NHS
Blood and Transplant

NHSBT Key Performance Indicators

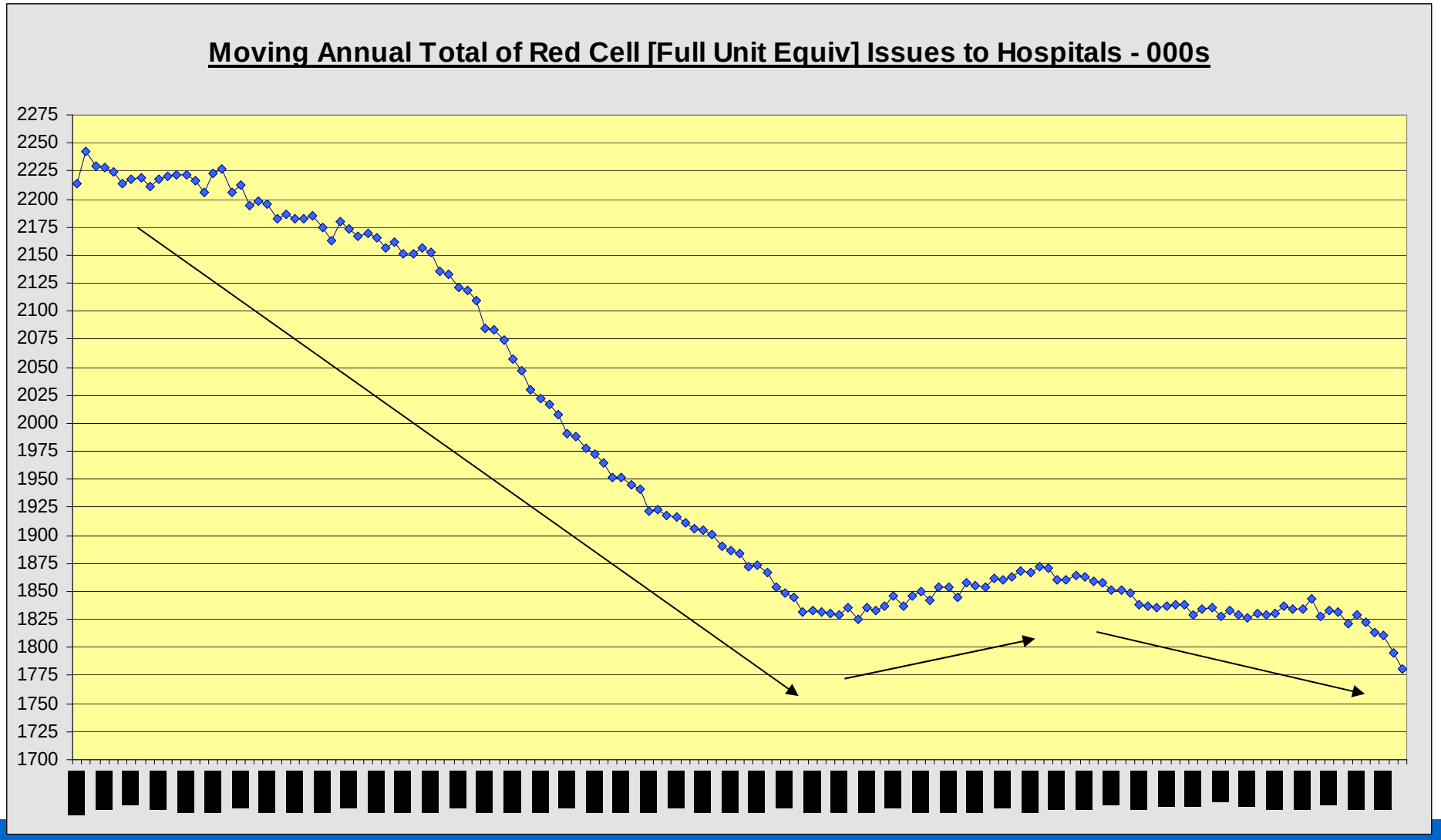
2012/13

Claire Chang

Key Performance Indicators

- Total red cells issued (since 1999)
  - Average age of red cells at dispatch
  - Number of red cells issued with <12d shelf life
  - Number of time-expired red cells (wastage)
  - % O RhD Negative red cells
- Total platelets issued (since 1999)
  - Number of time-expired platelets (wastage)
  - % Apheresis platelets issued
- Total frozen components issued (since 1999)

