

# BLOOD STOCKS MANAGEMENT SCHEME

## NEWSWIRE No. 10 December 2003

### In this issue:

- ◆ Inventory Practice Survey 2003 - Mismatching
  - ◆ BSMS Open Meeting 2004, Wednesday 19 May
    - ◆ “VANESA for Dummies” Training Workshops in Oxford and Birmingham
    - ◆ Miscellaneous – Data collection, BSMS Spotlight, Activity monitoring

### Inventory Practice Survey 2003 - Mismatching

#### Background

BCSH guidelines state that “red cell components of the same ABO and D group as the patient must be selected whenever possible”. A recent inventory practice survey of 99 hospitals showed that 5% of issues during the survey period were mismatched. The full report is available on [www.bloodstocks.co.uk](http://www.bloodstocks.co.uk)

#### Key Findings

- 61,524 red cell units were issued to 99 hospitals during the survey period 17 February – 14 March 2003
- 3105 (5% of issues during the survey period) were reported as mismatched to 1028 patients.
- 2164/3105 (69%) mismatched red cell units were transfused to 954 patients
- The two most common reasons for mismatching were “insufficient stock available” (57%) and “unit time expiring” (26%).
- 992/3105 (31%) of mismatched red cell units were O Neg.
- 652/3105 (21%) of mismatched red cell units were for AB patients

**Fig 1** Mismatched red cell units by patient blood group against donor blood group. The highest number of mismatched red cell units are highlighted in red. Incompatible blood groups are shaded in grey.

		Patient Group								Totals
		O Pos	O Neg	A Pos	A Neg	B Pos	B Neg	AB Pos	AB Neg	
Donor Group	O Pos		167	113	6	310	0	2	0	598
	O Neg	549		111	97	44	184	5	2	992
	A Pos				42			300	1	343
	A Neg			459				5	131	595
	B Pos						19	60	0	79
	B Neg					320		19	4	343
	AB Pos								0	0
	AB Neg							155		155
	Totals	549	167	683	145	674	203	546	138	3105

**Use of O Neg** The survey identified extensive use of O Neg mismatching. The use of O Neg mismatched units in emergency situations is understandable, however only 138/992 units were mismatched as flying squad units. More than one in three O Neg units were mismatched to ensure that they did not time expire.

**Recommendation:** O Neg inventory levels should be reviewed and where possible the number of O Neg units held should be reduced

**Group AB Patients** 69% of AB Pos patients receiving mismatched red cell units were because insufficient stock was available. AB units are available from the NBS on a sale or return basis. Any unused AB red cells will be credited for; there is no need to return the units to the NBS.

**Recommendation:** AB inventory levels should be reviewed and hospitals that do not already stock AB should consider doing so. Where AB units are held hospitals should consider increasing their inventory.

## BSMS Open Meeting 2004 - Wednesday 19 May Hilton Hotel, Sheffield

Book the date in your diary - the programme and application forms will be distributed in January



## “VANESA for Dummies” – Additional dates: Oxford and Birmingham

*A “hands on” training workshop on using VANESA facilitated by the BSMS team*

VANESA for Dummies has proved to be extremely popular and over 70 participants have benefited from the training. We have organised additional dates and have included a data extraction session for those of you who are familiar with data entry but wish to get more from the data.

### Data entry and extraction

Thursday 26 February at NBS, Birmingham New Street  
Monday 15 March at NBS Oxford Science Park

### Data extraction only

Monday 19 January at NBS, Birmingham New Street

**Application Forms are enclosed - *the workshop is free of charge***

## DATA COLLECTION REMINDERS

### Stock Movement

A stock movement can be set up between any hospitals. Stock movements should be recorded when you move blood that you know will not be sent back to you, or if you send blood to another hospital with a patient and you know you will not get it back. Contact [bsms@nbs.nhs.uk](mailto:bsms@nbs.nhs.uk) to register a hospital for stock movement

### Transfused units

Since April 2003 the scheme has been collecting data on transfused units. These can be entered on a monthly basis; just choose the last day of the month for which you are entering data.

**A reminder** You should have a secure and auditable system in place for moving blood between hospitals. An SOP and appropriate paperwork for blood movements may be available through your local blood transfusion laboratory managers group.

## BSMS SPOTLIGHT



**BSMS Spotlight** is a new publication from the BSMS team. It will be available to all participants with Newswire and also on [www.bloodstocks.co.uk](http://www.bloodstocks.co.uk). It will focus on a particular topic that has relevance to inventory management and will include data not previously published. BSMS Spotlight 1 is on Electronic Issue. Future BSMS Spotlights will feature specialist practitioners of transfusion and satellite blood fridges.

## ACTIVITY MONITORING

Whilst 256 hospitals are registered with the scheme, a number have not entered any data and others are not entering data on a regular basis. The Operations group has discussed the extent of non-activity, or irregular activity and how we can encourage what is a minority of hospitals to enter data on a more regular basis. The result is that the BSMS team is working on an activity-monitoring programme, which will be implemented early in 2004. Any hospital that is not regularly entering data will receive reminders. We will initially send out a friendly reminder letter but if activity does not increase we will send a red letter. Hopefully this will galvanise people into action and we will begin to see an increase in activity.

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Merry Christmas