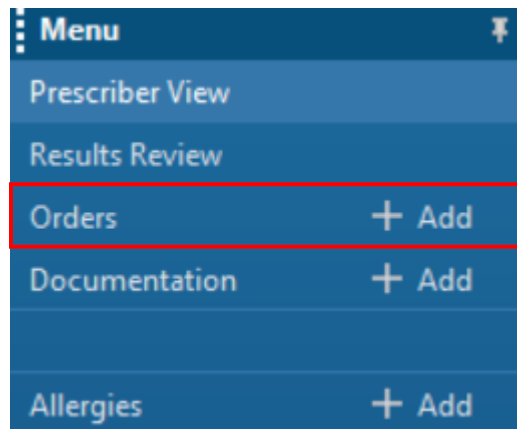


BLOOD ADMINISTRATION

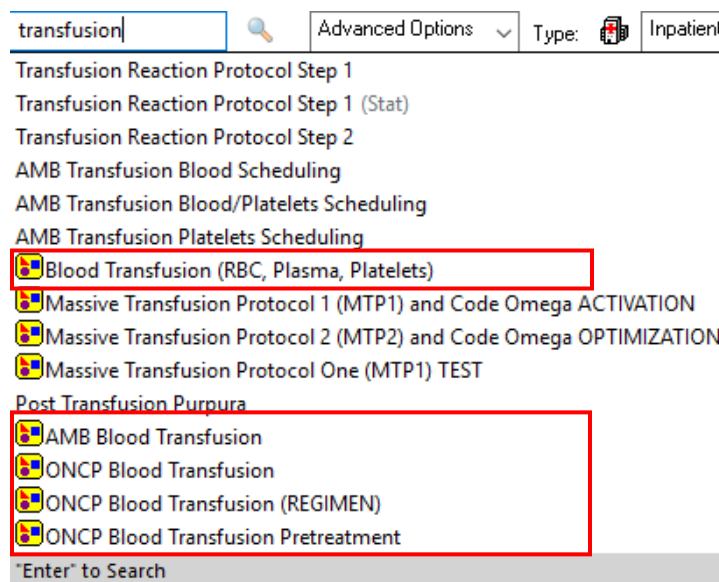
Blood Transfusion: Orders

Placing Transfusion PowerPlan: Prescribers

1. Navigate to Table of Contents (Blue Menu) and select  next to orders.



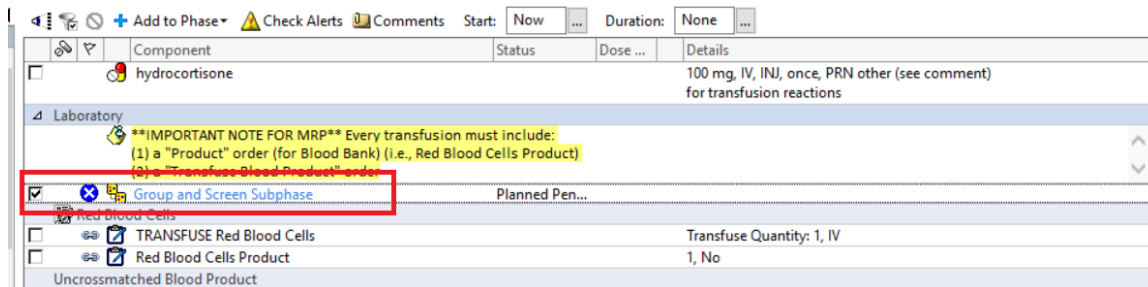
2. The Add Order dialogue box opens. In the search bar, start typing in “transfusion” and select the appropriate PowerPlan to view.



3. Check boxes next to medications to include in the PowerPlan where applicable

| Pre-Infusion Medications | | |
|--------------------------|-----------------|---|
| <input type="checkbox"/> | acetaminophen | 650 mg, PO, TAB, once 30 minutes pre-transfusion |
| <input type="checkbox"/> | diphenhydrAMINE | 25 mg, PO, CAP, once 30 minutes pre-transfusion |
| <input type="checkbox"/> | diphenhydrAMINE | 25 mg, IV, INJ, once 30 minutes pre-transfusion |

4. Select Group and Screen Subphase to enter the required information within the subphase. This must be done when ordering the transfusion order for the first time.