Moving Annual Total of Red Cell Issues to Hospitals



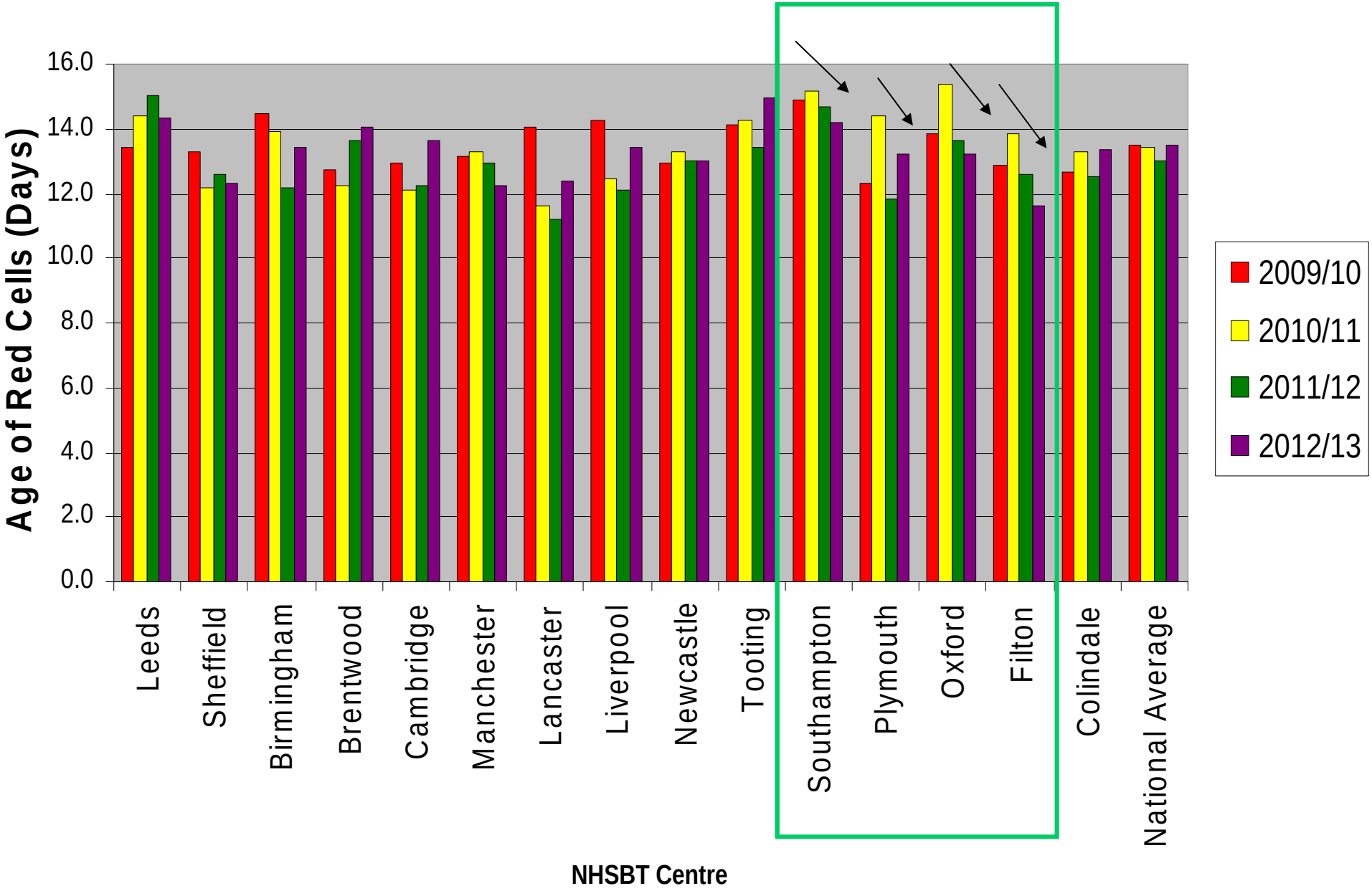
Average Age of Red Cells at Dispatch

- To maintain a balanced stock age profile across all sites
- Stock movement costs must be kept to a minimum

