

# AutoFusion

The safe blood bank information system



by [netlims.com](https://netlims.com)

AutoFusion

Blood banks serve one of the most critical functions in a hospital, and when it comes to selecting a best-of-breed blood bank management system there is no room for error. AutoFusion™ is an innovative blood bank management system that provides blood banks, transfusion services, and donor centers the security and accuracy that constitute quality medical care. Developed in collaboration with blood bank professionals, it meets the high standards and flexibility that are vital in this high-pressure environment.

## Complete control

AutoFusion includes a dynamic dashboard for a birds-eye-view of the system equipping users with the information they need to make important decisions at a glance. For further analyses, users are able to drill down more deeply directly from the dashboard. Data is presented as links, graphs, or counters, according to user preference.

## Remote ordering

Users are able to access the blood bank remotely using its web interface. This prevents the unnecessary ordering of samples or other products, as the physician has full access to patients' clinical and demographic data (blood type, past transfusion reaction, antigens, antibodies, etc.). The system then alerts the physician to the availability of suitable samples or products from the blood bank's inventory.

## Patient management

AutoFusion offers dynamic patient management functions: The system registers new patients with their full records, it matches patients with donors, and manages patients' blood type changes through system alerts and logic.

## Sample testing

To assist with transfusion processes, AutoFusion enables smooth sample acquisition and testing. After determining the patient's blood type, antibodies, and transfusion requirements, AutoFusion directs the user to order relevant products for the patient, and displays a status review. The system manages test results, blood type changes, and transfusion reactions.

## Donation Acquisition

AutoFusion is able to receive donations both at the blood bank and seamlessly from external suppliers. For donations at the blood bank, AutoFusion registers the donor and their qualifications, acquires and properly identifies the donated unit, and manages further testing as required. It also performs mandatory tests, such as blood type determination and serology, before adding the unit to the inventory.

Accepting donors from external suppliers is simple; AutoFusion identifies the unit from its details and blood type, and adds the unit to the inventory alongside the units donated at the facility. Further processes can then be performed on the units as required.

## Crossmatching

Using advanced features, AutoFusion crossmatches units to patients based on blood type and patient requirements, taking into account expirations and cancellations.

## Antibody detection system

AutoFusion includes an innovative antibody detection system with antibody negation logic.

The system boosts productivity by allowing users to automatically load kits from external files. Data is stored in the system according to the various methods and kits.

## Inventory management

AutoFusion helps automate inventory management. It allows the user to define products, perform inventory counts, order products and effectively manage shipments and returns.

AutoFusion follows and documents units through any type of processing, such as irradiation, filtering, thawing, splitting, pooling, reconstitution, derivation, etc.

## Emergency response

AutoFusion accommodates four scenarios, adjusting to the issuing regulations governing each mode:

- Routine work
- Emergency conditions - Enables the issuing of blood type O units (and AB plasma) without completing the required crossmatch tests
- Mass Casualty Incident (MCI) conditions - Enables the issuing of units to a facility rather than a patient
- Transfusion services for infants

## Reports

AutoFusion provides a range of dynamic reports (follow-up, statistical, routine and ad-hoc) which can be configured to meet your needs. The reports include: User actions, Patients, Donations, Units, Accounting, Backup, and Tests.

## Full audit trail

Blood banks require ultimate delicacy, which is why AutoFusion enables users to review every action performed in the system. System operations are saved in a log, and include the type of operation, user name, and date of execution.

## NeTLIMS - a boutique LIS vendor

### Experience and expertise

Twenty years of international experience in developing and implementing Laboratory Information Systems for clinical laboratories has established NeTLIMS as best of breed among LIS providers. Over these years, we have accumulated many impressive successful installations, delivering solutions to large laboratories and multi-site networks with unique and complex needs.

### Innovation

As an innovative company and industry leader, our aim is to leverage our technology to enable laboratories to get the most out of their facilities by attaining maximum efficiency and focusing on business growth.

### Partnership

The success of our partners is our number one priority, which is why we are committed to providing the best possible response to all requests and inquiries. Our team accompanies the customers on site, from the beginning of the installation process to its successful completion. Our goal is to make the implementation process as smooth as possible.

### Service oriented

As a boutique company, we pride ourselves in providing personalized service of the highest standards, by catering to the specific needs of each laboratory that we serve.



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