BLOOD SAFETY INFORMATION SYSTEM

BSIS V1.3.0 | Linkages & Haemovigilance

Release Notes

Contents

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SUMMARY

The V1.3 release of BSIS includes three new features:

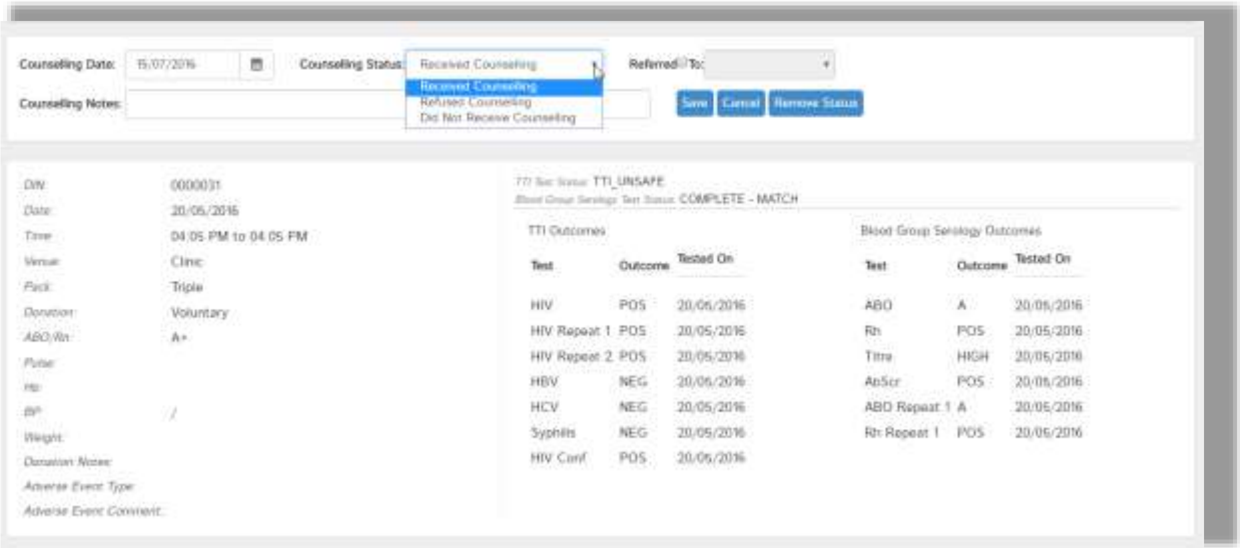
- The ability for donor counsellors to record and report on referrals of TTI Positive donors to services for further testing, care and treatment.
- The ability to add and process a Patient Request to record an order for an individual patient.
- The ability to record and report transfusion information for any blood unit issued by the blood service. The new features support the haemovigilance programmes being implemented in some countries and allows for vein-to-vein traceability.

NEW FEATURES

1. Donor Counselling

1.1. Recording referrals of TTI Positive Donor for testing, care and treatment

Donor Counsellors are now able to record whether a TTI positive donor was referred to other services for further testing, care or treatment during post-donation counselling. They can do this by selecting a checkbox.

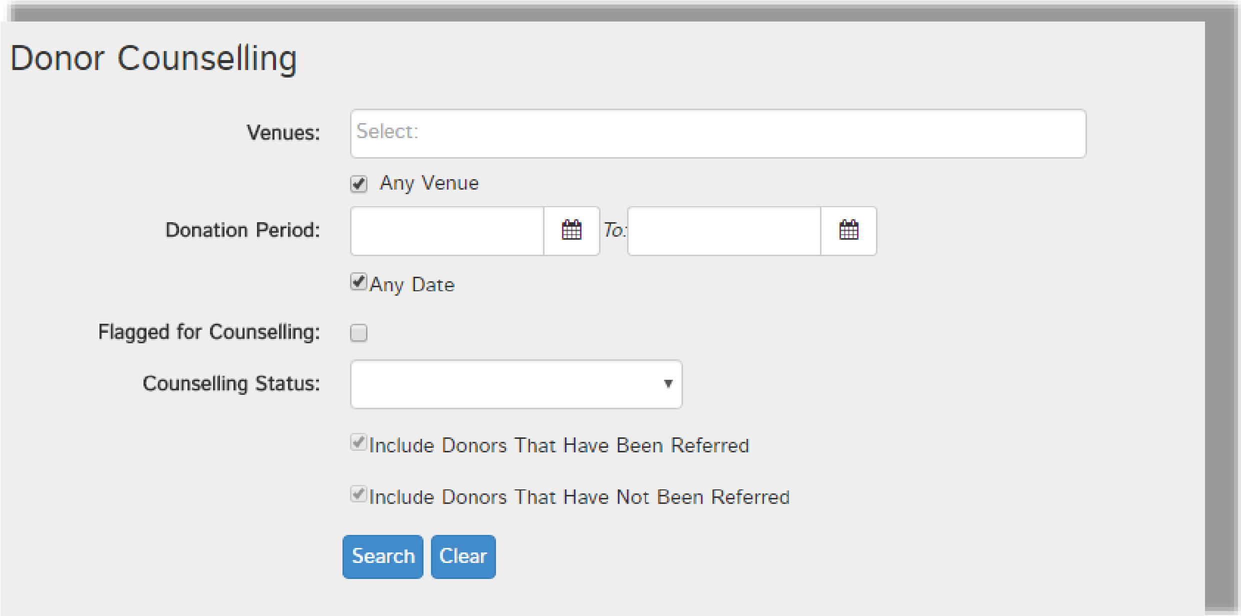


A Donor Counsellor can now also record the referral site that the donor was referred to. The referral sites must be configured as a location in Settings.

