

HCLAB

Blood Bank



Ensuring speed and accuracy
where it counts

HCLAB Blood Bank

HCLAB Blood Bank (BB) is a dedicated module designed to meet the specific needs of the hospital blood banking environment and donor management programmes.

From donor and inventory management to blood transfusion requests and compatibility verification, HCLAB BB allows complete control of your blood bank workflow.

Key benefits:

- fast, accurate and intuitive - improving blood bank workflow and operational efficiency
- highly flexible - configurable to every blood bank facility's unique environment
- reliable, comprehensive donor and blood product management
- full traceability of blood transfusion requests enhancing patient safety
- total quality control and management reporting
- support for multilingual platform environment



Donor Management

Blood donor programmes are a vital part of the healthcare system, and screening the donors and the donated blood is an essential step to ensure safe, quality products for patients in need.

HCLAB streamlines all aspects of the blood donation and screening process including the ability to manage the donation process at the point of collection. HCLAB BB Mobile supports mobile blood donation programmes. Donors can be registered anywhere on location and donation information is synchronised with the HCLAB BB Database.

Key features of Donor Management in HCLAB BB include:

- comprehensive registration of donors and blood bags, including donor alerts, history and support for autologous donation
- display of existing donor blood group and cross-check results when entering blood group results
- approval of results for screening or immune tests for each bag or by list, including result alert displays
- ability to accept a donated blood pack into HCLAB BB Inventory with full details
- fully detailed management reports on donor listing

HCLABBB - [Donor Registration]

Home Lock Exit Save Clear Add Delete Reject Add Remove Barcode Print

Donor ID: XXXXX Alt Donor ID: _____
 Name: XXXXX XXXXX Blood Group: A + CcDEes
 Salutation: XXXXX Last Visit Date: 05-07-2019 0 Days
 Sex: XXXXX Donation Count: 2
 DOB: XX-XX-XXXX Age: XX Status: Active
 Comments: _____

Abnormal Screening Test

Bag ID	Date
<input checked="" type="checkbox"/> 19000001	05-07-2019 09:44:00
<input type="checkbox"/> 18000199	17-05-2018 10:26:00

Bag ID: 19000001 Unit Collect. By: NR NURSE Autologous/Direct:
 Donation Type: VOLUNTEER/WALK IN Spl. Collect. By: NR NURSE Patient ID: _____
 Donation Date: 05-07-2019 08:44 Blood Pressure: 120/80 Pulse: 70 Lab No: 19000001
 Bag Type: T TRIPLE BAG Weight: 80 Height: 185 Donation Count: 2
 Collection Place: DC Donation Campaign Body Temperature: 36.9
 Comment: _____

Code	Product Type	Qty	Screening Test	Result
FFP	Fresh Frozen Plasma	1	HLA Typing 1	NEG
PC	70% RCC Packed Cell with SAGEM	1	Antibody 1	NEG
PLTC	Platelet Concentrates	1	Antibody 2	NEG
			RBC Typing	+++
			Haemoglobin	12.0
			Platelet Count	300.0
			White Blood Cell	6.0
			HCT	4.0
			HBsAG	Non-Reactive
			Anti HCV Ivg	0.00
			Anti-HIV 1/2	0.0 Non-Reactive
			MALARIA	Non-Reactive
			SYPHILIS	Non-Reactive
			RPR(VDR)	Non-Reactive

DEMOLAB - [BBSA: BB SYSTEM ADMINISTRATOR] - [BBPROFILE] BB701 | 2.5

Inventory

Good management of blood product inventory is crucial to maintain maximal supply levels, while keeping time expiry losses at a minimum.

HCLAB BB Inventory is designed to support quality and timely management of blood product inventory received from donors (including autologous) and blood product suppliers such as the Red Cross.