Age of Red Cells at Dispatch (Days)

NHSBT Centre	Quarter 1	Quarter 2	Quarter 3	Quarter 4	YTD
Leeds	12.4	15.2	15.5	14.3	14.3
Sheffield	10.7	13.1	13.4	12.4	12.3
Birmingham	12.2	13.9	14.2	13.4	13.4
Brentwood	13.1	15.0	14.2	14.1	14.1
Cambridge	11.0	14.4	15.6	13.6	13.6
Manchester	10.9	12.7	13.2	12.3	12.2
Lancaster	11.1	12.8	13.5	12.5	12.4
Liverpool	11.7	13.9	14.8	13.5	13.5
Newcastle	11.5	13.7	14.0	13.0	13.0
Tooting	15.1	15.7	14.2	15.0	15.0
Southampton	13.7	14.5	14.5	14.2	14.2
Plymouth	12.0	14.4	13.4	13.3	13.2
Oxford	12.4	13.9	13.3	13.2	13.2
Filton	10.7	12.3	12.1	11.7	11.6
Colindale	12.6	13.9	13.6	13.3	13.3
National Average	**12.4**	**14.1**	**14.0**	**13.5**	**13.5**

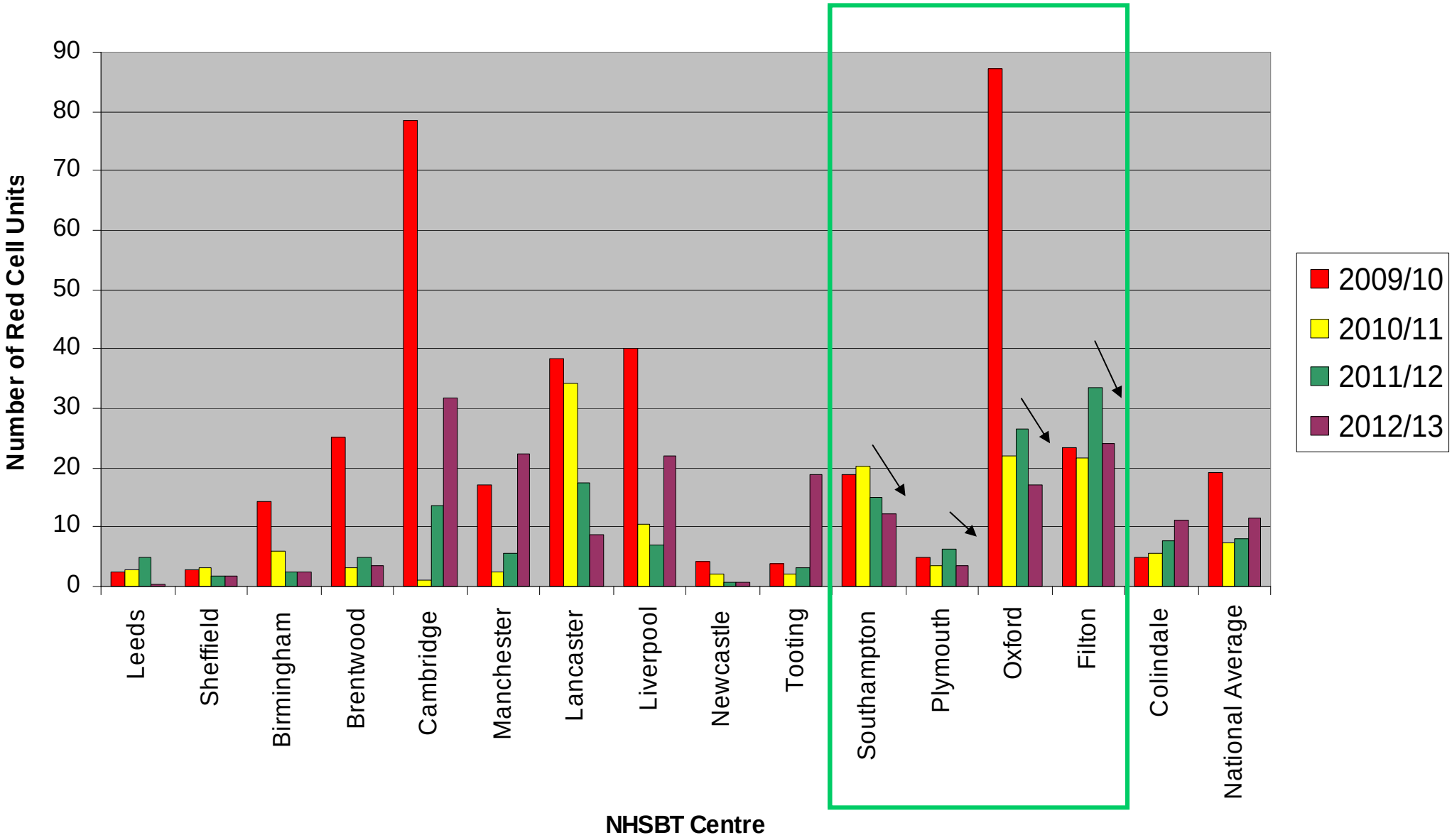
Average Age of Red Cells at Dispatch



Number of Red Cell Units Issued with <12 Days Shelf Life

- Related to stock age distribution, amount of stock held and the demand from hospitals

Number of Red Cells Issued with less than 12 days shelf life per 10,000 Issues



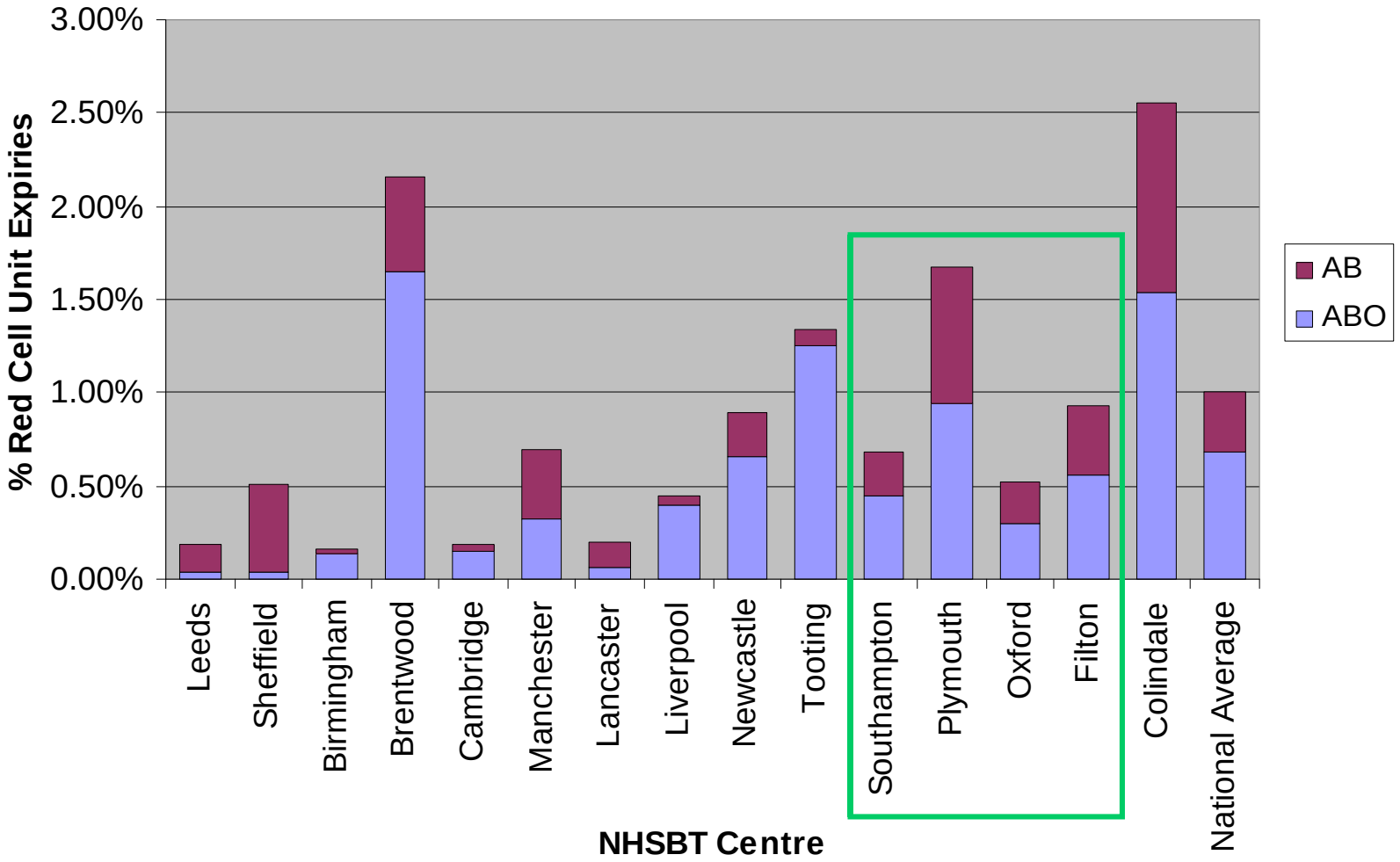
Number of Time Expired Red Cells per 10,000 Available for Issue