1.2. Donor Counselling report

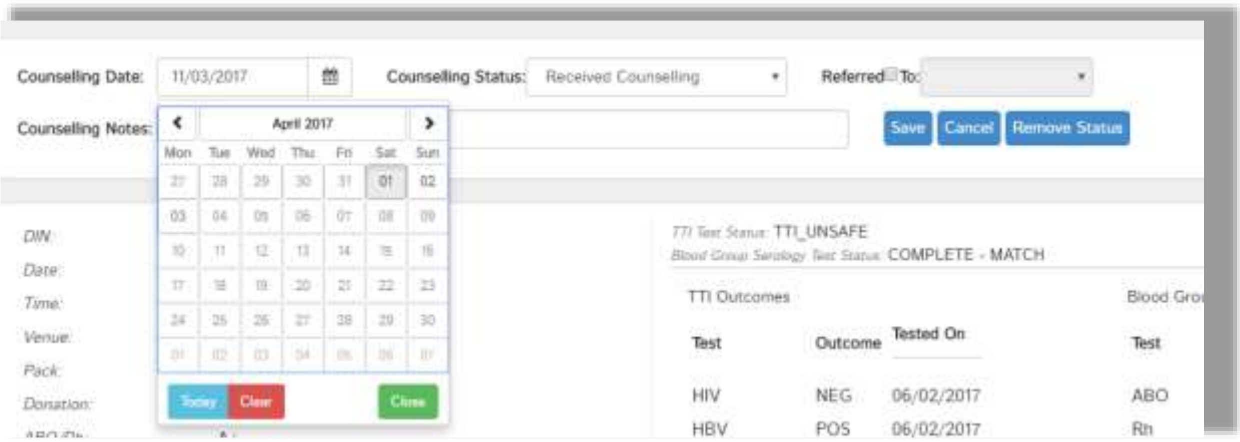
The Donors Flagged for Counselling report has been renamed to Donor Counselling Report and in addition to listing all donors who have been flagged for counselling due to a positive TTI outcome, donor counsellors are now able to produce a report showing the counselling and referral status of those donors. The report can generate a list of:

a. Donors who refused counselling
b. Donors who did not receive counselling
c. Donors that have been counselled and if so, whether or not they were referred



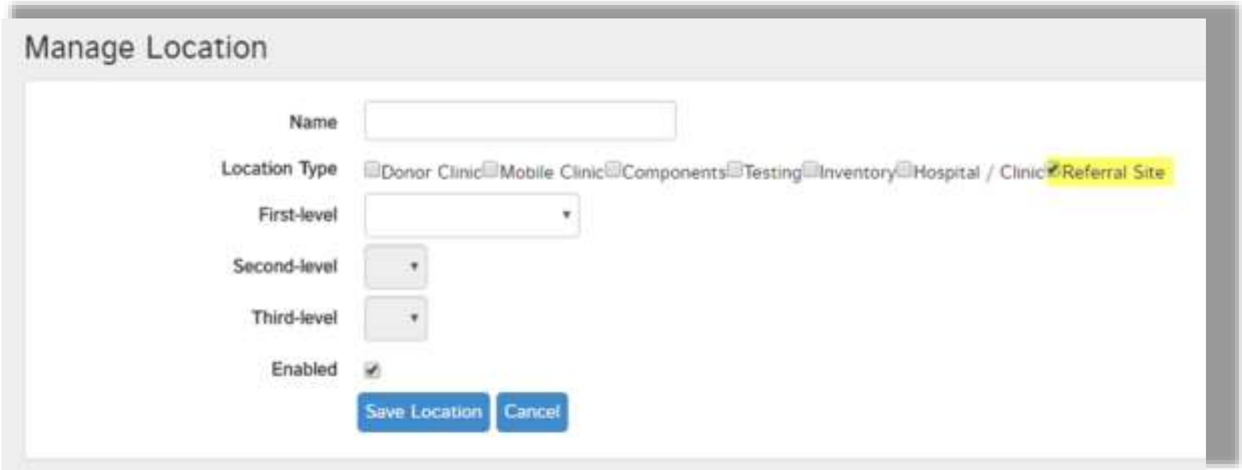
1.3. Date for post donation counselling limited to a past and current date

Donor Counselling staff are now only allowed to select a Counselling Date that is current or in the past



1.5 Set up Referral Site

An Administrator is able to add and edit a referral site under 'Manage Locations', which can be found under the Settings menu.



2. Transfusions

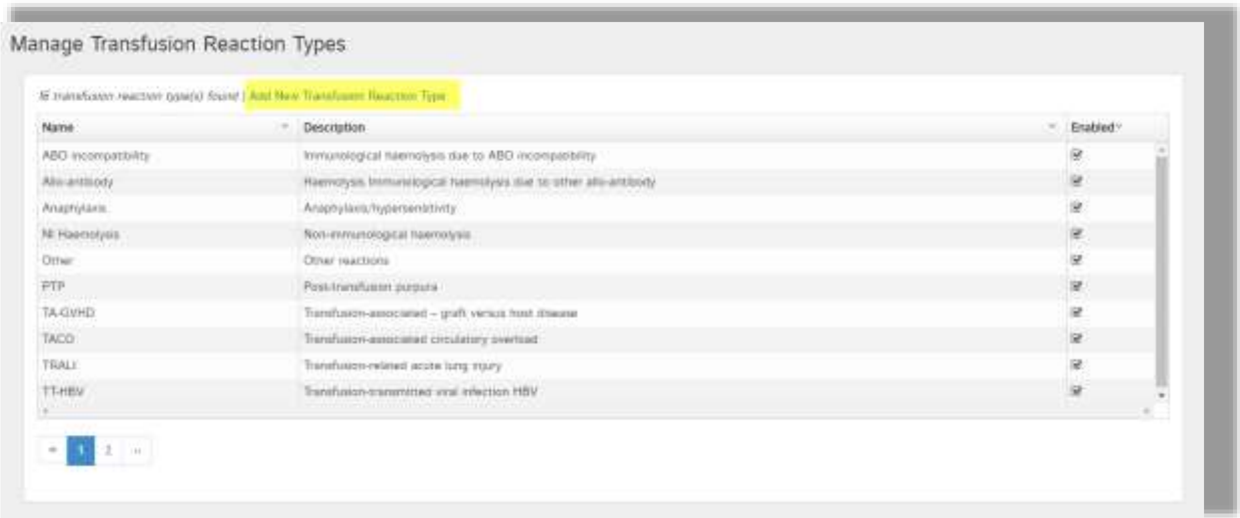
2.1. Configure Transfusion Reaction Types

Transfusion Reaction Types can be configured under the Settings menu. Note that Transfusion Reaction Types are pre-populated according to the guidelines of the W.H.O. but these may be amended during installation and set-up to better reflect the reporting needs of the blood service. Transfusion Reaction Types simply consist of a name (short name or code) and a description.