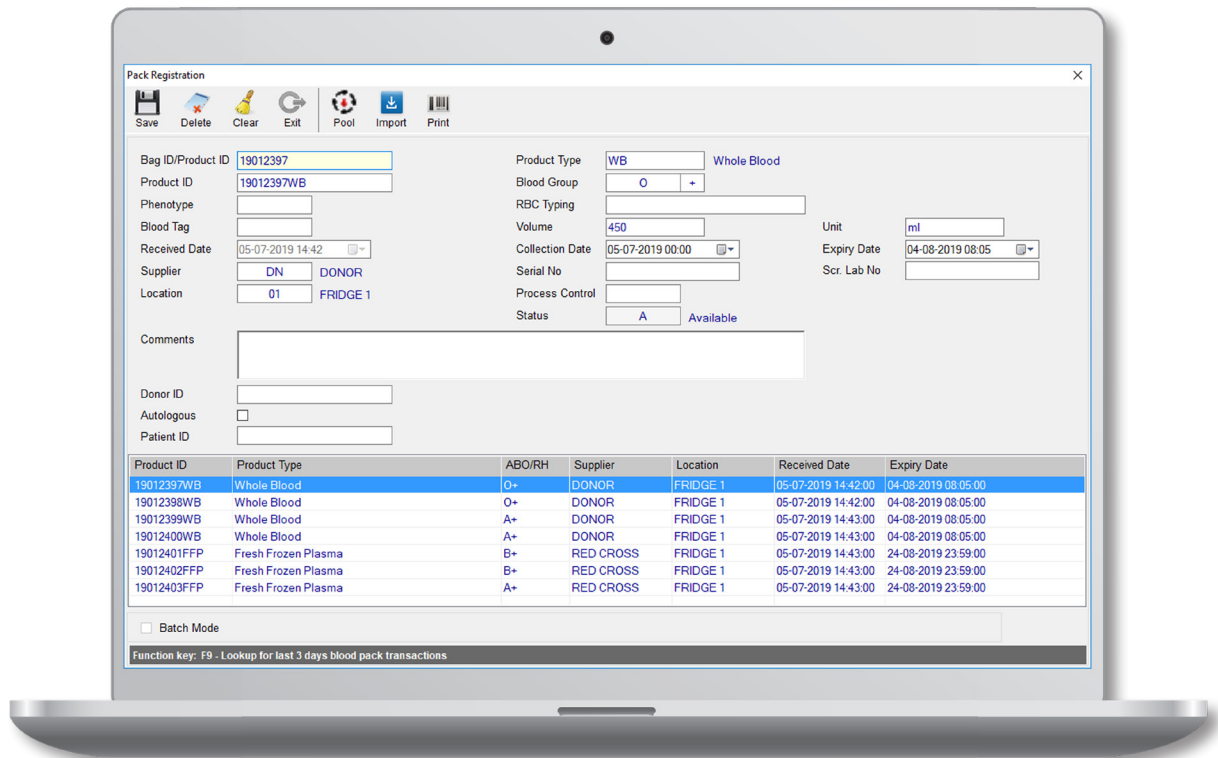
The application captures and records all necessary information about each blood product in the system including: ID, product type, blood group Phenotype, RBC typing, volume, dates received collected and expiry, availability status comments and donor ID.

HCLAB supports the ability to import blood product data from a file, saving time associated with manual data entry.

The Inventory module also records each of the following steps to create complete traceability of the status of a blood product:

- blood issued to patient and external locations
- returned / unused blood products
- movement of blood products within a location
- discarding of expired or damaged blood products
- conversion of a blood product to another type, including relabelling and expiry date update
- blood products returned to the supplier (e.g. Red Cross)
- returned from crossmatch

The HCLAB BB Inventory module features extensive enquiry and reporting. This is essential for the continual management of blood product stock for the Blood Bank.



HCLAB BB Net

The HCLAB BBNet module consolidates inventory level data from multiple blood banks to provide a single view of the quantity at each centre, grouped by blood group and product type. This makes it easy to see when a blood centre is running short on a particular product and where inventory may need to be reallocated or ordered.