- Related to stock age distribution, amount of stock held and the demand from hospitals

Time Expired Red Cells per 10,000 Units

NHSBT Centre	Quarter 1	Quarter 2	Quarter 3	Quarter 4	YTD
Leeds	26	29	13	4	18
Sheffield	44	46	35	78	50
Birmingham	13	20	23	10	17
Brentwood	111	304	161	276	215
Cambridge	21	25	24	3	18
Manchester	46	80	67	89	70
Lancaster	5	16	16	43	19
Liverpool	23	33	42	86	45
Newcastle	28	40	98	201	90
Tooting	88	245	59	126	134
Southampton	50	29	144	40	68
Plymouth	113	118	184	266	167
Oxford	45	43	78	41	52
Filton	74	84	79	133	93
Colindale	198	281	262	271	255
National Average	**68**	**122**	**90**	**121**	**101**

Red Cell Expiries as % of Red Cell Issues – YTD Mar. 2013



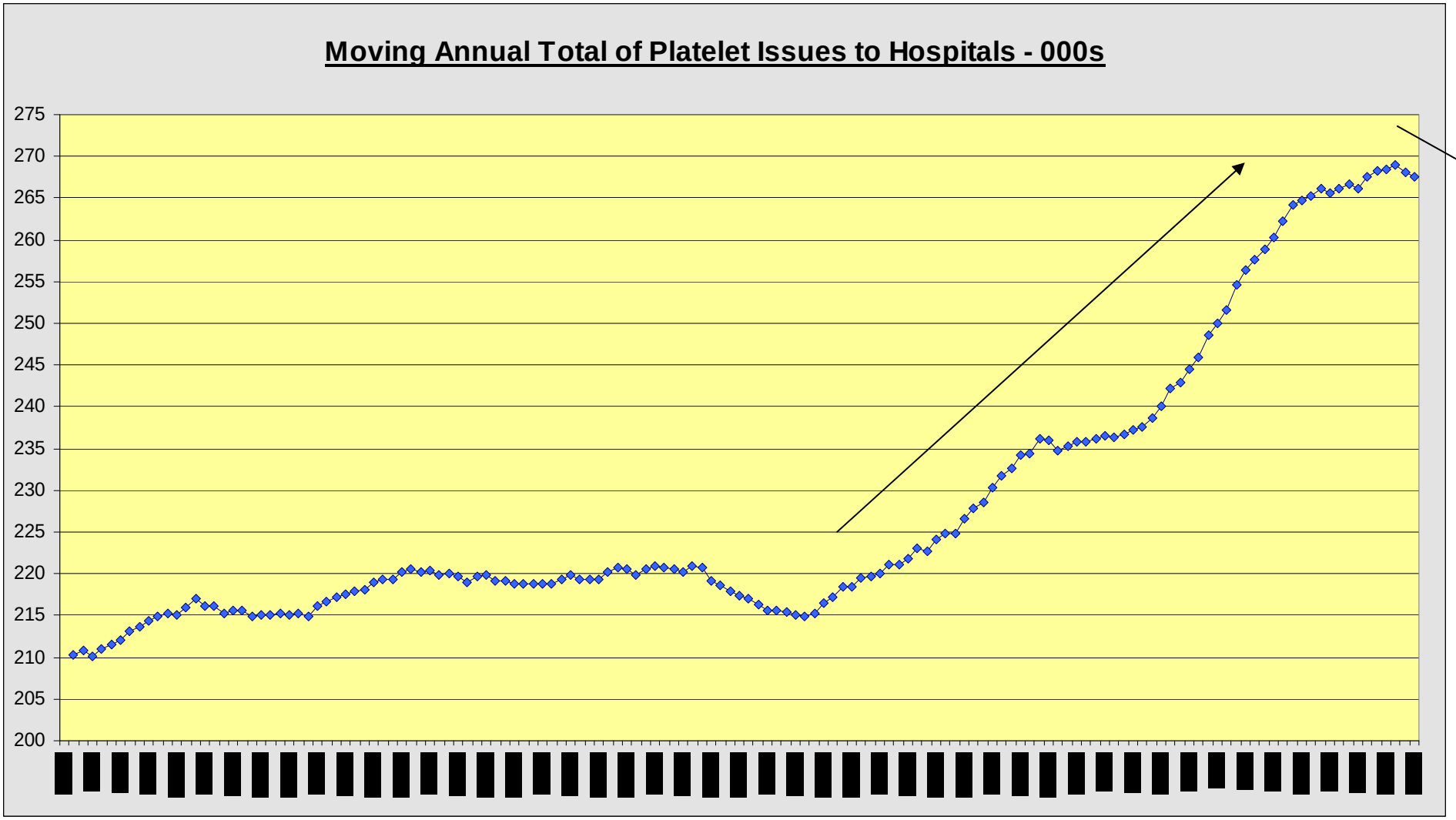
% O RhD Negative Red Cell Units Issued

- Directly related to hospital demand
- The maintenance of an adequate O RhD negative stock is an on-going challenge due to demand from hospitals *vs*. donor availability