Name	Description
ABO incompatibility	Immunological haemolysis due to ABO incompatibility
Allo-antibody	Haemolysis Immunological haemolysis due to other allo-antibody
NI Haemolysis	Non-immunological haemolysis
Anaphylaxis	Anaphylaxis/hypersensitivity
TACO	Transfusion-associated circulatory overload
TRALI	Transfusion-related acute lung injury
TTBI	Transfusion-transmitted bacterial infection
TT-HBV	Transfusion-transmitted viral infection HBV
TT-HCV	Transfusion-transmitted viral infection HCV
TT-HIV	Transfusion-transmitted viral infection HIV
TT-Other	Transfusion-transmitted viral infection other
TT-Malaria	Transfusion-transmitted parasitical infection (malaria)
TT-Parasitical	Transfusion-transmitted parasitical infection (other)
PTP	Post-transfusion purpura
TA-GVHD	Transfusion-associated – graft versus host disease
Other	Other reactions

2.2 Adding a new Transfusion Reaction Type

An Administrator or Superuser is able to add a new Transfusion Reaction Type.



Manage Transfusion Reaction Types

16 transfusion reaction type(s) found | Add New Transfusion Reaction Type

Name	Description	Enabled
ABO incompatibility	Immunological haemolysis due to ABO incompatibility	☑
Allo-antibody	Haemolysis Immunological haemolysis due to other allo-antibody	☑
Anaphylaxis	Anaphylaxis/hypersensitivity	☑
NI Haemolysis	Non-immunological haemolysis	☑
Other	Other reactions	☑
PTP	Post-transfusion purpura	☑
TA-GVHD	Transfusion-associated – graft versus host disease	☑
TACO	Transfusion-associated circulatory overload	☑
TRALI	Transfusion-related acute lung injury	☑
TT-HBV	Transfusion-transmitted viral infection HBV	☑

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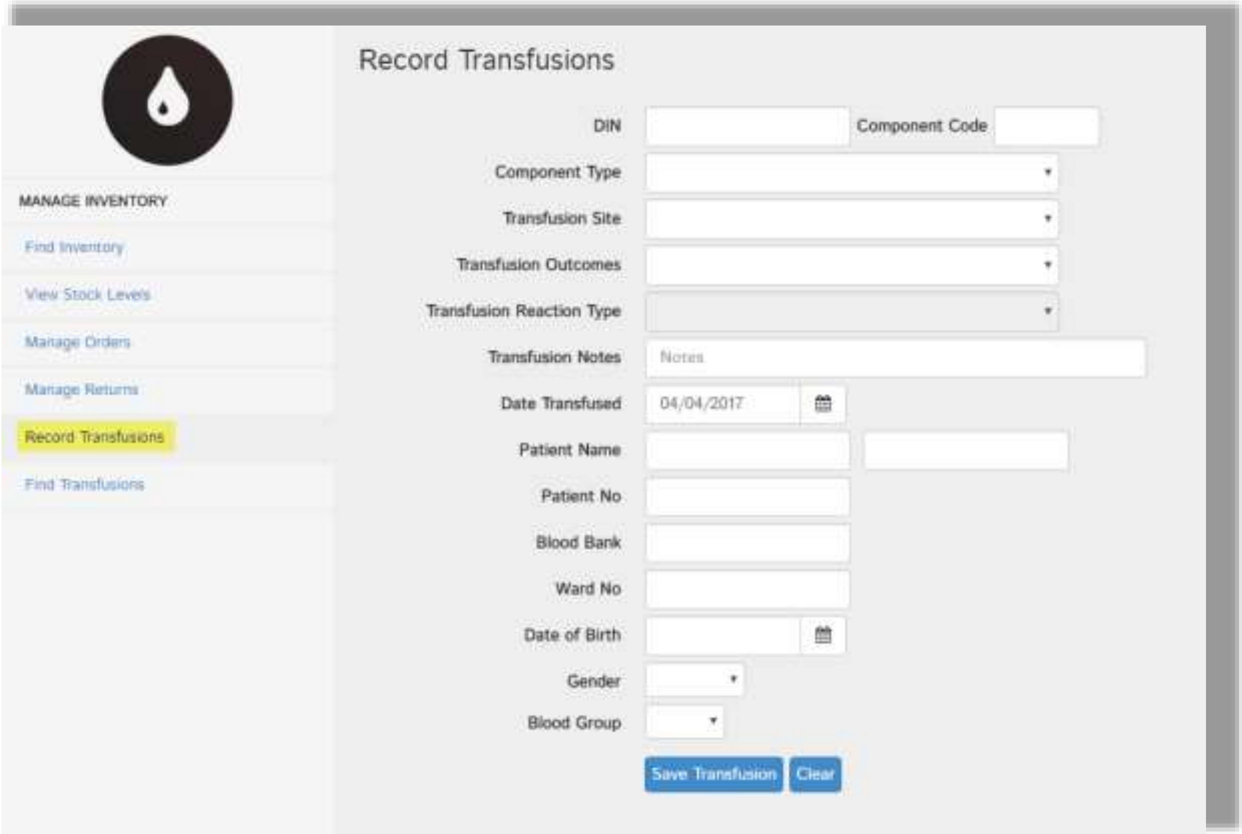
2.3 Editing Transfusion Reaction Types

Transfusion Reaction Types can also be edited by clicking on an entry, editing it and then saving it.

