

BLOODNET



Streamline your blood orders
with Australia's first national
online blood ordering system





WITH **BLOODNET** YOU CAN:

- » Easily place orders for blood and blood products 24 hours a day, 7 days a week
- » Get instant confirmation that the Blood Service has received your order
- » Give immediate feedback on items, such as “damaged”, “close to expiry”, “not ordered” or “not received”
- » Cancel an order before it is issued by the Blood Service
- » Record the fate of blood and blood products that are discarded or transferred to other hospitals
- » Access data showing a hospital’s history of orders, use and trends over time
- » Receive regular information showing your inventory and ordering patterns.

WHAT CAN IT DO?



BloodNet allows staff in hospital pathology laboratories **to order blood and blood products in a standardised way**, quickly, easily and securely from the Australian Red Cross Blood Service.

BloodNet is fast becoming the tool of choice for pathology laboratories to tackle their inventory management challenges.

Not only does it enable them to seamlessly place orders and receipt units, they can also record transfers and discards. The data from this is readily accessible and lab staff can produce standard reports that identify their inventory holdings, issues from the Blood Service and their transfer and discard rates in one easy to read format.

The National Blood Authority's intention is to expand the coverage of BloodNet such that by 2014, approved users in hospitals will be able to place orders for all blood and blood products supplied under the National Blood Arrangements from all suppliers through BloodNet.

WHO USES BLOODNET?

BloodNet now operates in some capacity in all states and territories of Australia. It has been adopted by all hospitals in Queensland, South Australia, Tasmania, the Northern Territory and the Australian Capital Territory. In addition, BloodNet is used by most private facilities in Western Australia and plans are well advanced to roll it out to the WA public sector. A number of public and private pathology laboratories in New South Wales and Victoria are now using BloodNet, with plans to expand its use across both states.

‘BloodNet is reliable as we have no downtime apart from upgrades. It makes tracking orders easy – we can see what is being delivered. It has improved accuracy of orders as phone orders were sometimes inaccurate. Very easy to use – with little or no training – quite intuitive.’

GINA AITKEN, SENIOR SCIENTIST, TRANSFUSION MEDICINE, ROYAL HOBART HOSPITAL

WHO RUNS IT?



BloodNet is run by the National Blood Authority, **an independent Australian Government statutory agency** that acts on behalf of the Australian and all state and territory governments.

Its aim is saving and improving Australian lives through a world-class blood supply.

WHAT ARE THE BENEFITS?

Trials of BloodNet show that all participants (100%) were happy with it and would not go back to their previous system of ordering blood.*

Some of the benefits reported by users include:

- » BloodNet is simple to use, compared with systems that rely on faxed or emailed orders for blood.

- » It is quicker than previous manual methods, taking only minutes to submit a daily hospital order for blood.
- » It automatically keeps a log of orders, so that hospitals can easily produce weekly, monthly, or yearly reports on their blood use.
- » It can easily identify supply chain problems in order to improve inventory management.
- » It improves financial accountability and transparency by tracking hospitals' use of blood and blood products.

*These are the findings from a trial of BloodNet carried out at 79 hospital-based blood banks in Queensland, Tasmania, South Australia and Victoria in 2010.

‘The BloodNet system is easy to use and requires little training. It has streamlined ordering from the Blood Service. Staff find there are fewer problems with the orders.’

**SUE WILLIAMS, SENIOR SCIENTIST,
TRANSFUSION, QUEENSLAND HEALTH**

HOW DOES IT WORK?

The system is set up and ready to be used
24 hours a day, seven days a week.

PLACING ORDERS

To order blood, you simply open a webpage that contains a template customised to your hospital that will have been established by the NBA for you. It prompts you to select the items required and the quantities (units) needed. The order is then sent directly to the Blood Service by clicking a "submit" button. An electronic record of your order is kept, but you can also choose to print a copy of the order form at any time.

BloodNet also allows you to track the progress of orders and their subsequent fulfilment by the Blood Service, giving you advance notice of the shipment and the exact details of each item prior to the delivery arriving at your hospital. This is particularly useful for remote users who are a long way from their Blood Service Delivery Site.

