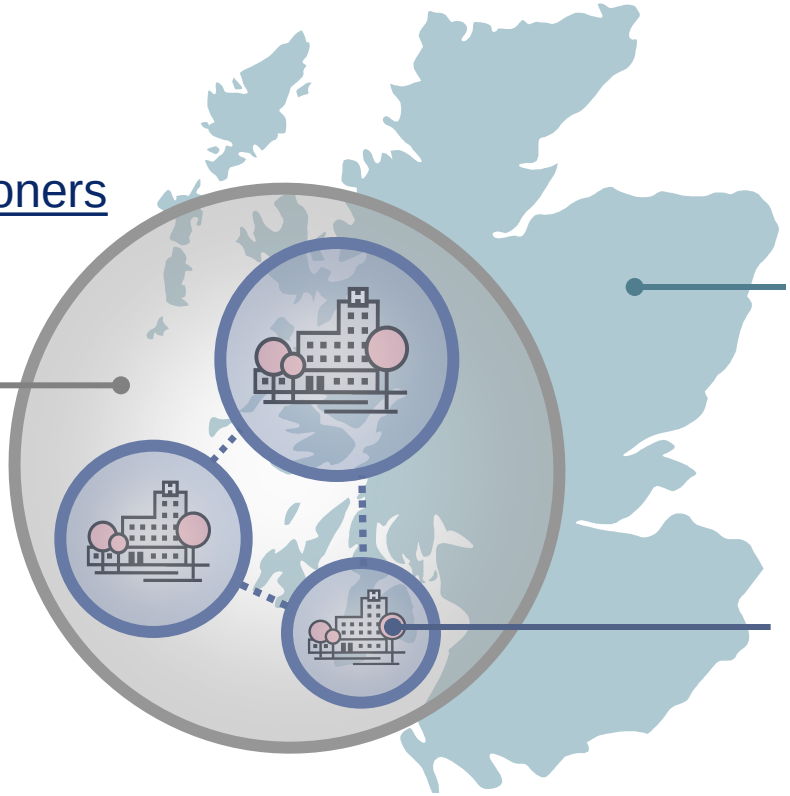
(NHS HDL 2003 (19))



BBT Programme Launch

Crieff, 2003

BBT Programme Structure - 2003



Transfusion Practitioners (TP)

18 TPs in 3 teams;
North, East and West
(mentored by EUB
Transfusion Nurse
Specialists)

Central Programme Team (CPT)

Programme Director
2 Programme Analysts
Office Administrator
(based in Edinburgh)

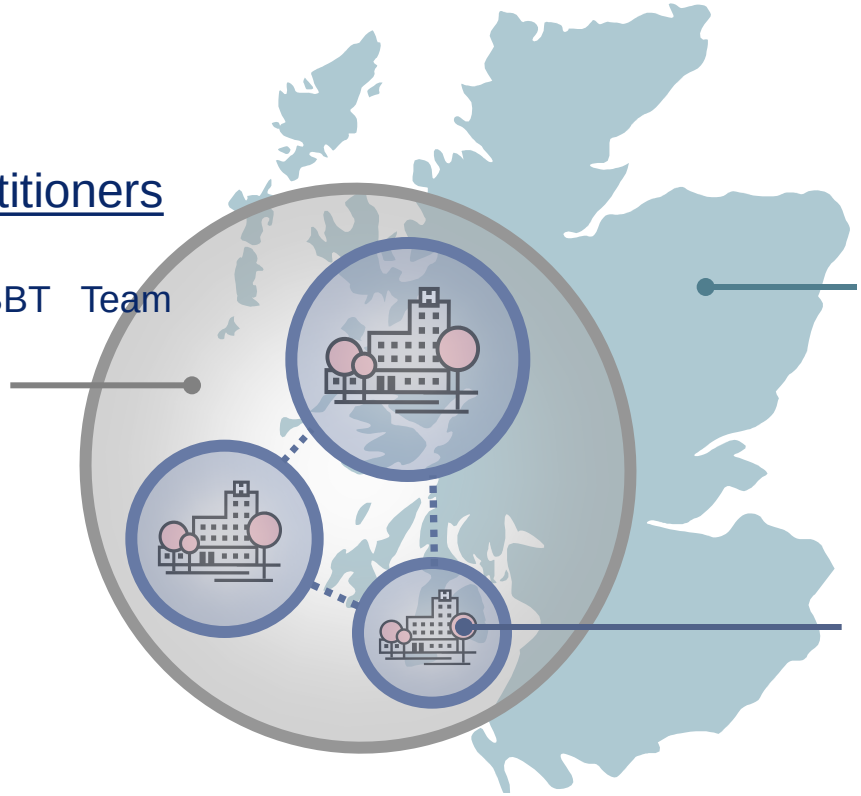
Hospital Transfusion Teams (HTT)

Lead Clinician
Laboratory Manager
Laboratory Quality Manager
Transfusion Practitioner

BBTP Steering Group

BBT Structure – 2008

EUB & BBTP Merge



Transfusion Practitioners (TP)

20 TPs managed by BBT Team Leads

Central Programme Team (CPT)

Expanded to include EUB members.