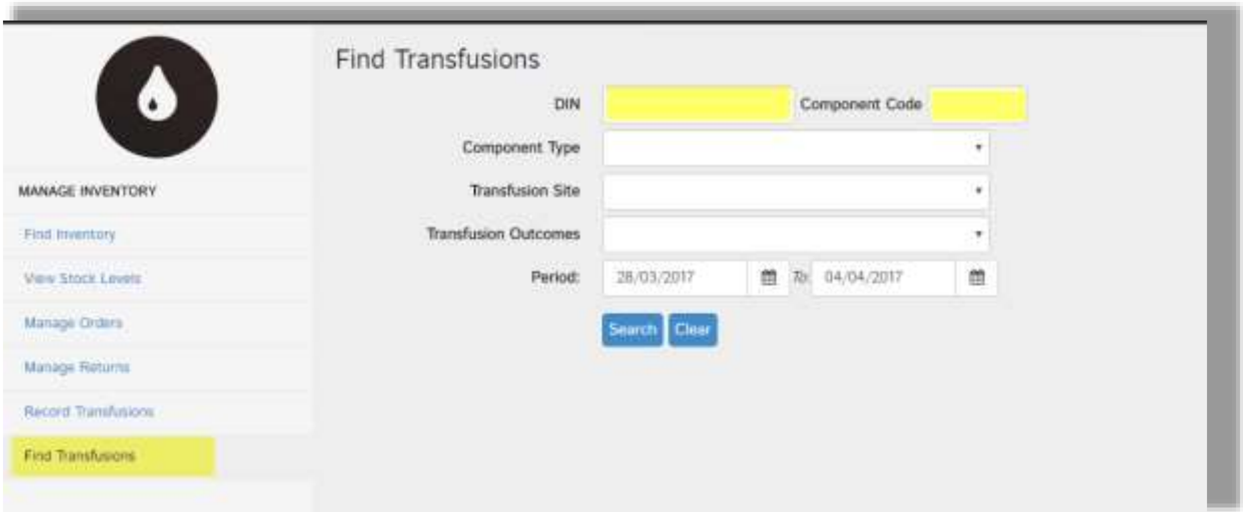
2.5 Recording Transfusions

If the blood service receives transfusion information from hospitals that is related to issued blood units, the blood service staff are now able to record this transfusion data in BSIS to allow for vein-to-vein traceability. Staff can now select 'Record Transfusions' under the Inventory menu. The data that can be recorded includes the transfusion site where the transfusion took place, the transfusion outcome (Transfused Uneventfully, Transfusion Reaction Occurred, Not Transfused and Unknown) and the type of transfusion reaction. Additional data about the patient that received the transfusion may also be captured if available. In the case where multiple units are produced from a selected component type, (specifically paediatric units) the component code for the transfused unit needs to be captured.