You can order both routine stock and patient-specific orders for all blood and blood products supplied by the Blood Service.

National Blood Authority Australia **BLOODNET** Logged in as: ntrhdadmin at Royal Darwin Hospital Using timezone (GMT+09:30) Darwin

Home Ordering Receiving Fate Administration Information Help Logout

Page will refresh in: 01:45
[Turn OFF Page Auto-Refresh](#)

Unsent Orders - (0) **Sent Orders - (1)** Dispatched Orders - (1) Cancelled Orders - (1) Finalised Orders - (19)

Order Number	Order Date	Total Price	Sent To Site	
119275	13-Sep-2011 7:37 AM	\$1,050.48	Blood Service - Perth	Finalise Order Cancel Order

RECEIPTING ORDERS

Electronic copies of the Blood Service Issue Note for each delivery are sent to BloodNet at the same time the delivery is dispatched from the Blood Service Distribution Centre.

This Issue Note is then processed automatically by BloodNet to enable you to simply check off the delivery of blood and blood products using your existing bar code reader when the shipment arrives.

You can also use BloodNet to give any feedback about the order – such as "damaged product" or "close to expiry" – directly to the Blood Service for action by the Distribution Centre.

National Blood Authority Australia **BLOODNET** Logged in as: ntrhdadmin at Royal Darwin Hospital Using timezone (GMT+09:30) Darwin

Home Ordering Receiving Fate Administration Information Help Logout

Page will refresh in: 01:44
[Turn OFF Page Auto-Refresh](#)

Issue Notes - (1) Completed Issues Notes - (27)

Issue Number	Date Time	Issued Quantity	Total Issue Price	% Received	Comments	Assigned Orders
12762407	12-Sep-2011 10:53 PM	1	\$525.24	0%	STOCK	119275 Receipt

Donation No: [Find Issue Note](#)

RECORDING DISCARDS AND TRANSFERS



Whenever you transfer an item to another hospital or discard the item, **simply scan the Donation/Lot number bar code, record the action you are undertaking** (such as discard) and the reason why (such as a faulty fridge) and the system is then updated.

FATE

These features are part of the recently launched fate module, which is a huge leap forward for BloodNet users, and in fact, the blood sector. For the first time in Australia, it will allow the collection of data on product, orders, issues and discards in one system that will enable an accurate picture of the use of blood and blood products across the country.

This data will empower laboratories, hospitals and Jurisdictions to make inventory management decisions that are evidence-based. This, in turn, will lead to more efficient use of blood and blood products – ensuring that the right product is available at the right place and at the right time without unnecessary discards.

The screenshot shows the BloodNet web application interface. At the top, there is a navigation bar with the National Blood Authority Australia logo and the BLOODNET name. The user is logged in as 'nbrodhamin' at Royal Darwin Hospital. The main content area displays a 'BloodNet Discard Episode' form with the following details:

- BloodNet Discard Episode Number: 0
- Episode Created Date: 30/09/2011 2:01:35 PM
- Discarded Date: 30/09/2011
- Facility Name: Royal Darwin Hospital
- Location where item(s) discarded: Pathology
- Discard Reason: Transport – Temperature failure from supplier

Below the form is a table titled 'Discard Components' with the following data:

#	Donation No	Component Code	Component Name	Group	Expiry Date	Price	Comments
Remove	3453730	04390	Red Cells in SAG M LD (04390)	O -	4/07/2011	\$355.88	
Remove	3452685	04390	Red Cells in SAG M LD (04390)	O +	1/07/2011	\$355.88	
Remove	3433053	04390	Red Cells in SAG M LD (04390)	A +	5/07/2011	\$355.88	

At the bottom of the table, there is a button labeled 'Add New Component to Discard Episode'.

REPORTING



You will receive reports from BloodNet that combine data on your inventory levels, ordering practices and discard/transfer rates in simple, easy-to-read formats. If you have been using ERIC to record discards previously, you can import your discard history into BloodNet so that you don't lose any of your data.

REPORTING

BloodNet produces a number of reports that are simple to read and easy to use to track performance and decisions taken in your laboratory. Hospital transfusion committees will also find the reports useful as they will:

- › Provide real time inventory in the event of a crisis requiring blood
- › Provide comparative data on ordering practices from other facilities
- › Assist in aligning ordering practices to specific clinical needs

IS IT SECURE?

