ISBT Working Party for Rare Donors :

24 years of International Collaboration

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Working Party on Rare Donors

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Working Party Terms of Reference

- Develop guidelines for standardization of listing, labeling, shipping, testing and reimbursement for rare donor blood
- Provide a centralized international web resource for providing ongoing information on matters related to rare donors.
- Develop and extend the liaison with the International Blood Group Reference Laboratory (IBGRL in Bristol, UK) and thus assist blood service internationally to support and contribute to the WHO International Rare Donor Panel.

Develop guidelines for standardization of listing, labeling, shipping, testing and reimbursement for rare donor blood

White Paper: An Updated Report from the Working Party on the Use of Rare Blood for non-members and physicians who rarely request blood

Graeme Woodfield NEW ZEALAND Ziyan Zhu

On ISBT website under Working Parties, 2004

Policies for importing Rare Blood

internationally

2004 Working Party Report

Flowchart on process for requesting Rare Blood

On ISBT Website under Working party and published in Transfusion Today, June 2007. In Science Series of Vox Sang Nov 2007

The Problem Statement:



Patients need transfusion with rare blood products that are not available locally

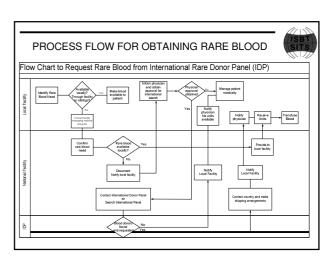
The Solution

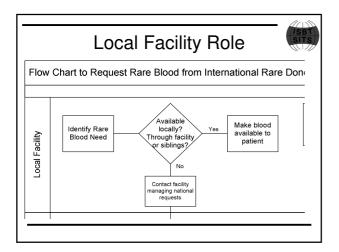


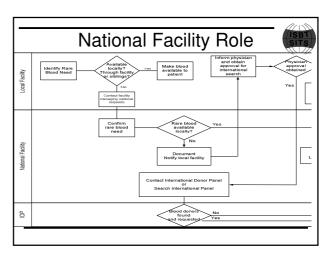
CHINA

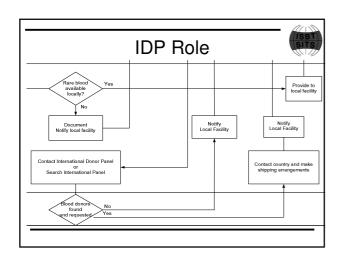
International collaboration to supply rare products

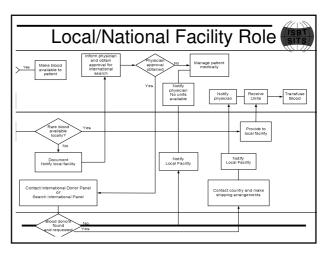




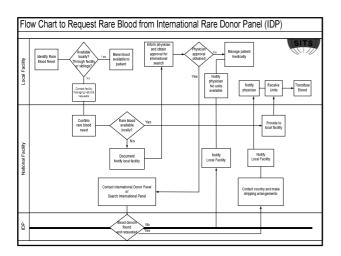








S Nance 16 Sept 2008 Düsseldorf



Summary Points on Process Flow



- Multiple contact points for Local Facility with National Facility
- Information critical regarding treatment in the absence of blood product availability
- · Immediate shipment critical
- Patient/Physician understanding of untested nature of the blood critical

Provide a centralized international web resource for providing ongoing information on matters related to rare donors

Working Party posts all relevant materials on the Working Party section of the ISBT website 2004 White Paper 2007 Flowchart

2007 Shipping Outcome Form 2007 Working Party picture from formal meeting of the Working Party in South Africa at the ISBT Congress

2007 *Transfusion Today* article on the Working Party and its purpose

Provide a centralized international web resource for providing ongoing information on matters related to rare donors

Publications/Postings

<u>An Updated Report of the ISBT Working Party on Rare Blood</u>
<u>Donors.</u> December 2004 (PDF, 109 Kb)

Transfusion Today #71, June 2007 (1,5 Mb)

 $\underline{\textbf{Utilisation of Rare Blood}}. \ \mathsf{Vox} \ \mathsf{Sang} \ \mathsf{Science} \ \mathsf{Series}. \ \mathsf{November} \ \mathsf{2007}$

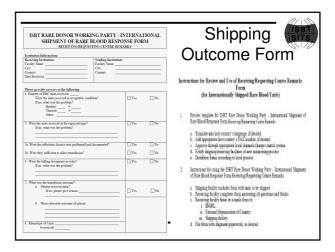
Transfusion Today #75, June 2008 (1,23Mb)

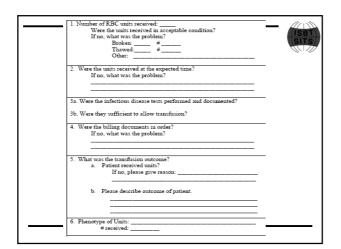
Shipping Outcome Form

International Shipment of Rare Blood Response Form

The ISBT Rare Donor Working Party is concerned about the effectiveness of the transport and use of rare blood products shipped internationally. The committee has developed a form which relates the critical information about the shipment. This form is to be packed by the shipper when rare blood is shipped and completed by the receiving facility. This form will then be sent by FAX or email to International Blood Group Reference Laboratory (IBGRL) for monitoring purposes. The country of origin can also monitor the forms if desired. The form is a template that can be translated into the host county language if used only within the country. When used internationally, the language should be English.