Hospital Transfusion Teams (HTT)

Lead Clinician
Laboratory Manager
Laboratory Quality Manager
Transfusion Practitioner

Scottish Clinical Transfusion Advisory Committee

Safe

Education and Training

In the beginning…

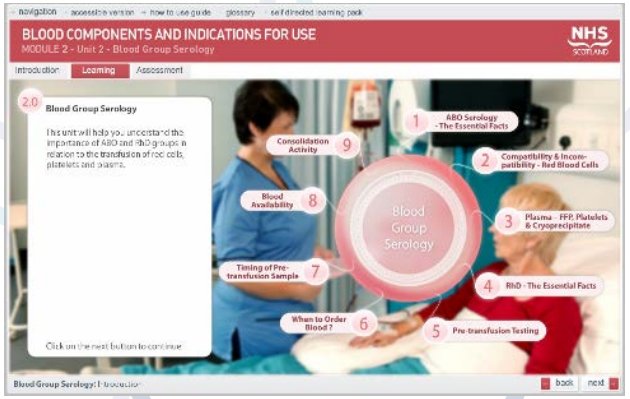
- Which members of staff require education?
  - No Training Needs Analysis
  - Variation of staff groups involved
- How do we manage training records?
- Difficulty accessing staff / venues / equipment
- eLearning introduced late 2004

Safe

Learnbloodtransfusion (LBT)

And now…

- Two original *LBT* modules have grown
  - 3 Core modules & 6 Specialist modules
  - More in development
- 80% of staff complete training online
- Currently **74%** of relevant NHSS staff have valid training in Module 1



Did You Know?

- Since 2004 over 78,000 NHSS staff have completed the *LBT* module: Safe Transfusion Practice

- Placed end to end, they would stretch from the foot of Ben Nevis to the summit 100 times!

Safe

Haemovigilance

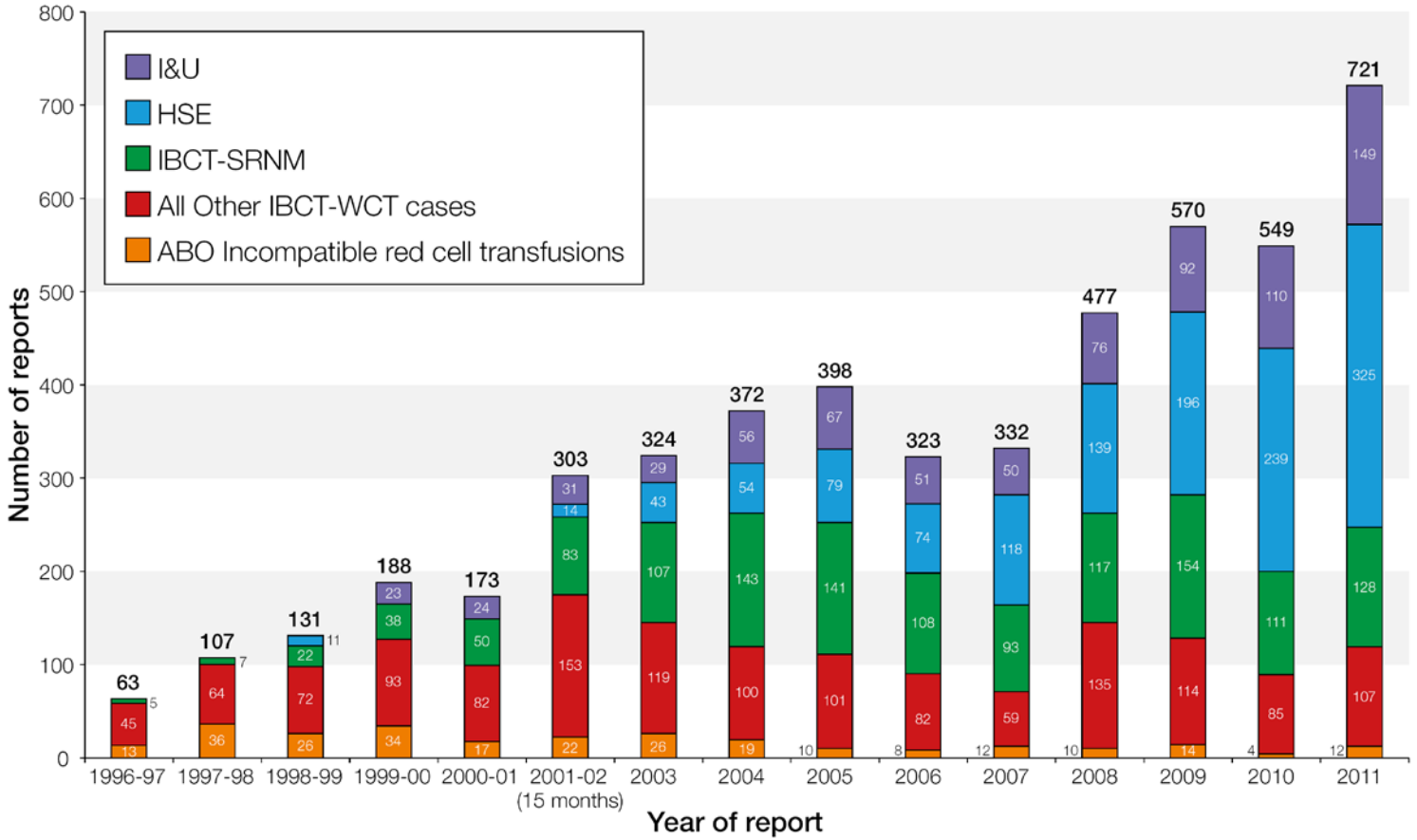
BBT promote active participation in the UK haemovigilance system