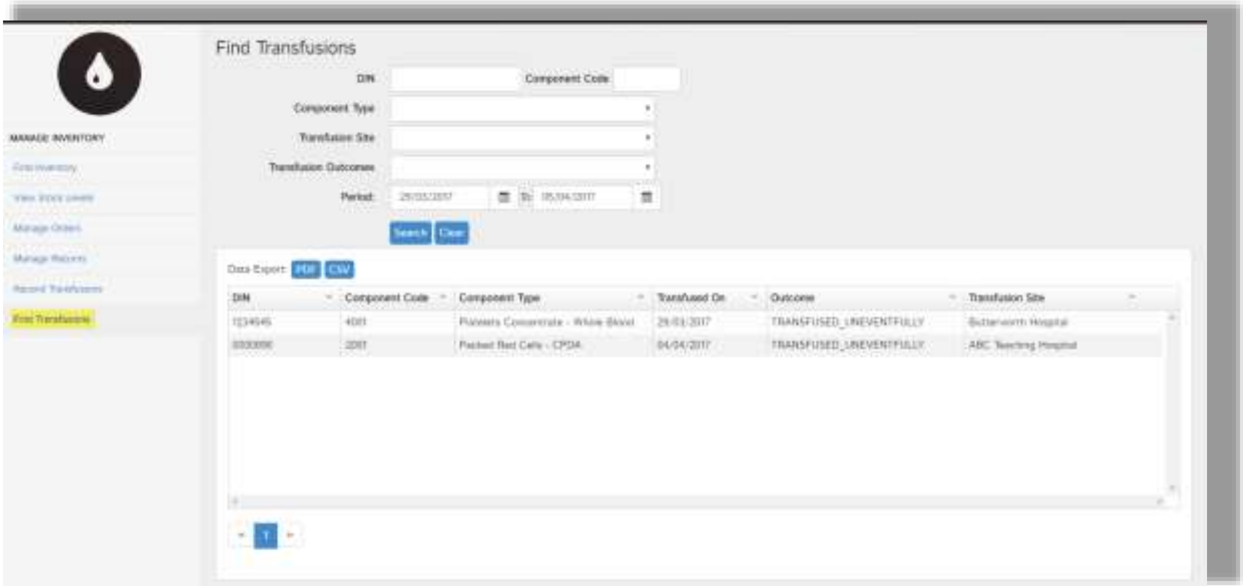
2.4 Finding Transfusions

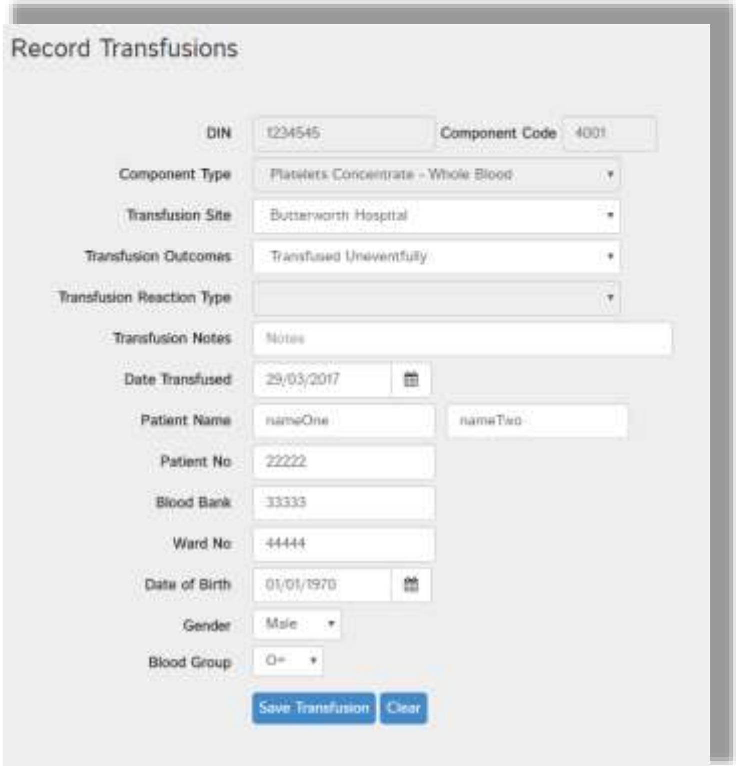
Components that have transfusion information can be identified using the ‘Find Transfusion’ report under the Inventory menu. Any component that does not have an associated transfusion record to it will be omitted from the report. Note that the ‘DIN’ and ‘Component Code’ fields are compulsory if searching for a specific component. The report can be generated according to transfusion site, type of transfusion outcome and/or component type and within a selected period based on the date of transfusion.



2.6 Viewing and Updating Transfusions

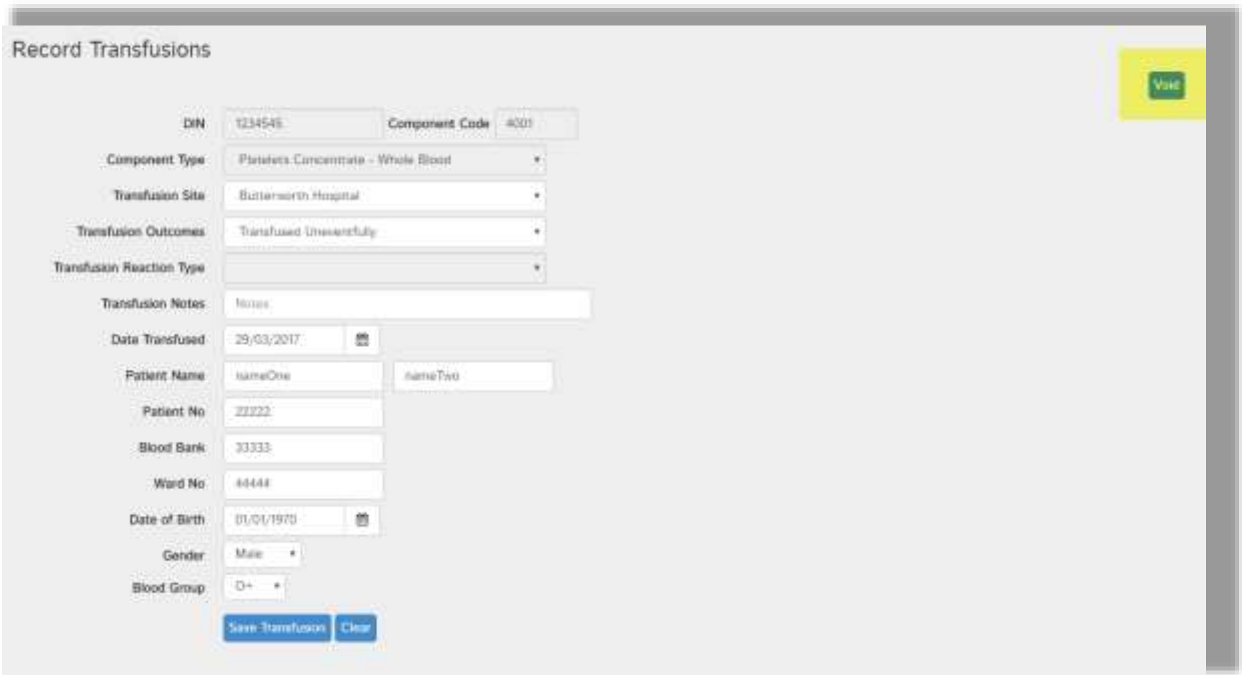
Viewing of transfusions can be done by selecting ‘Find Transfusion’ under the Inventory menu. The user has the option of searching for a specific component by providing the DIN and component code or can search according to component type, transfusion site and/or type of transfusion outcome. Double clicking on the returned result will allow the user to view or edit the transfusion record. Note that it is not possible to edit the DIN, Component Code or Component Type.





2.7 Voiding a Transfusion

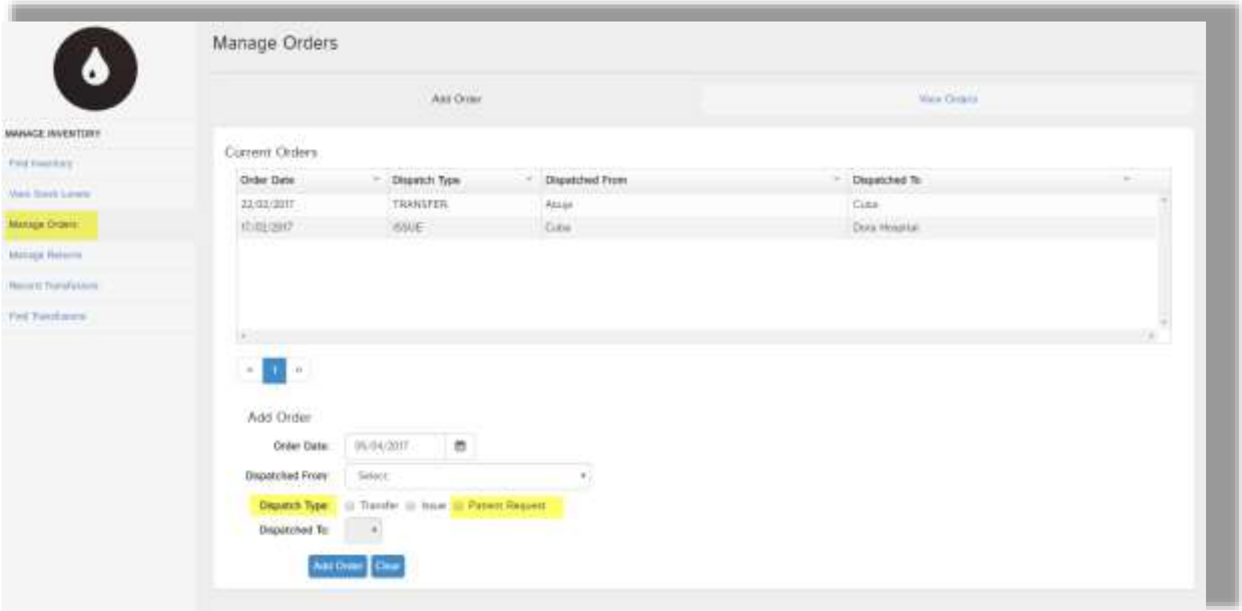
If transfusion data has been incorrectly captured, a transfusion record can be voided by clicking on the ‘void’ button on the ‘Record Transfusion’ screen. Note that this will not void the component record, only the transfusion data associated with it.