Rare blood shipment form (PDF, 29 Kb)





Develop and extend the liaison with the International Blood Group Reference Laboratory (IBGRL) in Bristol



Working Party numbers 19 members from 14 countries

1984-2008

Working Party surveyed and established that 118 centers have rare donor capacity. Contacts were determined for each facility

Requests via IBGRL August 2004 to August 2006



Request Group Supplied Switzerland UK Yt(a-) Israel Sweden Thailand Jk(a-b-) Netherlands USA At(a-) Wr(b-) Not available Spain Austria Jk(a-b-) Thailand pp rr Gy(a-) USA Not available India Oh Israel USA G-U-?UK

Requests via IBGRL August 2004 to August 2006



Request	Group	Supplied
Germany	C-E-Fy(a-b-)Jk(b-)M-Le-	?
USA	Sc:-1,-2,-3	Not available
Brazil	D/D	?Japan
Israel	R2R2 Jk(a-)Fy(a-)	UK
USA	C-E-K-S-Fy(a-) hrB-	S Africa
Czech Rep	D/D	USA
Brazil	Rh _{null}	?
Germany	U-	?
Australia	C-Fy(a-b-)Jk(b-)Do(a-)	?
USA	hr ^B -	S Africa
USA	Vel-	USA
China	C-Fy(a-)	Japan

Kell Requests via IBGRL August 2004 to August 2006



Request	Group	Supplied
USA	McLeod	UK frozen
USA	Ko E-S-Fy(a-)Jk(a-) ?
Spain	Js(b-)	?
Netherlands	KK Fy(a-) Jk(a-)	?UK
Germany	Ko	?
Brazil	McLeod	UK frozen
S Ireland	KK	USA
Germany	Ko	not needed
Thailand	Ko	Japan
Israel	KK R1R1 Jk(b-)	UK

IBGRL Requests August 2004 to August 2006 Internet access



Vox Sanguinis International Forum July 2008



Question 1. What is your definition of a rare donor?

Question 2. Do you, in your country, have a national panel of rare donors and/or a national bank of frozen red cell units from such donors? If so what percentage of cases do you find compatible red cells for the above patients? Which of the relevant phenotypes are lacking in your panel/bank?

Question 3. If no compatible donors/ units are available from your national panel/bank, or if no such panel/bank exists, do you appeal to the WHO IDP and or the European Bank of Frozen Red Cell or national panels in other countries. If you do, could you indicate how many times you have appealed to those institutions in the past 5 years and what % of cases were compatible donors obtained. Donors of which phenotype were most difficult to find?

Vox Sang 2008;94:1-16

Vox Sanguinis International Forum July 2008



Question 4. Were there any problems encountered in finding compatible units for your patients?

Question 5. Are there restrictions in your country for the use of units that were frozen at a time that not all tests required at present were performed and when no blood sample is available to do those tests?

Vox Sang 2008;94:1-16

Vox Sanguinis International Forum July 2008

Responses from 16 countries

Rare donor definition -

Vast majority of countries those donors with red cells lacking antigens of high-prevalence are considered rare varies from 1:1000 to 4:1000 (France) to 1:100 –

1:1000 (Japan)
Second category- negative for combination of common antigens, varies from 1:200 to 1:1000

National panel of donors -

Nearly all respondents have national center Some have several panels

One country has panel of patients requiring rare types (France)

Vox Sang 2008;94:1-16

Vox Sanguinis International Forum (July 2008



Percentage of cases that compatible red cells can be provided is as high as 100%

Difficult types to find are:

 $\rm K_{o},\,McLeod,\,U-,\,Vel-,\,Lan-,\,O^{h},\,p$

No compatible products:

WHO International Panel of Rare Donors in Bristol, UK Sanguin Bank of Frozen Blood in Amsterdam (previously the Bank of Frozen Red Cells

Vox Sang 2008;94:1-16

Vox Sanguinis International Forum July 2008

Problems encountered:

- Logistics transit time longer than cells remain frozen
 Different freezing methods may necessitate that the
 blood is thawed in country of origin
- · Very rare types are difficult to find
- · Eligibility criteria reduces numbers of donors eligible
- Differences in testing between countries makes importing a medical challenge

Vox Sang 2008;94:1-16

Case Study



- This case report shows the value of international collaboration
- It is all about lifesaving transfusions for patients with rare blood needs
- We are stewards of this rare resource
- Continued efforts are needed globally to identify and collect rare donors for transfusion to any patient in need.