Blood Transfusion

Ensuring the right blood products are dispensed to the right patients at the right time is critical to patient safety. HCLAB BB ensures accuracy throughout each step in the blood transfusion process.

The HCLAB BB module provides complete functionality for transfusion medicine laboratories. From receiving requests for blood products, handling of the testing and result entry steps including accurate cross-matching, through to the blood product dispensing steps and management reporting.

Some highlights of these key areas include:

- easy order entry via manual data entry or receive request from HIS, plus integration with Patient Master Index for patient demographic updates
- effortless monitoring of blood product(s) owing to a patient
- comprehensive result entry including reflex test rules, delta check on blood grouping, antibody identification testing panels
- clear, visible display of patient details including ABO/RH type for immediate information at the point of query
- fast, accurate crossmatching with validation check on expired blood products and blood products of different blood group, plus the ability for authorised users to bypass in emergency.
- dispensing function only allows the issue of crossmatched blood products to a patient. Inventory is auto-updated. Labels, packing list and transfusion records can be printed at time of product dispensing.
- ability to record transfusion reaction reports as needed
- comprehensive management reporting featuring reports for workload, blood product requests, antibody screening and ID

The screenshot displays the HCLABBB - [BB Result Entry] software interface. The interface includes a menu bar with options like Home, Lock, Exit, List, Prev, Next, Release, Save, Undo, Clear, Print, Comment, Preview, and Upload. The main area shows patient details for Lab No. 19000028, Order Date 05-07-2019 09:29, and a large 'O+' symbol. A table of test results is displayed below, including ABO/Rh Typing, Antibody Screening, and Cross Matching. The status bar at the bottom indicates 'Function Key: F3 - Cross Match Details', 'F8 - Release', and 'DEMOLAB - [SA - SYSTEM ADMINISTRATOR] - [DEFAULTPROFILE]'.

Test Name	Curr. Result	Prev. Result	Prev. Date	AF	Comment	Unit	Reference Range
ABO/Rh Typing	O Rh (D) Positive						
Anti-A	Negative			R			
Anti-B	Negative			R			
Anti-D	1+			R			
Cell A	1+			R			
Cell B	1+			R			
Antibody Screening	Negative			R			
MP I	Negative			R			
MP II	Negative			R			
MP III	Negative			R			
MP IV	Negative			R			
Prepare Blood Product				R			
Whole Blood	2 (2)			N			
Cross Matching				R			
Whole Blood (19012394...	Compatible			N			
Whole Blood (19012393...	Compatible			N			



HCLAB BB allows complete control of your blood bank workflow

Instrument Interfacing

HCLAB BB's advanced interfacing capabilities ensure reliable, bi-directional communication with all common blood bank analysers for screening, blood-grouping and crossmatching. This saves time manually entering results and verifies accuracy. QC results can also be captured in the HCLAB QC module.

Sysmex currently supports the following instrument interfaces with HCLAB:

Screening Test

- Sysmex HISCL Series (HBsAG, HCV, HIV, etc.)
- Sysmex XN Series (HB, PLT, HCT, WBC, etc.)
- Others as requested

Blood Grouping and Crossmatching Test

- Bio-Rad IH1000
- J&J Ortho-Clinical Innova
- J&J Ortho-Clinical Vision
- Immucor Echo
- Immucor Neo

HCLAB BB is a specialised LIS module used by multiple accredited laboratories across Indonesia, the Philippines, Malaysia, Thailand and Taiwan bringing the benefit of electronic data management to the Blood Bank and Transfusion Medicine departments.

This flexible, easy-to-use tool enables fast and reliable donor management, blood product control and transfusion management.

Built on Smart client technology, HCLAB BB is designed to have the advantages of web application and desktop application. It is easy to install and maintain and provides a reliable platform for improving your donor management programmes and hospital blood bank services.

Design and specifications may be subject to change without prior notice due to further product development.

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