- 10% SHOT reports from NHSS
- Since 2001 the total number of SHOT reports has doubled
- ABO Incompatible transfusions have gone down from 7% to 2%
- A sign of an effective haemovigilance system

Safe

Haemovigilance

Figure 4.3 Incorrect blood components transfused (IBCT) either due to wrong component (WCT) or where special requirements were not met (SRNM), handling and storage errors (HSE), showing the number that resulted in ABO-incompatible transfusions



Annual SHOT Report 2011

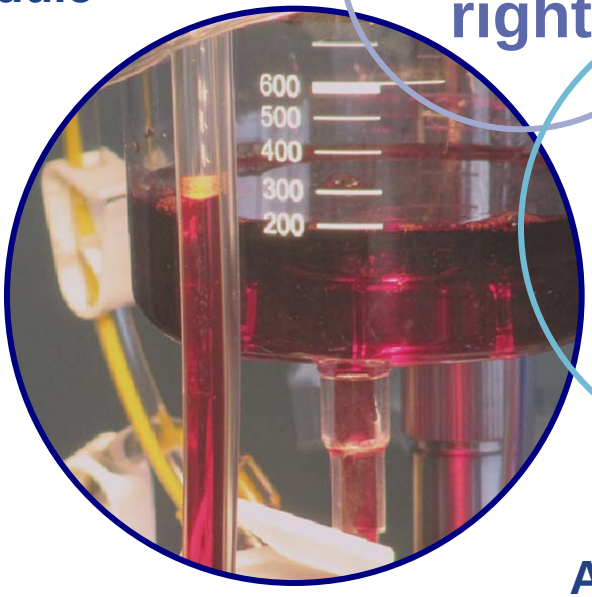
Effective


Audit
Quality Improvement
Clinical trials
BBT Clinical Effectiveness
Consent
National Comparative Audit
Engagement
Doing the right thing

Efficient

Maximum Surgical Blood Ordering Schedule - helping clinical teams to use blood appropriately

Blood Conservation Practitioner - dedicated to promoting alternatives to transfusion