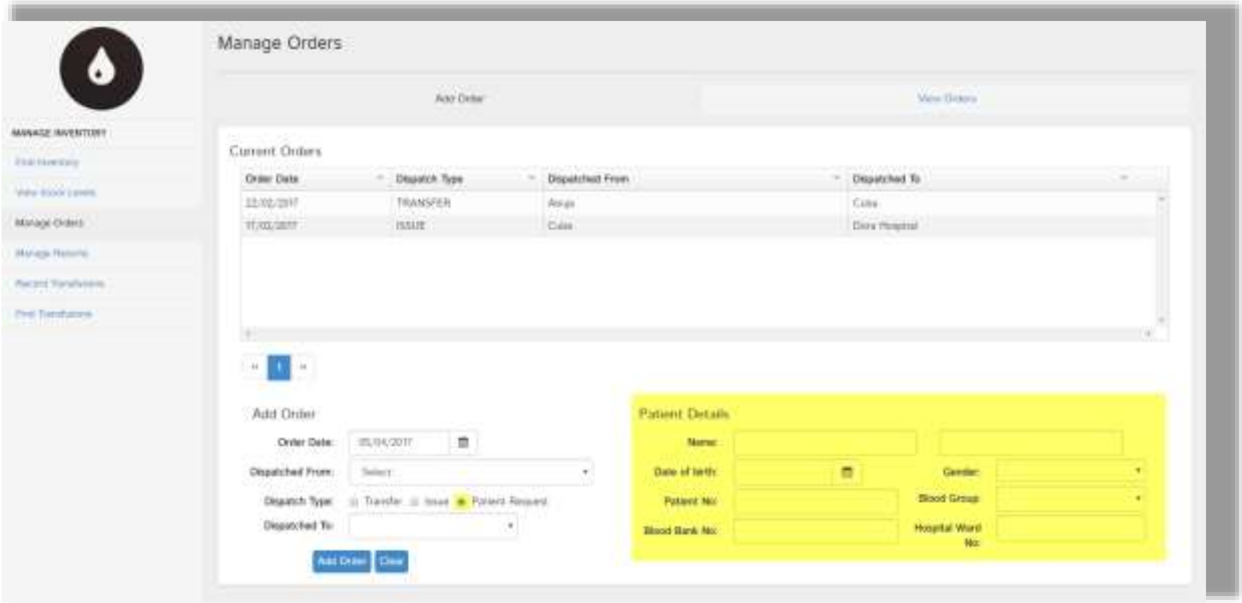
3. Patient Request

3.1 New 'Patient Request' order type.

When adding a new order, the user has an option to select 'Patient Request' for orders that are received for a specific patient .



On selection of 'Patient Request' as a Dispatch Type, the user will have to add the patient details to the order. These are the patient's name (first and last name – both mandatory) and if available, the patient's date of birth, gender, patient number and blood group as well as the blood bank number and ward no of the hospital. The rest of the order details are entered as normal i.e. the number of blood units required by component type and blood group.



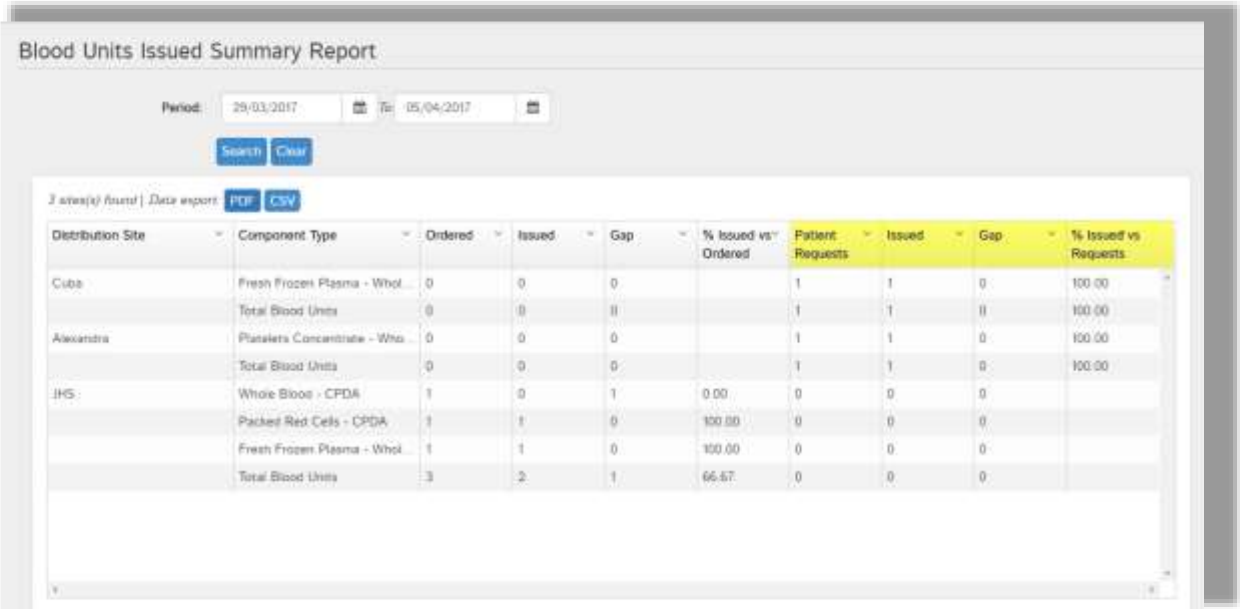
4. Reports

4.1. Additional columns in the Blood Units Issued Summary Report

Extra columns have been added to this report to cater for the new Patient Request type of order. The new additional columns are:

- Patient Requests – This is the total blood units ordered via - patient requests.
- Issued – This is the total blood units issued against patient requests.
- Gap – The difference between the total units ordered via patient request and the
- Total units issued against patient requests.
- % Issued vs Ordered – The percentage of units issued against units ordered via patient requests.

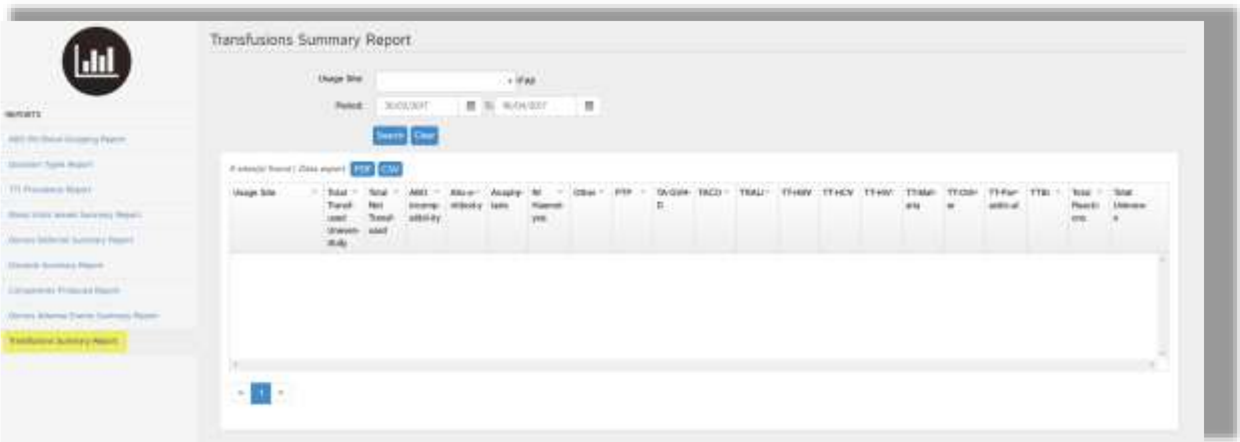
The existing columns show the total number of blood units order and issued against a bulk order where the Dispatch Type is Issue.



4.2. Transfusions Summary Report

This new report provides information on:

- The total number of blood units recorded as "Transfused Uneventfully"
- The total number of all blood units recorded as 'Not Transfused'
- The total number of transfusion reactions according to reaction type and the total number of all blood units recorded as "Transfusion Reaction Occurred".
- The total number of all blood units recorded as 'Transfusion Unknown'.



4.3 TTI Prevalence Report updated

This report has been amended so that if there are no donations records (by gender, for a venue within the selected time period, then the row for that gender will be omitted from the report.

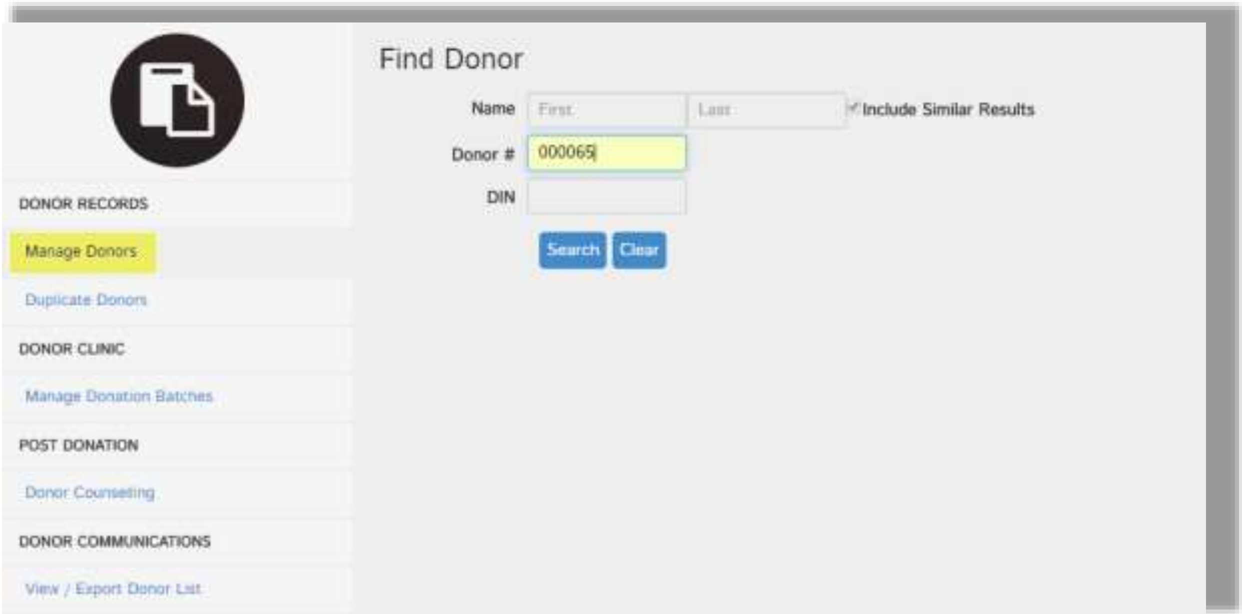
4.4 Donation Types Report updated

This report has been amended so that if there are no donations records (by gender, for a venue within the selected time period, then the row for that gender will be omitted from the report.