Yes. BloodNet is more secure than the manual methods of order transmission still used by some hospitals. All data processed through BloodNet is encrypted from the moment it is entered into the system in your hospital. Data is stored in an encrypted form using military-grade encryption tools on the BloodNet servers and is then transmitted to the Blood Service as an encrypted email and it is only decrypted when it reaches their network.

Any patient-specific data is double encrypted to ensure that sensitive information is protected using some of the most sophisticated techniques available. Patient-specific data cannot be viewed by those outside the particular Blood Bank.

The BloodNet system administrators are employed by the National Blood Authority and all have been rigorously assessed by the Australian Government Security Vetting Agency and ASIO prior to gaining access to the system to undertake essential maintenance tasks.

BloodNet uses your standard internet browser (such as Internet Explorer) that connects to the central BloodNet servers, which are hosted in secure data centres located in Australia. It fully complies with all relevant web content accessibility guidelines and rigorous security arrangements that have been independently validated.

BLOODNET ORDERING AND RECEIPTING IN 7 EASY STEPS

1



ONE
An order for blood is lodged at a hospital laboratory.

TWO

The order is immediately received at the nearest Blood Service Distribution Centre.

2

Request for Blood Component and Product

Haematology, Flinders Medical Centre Code: 51AFMC Date: 25-May-2011 2:02
 Time Required: Order #: 99515 Ordered by: IN CHAR SCIENTIST
 Delivery Details: Room 3D-111, Level 3 Flinders Drive, Bedford Park, 5042 Taken by:

Routine Components	O Pos	O Neg	A Pos	A Neg	B Pos	B Neg	AB Pos	AB Neg
Max Stock	115	43	115	24	20	18	8	4
On Hand	110	42	110	20	18	12	6	1
Required	5	1	5	4	2	4	2	3
Issued								
Max Stock	5	5	5					
On Hand	4	4	4					
Required	1	1	1					
Issued								
Max Stock	2	2						
On Hand	1	1						
Required	1	1						
Issued								
Max Stock	3		2					
On Hand	2		-					
Required	1		0					
Issued								

3



THREE
The ordered items are collected from the storage facilities at the Blood Service.



4

FOUR
The order is loaded into a courier van for despatch to the hospital laboratory.

FIVE
The ordered items arrive.



5

SIX
The order is receipted in BloodNet and in the hospital's LIS using the laboratory's existing scanners.

SEVEN
The items are stored at the laboratory ready for testing, collection and use.



6



7

WILL BLOODNET INTERFACE TO MY LABORATORY INFORMATION SYSTEM?



BloodNet is designed to **cope with multiple orders from around the country** at any one time. It already has a three-year track record in running smoothly.

WHY DOESN'T BLOODNET INTERFACE TO MY LABORATORY INFORMATION SYSTEM?

The National Blood Authority is currently undertaking a proof-of-concept trial to interface BloodNet into a range of different Laboratory Information Systems (LIS).