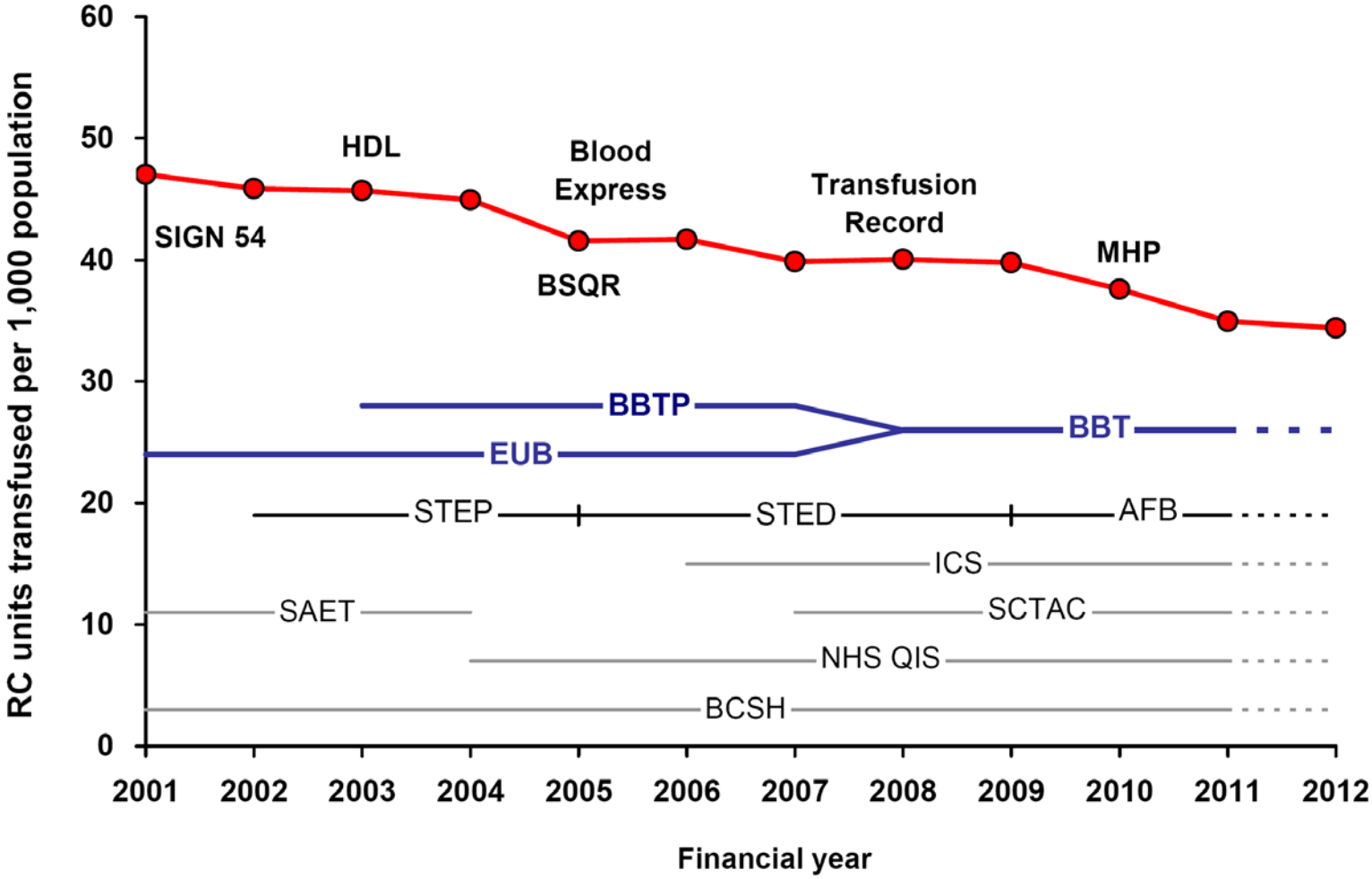
Doing things right

Supporting clinical and laboratory teams to make best use of the donor's gift

Account for Blood - providing national data to support clinical practice and stock management

Efficient

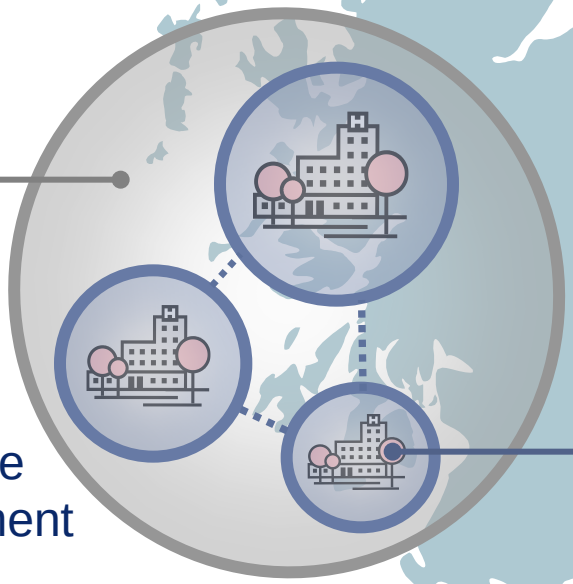
Reducing Blood Use



Did You Know?

- Since 2003 we have saved 105,000 litres of blood through reduced use
- Equivalent in volume to 4.2 million drams of whisky – one for every adult in Scotland!

Relationships – Local



HTC
Lead Clinician
Chief Executive
Nursing Directors
Medical Directors
Clinical Governance
Learning & Development

Universities
NHSScotland
Scottish Government HD
Healthcare Improvement Scotland

HTT
Education
Laboratories
Quality & Risk

Relationships – National

Relationships – International

Conference Presentations & Attendance

International Journal Publications

International Audits & Clinical Trials

EU Optimal Blood Use Project

Global reach of transfusion elearning

Reciprocal Visits & Networking

Better Blood Transfusion
The Future

Better Blood Transfusion
The Future

- Ensure that NHSScotland has enough blood to meet the transfusion needs of patients in Scotland by focusing on:
  - Gaining insight into the clinical context in which blood components are used
  - Optimising blood component stock management
  - Continuing to support safe, effective and appropriate transfusion