  - Only 7% of UK population is O RhD Negative but hospitals used 11.5% last year

% O RhD Neg Red Cell Units Issued

NHSBT Centre	Quarter 1	Quarter 2	Quarter 3	Quarter 4	YTD
Leeds	10.2%	10.0%	11.1%	10.5%	10.5%
Sheffield	10.5%	10.7%	10.6%	10.4%	10.6%
Birmingham	13.5%	13.1%	12.8%	13.6%	13.3%
Brentwood	12.1%	11.6%	11.7%	12.6%	12.0%
Cambridge	9.2%	10.4%	9.1%	9.8%	9.6%
Manchester	10.4%	11.2%	10.6%	11.3%	10.9%
Lancaster	9.8%	11.5%	9.9%	10.5%	10.4%
Liverpool	11.1%	11.3%	11.7%	11.3%	11.3%
Newcastle	11.4%	12.0%	11.4%	11.2%	11.5%
Tooting	12.2%	12.8%	12.7%	12.9%	12.6%
Southampton	12.1%	12.3%	12.1%	12.3%	12.2%
Plymouth	12.7%	12.1%	12.9%	13.4%	12.7%
Oxford	11.1%	11.3%	11.5%	11.1%	11.2%
Filton	9.7%	10.7%	10.7%	10.2%	10.3%
Colindale	10.2%	10.4%	10.3%	10.7%	10.4%
National Average	**11.3%**	**11.6%**	**11.4%**	**11.6%**	**11.5%**