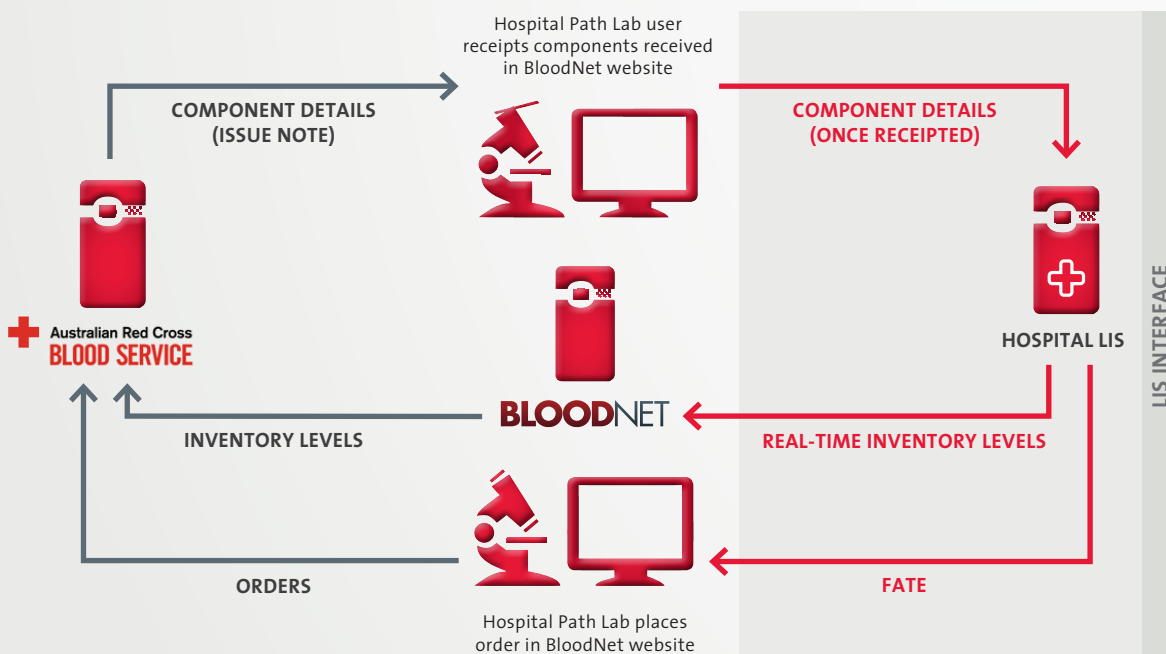
The interfaces will enable the seamless transmission between BloodNet and the LIS of the following data:

- » Hospital inventory levels
- » The fate of components (i.e. assumed transfused, transferred, discarded etc.)
- » Data on all components issued to the hospital by the Blood Service (in essence, the content of the Issue Note

from the Blood Service is passed through BloodNet to the LIS).

Such interfaces will remove much of the manual data entry currently undertaken in blood banks. Work to date has shown a reduction of over 80% for data entry time to receipt items into a LIS. This combined with other benefits, such as a real time view of national inventory and automated exchange of data on discards, will result in more accurate and meaningful data being available in a much more efficient manner.

The trial is in its early stages, but progress so far is promising. Further news on the trial is available at www.blood.gov.au.



WILL MY STAFF BE TRAINED IN USING BLOODNET?



National Blood Authority staff, or their local representatives, **will visit every hospital site to personally implement BloodNet and train staff in its use.** There are no charges levied against individual hospitals for this implementation.

DO I NEED TO BUY SPECIAL EQUIPMENT TO INSTALL BLOODNET?

No. Any organisation with a computer system that has a standard internet browser (such as Internet Explorer) and a reasonable connection to the internet can connect to the BloodNet system.

DO I HAVE TO BE A COMPUTER WHIZ TO USE IT?

No, anyone with basic computer skills can master BloodNet within minutes. It was designed to make the whole process quick and easy.

Users say it has significantly reduced their time spent on daily blood orders and enabled them to improve their inventory management of blood and blood products.

WILL I GET BACK-UP SUPPORT?

Yes. A helpdesk is operated by National Blood Authority staff 24 hours a day, seven days a week to deal with any problems users have in accessing or operating the system.

The National Blood Authority understands that blood and blood products are an essential part of quality patient care for Australian hospitals. Technical problems are, therefore, given top priority.

BLOODNET USER REFERENCE GROUP

To ensure users get the best support, a national BloodNet User Reference Group (BURG) meets regularly.

Members include hospital laboratory staff and suppliers from around Australia.

The group's recommendations and ideas are used to develop future enhancements of BloodNet as well as providing ways to improve its day-to-day operation.

It's just another way BloodNet is working to remain as useful as possible to all users.



National Blood Authority
Australia

Locked Bag 8430
Canberra ACT 2601

www.nba.gov.au

WANT TO KNOW MORE?

To find out more about BloodNet's suitability for your lab, or to discuss arrangements that exist for installation in your State – or to find out more about blood sector ICT systems:

- > Visit www.blood.gov.au or
- > Call us on **13 000 BLOOD** (13 000 25663).

To find out more about the National Blood Authority's role in the blood sector or to access information about blood sector guidelines and standards:

- > Visit nba.gov.au