5. Donor Management

5.1 Improvement to 'Find Donor' search

When a user enters a Donor's name (first and/or last), DIN or Donor Number, the other search fields become disabled. Previously a combination of search criteria could be entered but the search only used the donor's names and ignored the DIN or Donor Number, which was confusing.



IMPROVEMENTS AND UPDATES

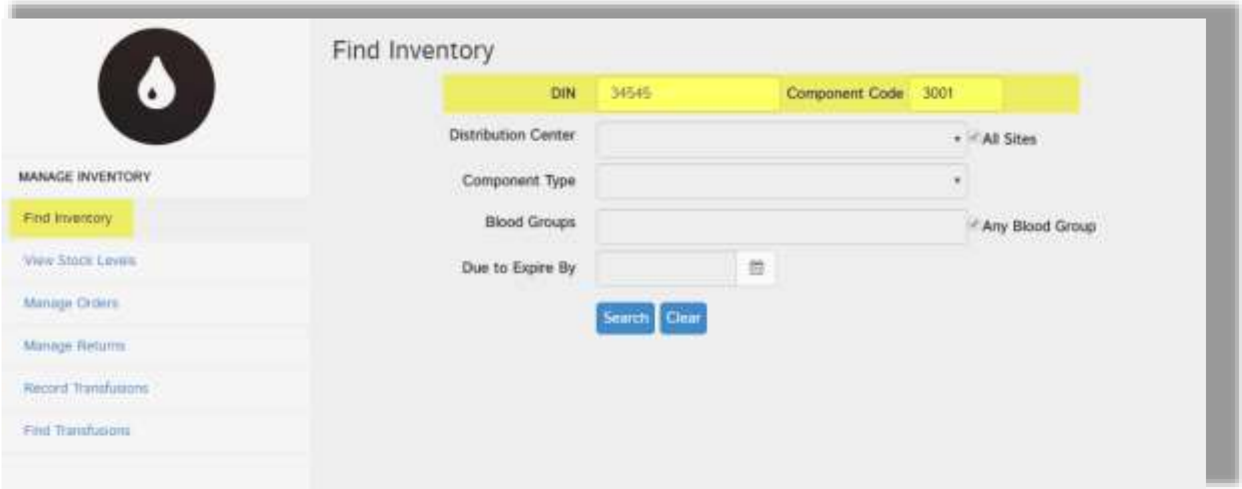
1. BSIS version will display on the front-end

The BSIS Login Page now displays the version of BSIS installed, making it easier to identify for upgrade and support purposes.

BUG FIXES

1. ‘Find Inventory’ search criteria disables other search fields

When a user enters a DIN and Component Code in order to search for a specific component, the other search fields are now disabled. Note that it is still possible to search using a combination of the other search criteria if the DIN and Component Code are left blank.

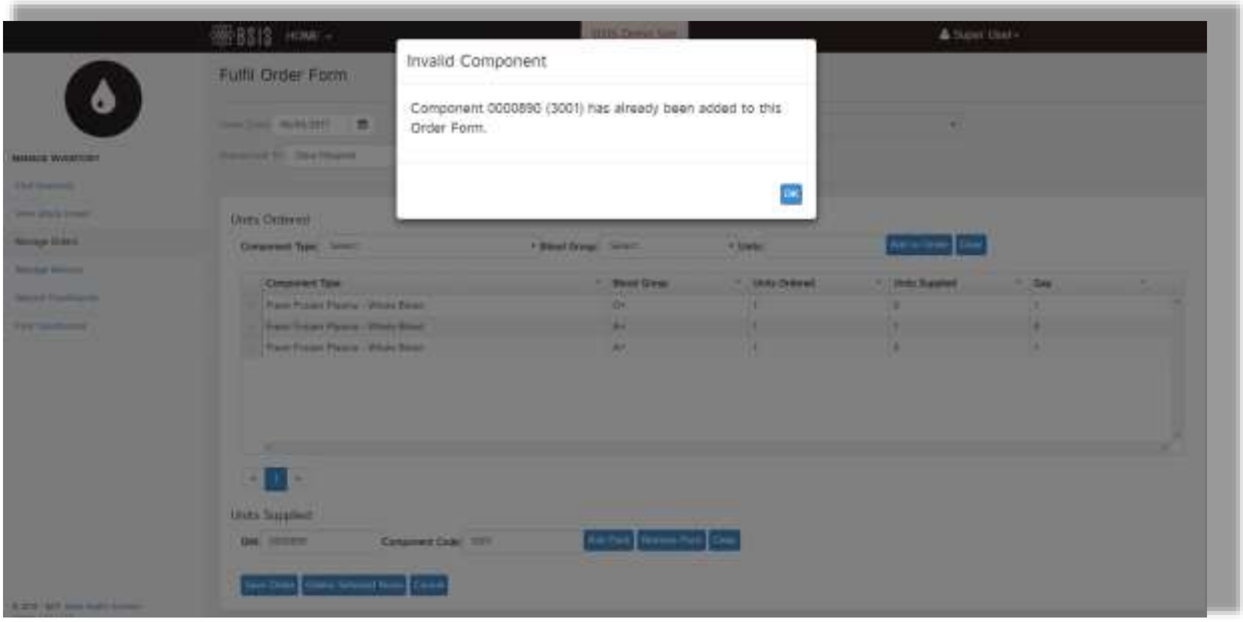


2. When merging Donor details, the name display order is now correct

When merging donor details, the donor name details now display in the following sequence: first name, middle name, last name.

3. Cannot create multiple issue orders with the same component

The same component cannot be assigned to another order which has been saved but not yet dispatched. When this happens an alert is rendered to the user that the component has been saved to another order.



4. Changed the error message for saving an invalid component code

The error message for when an invalid component is entered during the create order process has been updated to a more appropriate error message.

5. Default BSIS Date Format is now used throughout the BSIS application

The default date format as specified under settings is now applied throughout the BSIS application.

6. Table headers showing full text

All table headers in the BSIS application now show the full text. This text may wrap if it is too long for the column width but is not cut off as was happening previously.