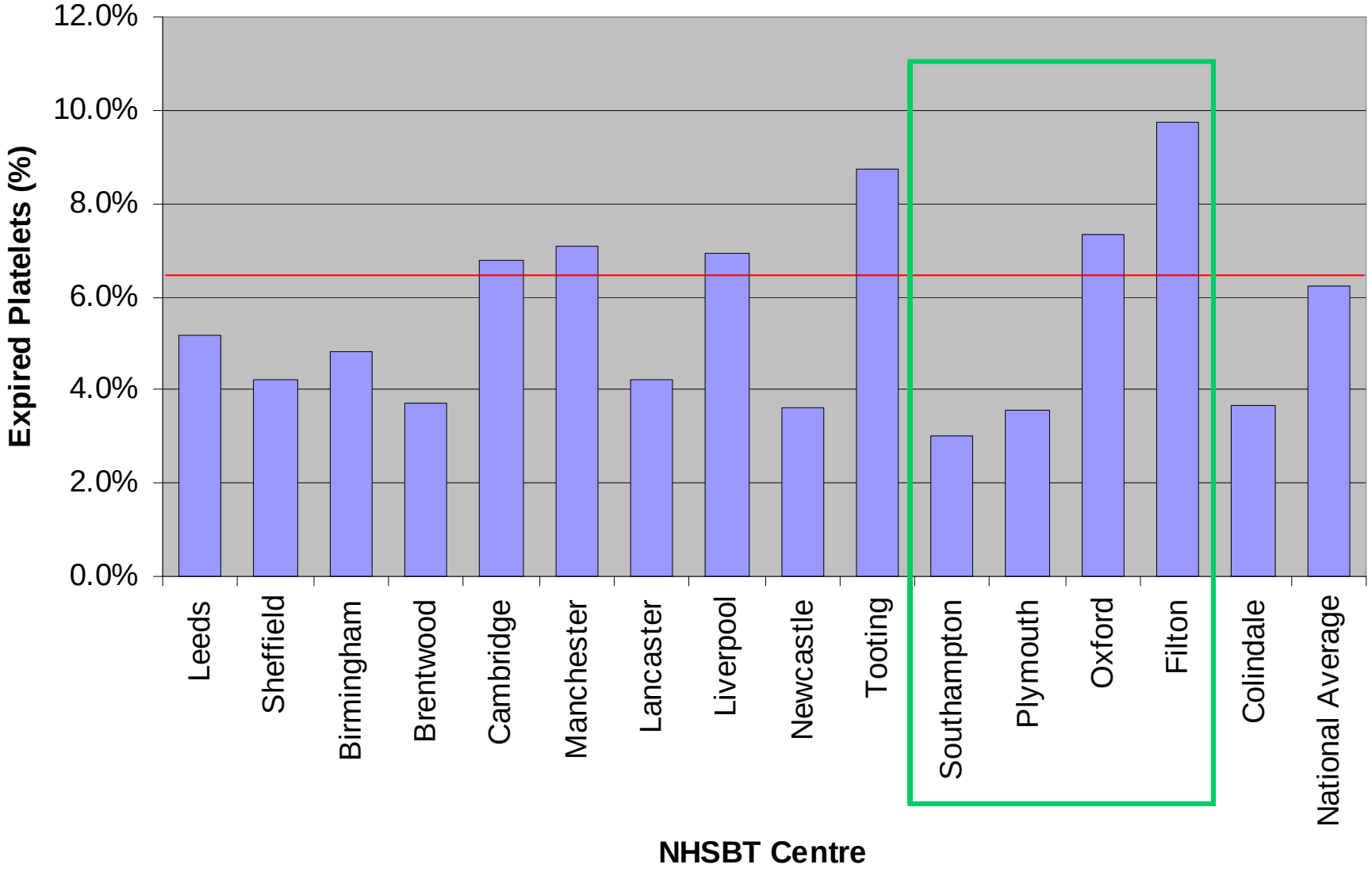
Moving Annual Total of Platelet Issues to Hospitals



Expired Platelet Units as a % of Issuable Stock (Excluding B/H)

- Platelet stock is actively managed
- Group specific donation targets to reduce wastage
- The target is 6.5% or less

Platelet Expiries as a % of Platelet Issues – YTD Mar. 2013



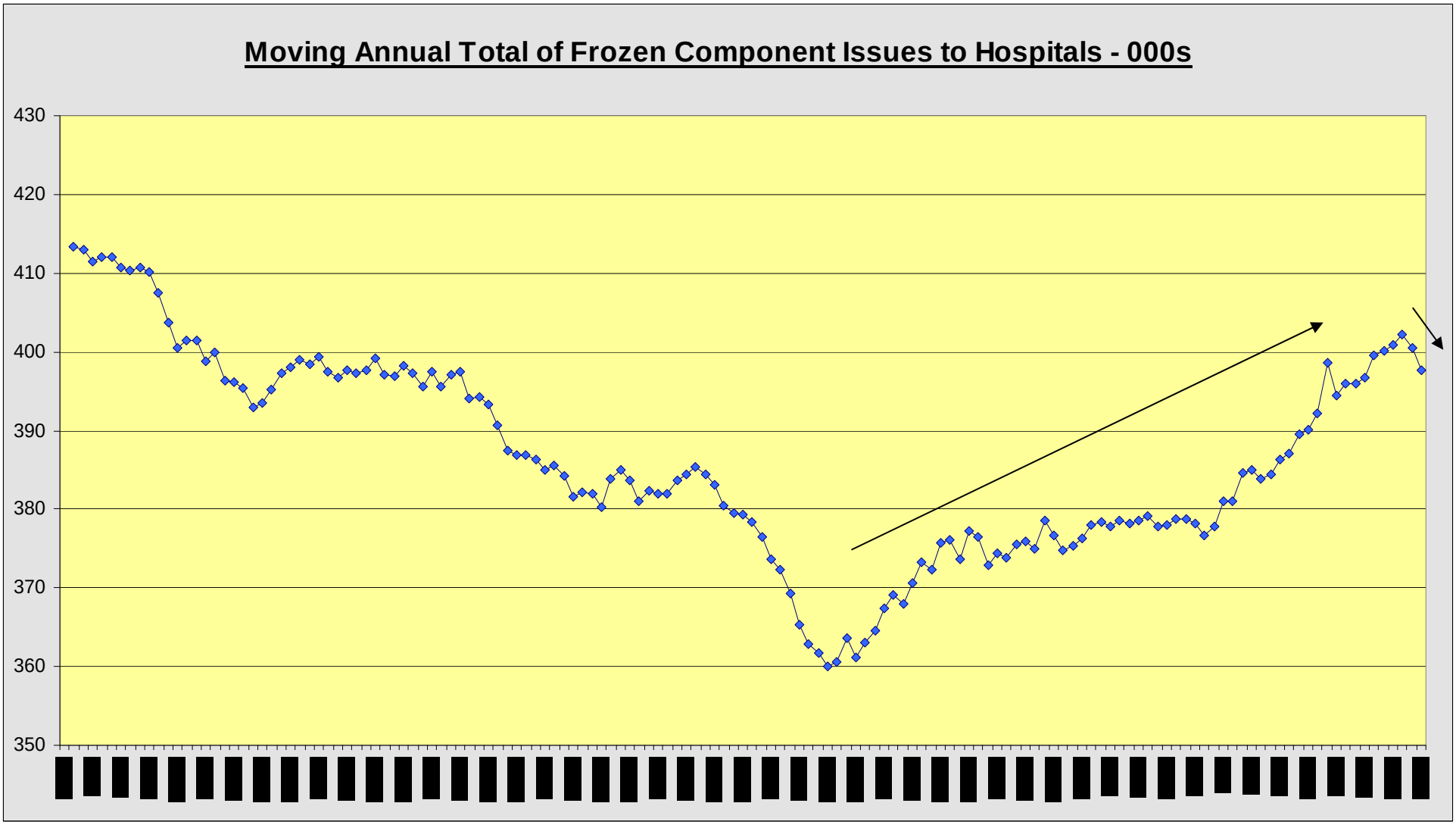
% Apheresis Platelet Units Issued

- Directly related to the availability of component donation (CD) platelets
- The aim is to increase CD collections in order to reduce donor exposure to recipients
- CD protocols have contributed to an increase in single donor platelet stock and the number of issues nationally is above the target of 80%

% Single Donor Platelets Issued

NHSBT Centre	2009/10	2010/11	2011/12	2012/13
Leeds	96.0%	82.4%	78.6%	85.8%
Sheffield	80.4%	80.1%	85.9%	93.3%
Birmingham	85.7%	77.3%	83.0%	85.1%
Brentwood	76.1%	77.8%	85.9%	90.4%
Cambridge	78.9%	77.7%	85.2%	89.5%
Manchester	78.9%	78.5%	81.6%	86.2%
Lancaster	76.5%	77.0%	82.5%	84.5%
Liverpool	80.1%	78.0%	82.3%	84.3%
Newcastle	83.9%	96.5%	96.2%	95.5%
Tooting	53.4%	82.1%	82.3%	81.6%
Southampton	83.5%	77.0%	76.8%	80.0%
Plymouth	95.7%	95.1%	92.9%	93.5%
Oxford	84.5%	76.4%	77.8%	78.8%
Filton	91.6%	86.1%	84.6%	91.6%
Colindale	57.5%	69.1%	80.8%	87.2%
National Average	**75.6%**	**79.4%**	**83.2%**	**86.6%**

Moving Annual Total of Frozen Component Issues to Hospitals



Thank You