Component Status Dose ... Details

hydrocortisone 100 mg, IV, INJ, once, PRN other (see comment) for transfusion reactions

Laboratory

****IMPORTANT NOTE FOR MRP** Every transfusion must include:
(1) a "Product" order (for Blood Bank) (i.e., Red Blood Cells Product)
(2) a "Transfuse Blood Product" order**

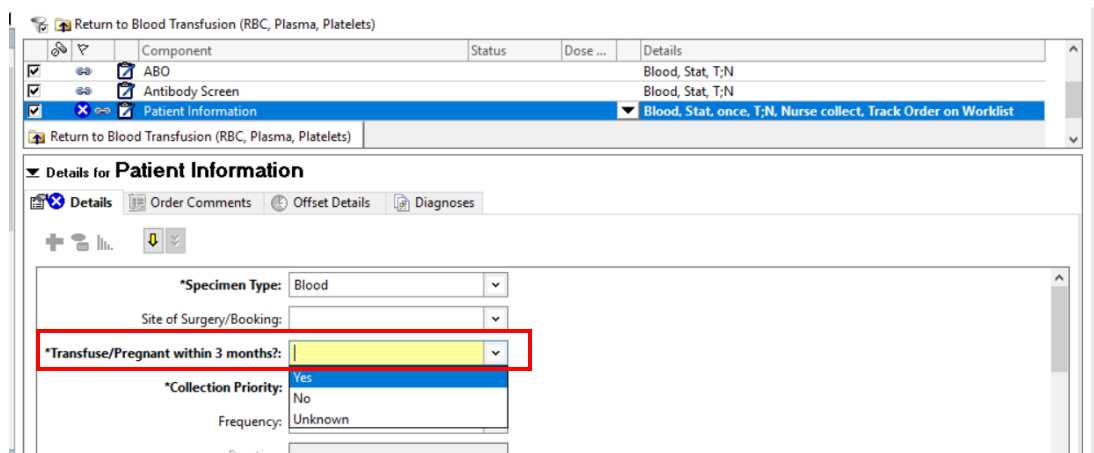
Group and Screen Subphase Planned Pen...

TRANSFUSE Red Blood Cells Transfuse Quantity: 1, IV

Red Blood Cells Product 1, No

Uncrossmatched Blood Product

5. Ensure to answer the Transfuse/Pregnant within three months question



Return to Blood Transfusion (RBC, Plasma, Platelets)

Component Status Dose ... Details

ABO Blood, Stat, T;N

Antibody Screen Blood, Stat, T;N

Patient Information Blood, Stat, once, T;N, Nurse collect, Track Order on Worklist

Return to Blood Transfusion (RBC, Plasma, Platelets)

Details for Patient Information

*Specimen Type: Blood

Site of Surgery/Booking:

***Transfuse/Pregnant within 3 months?:**

*Collection Priority: Yes

No

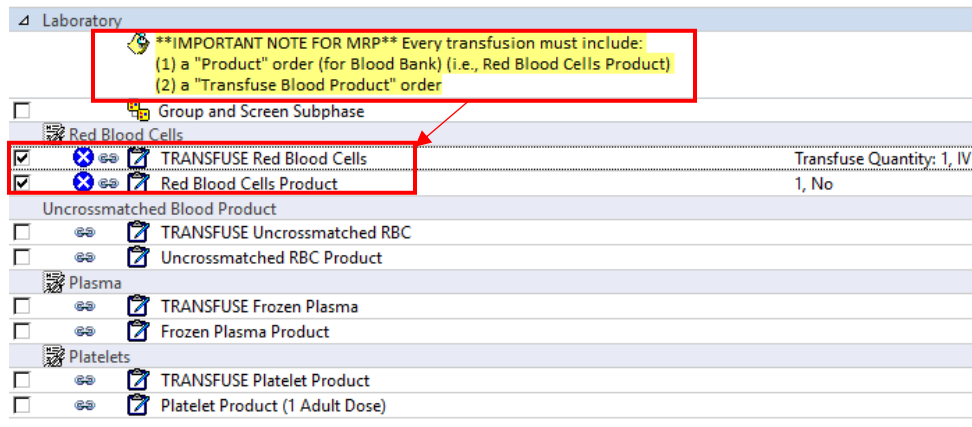
Frequency: Unknown

- Note: Group and Screen samples are usable for 96 hours if the patient has been transfused or pregnant in the last 3 months, otherwise they can be used for up to 35 days.

Continued

6. Select Blood Products to be transfused




- **Note:** “Product” Order is prechecked when checking the “Transfuse Blood Product” Order. It is important to ensure both orders are checked as shown below.



****IMPORTANT NOTE FOR MRP** Every transfusion must include:
(1) a "Product" order (for Blood Bank) (i.e., Red Blood Cells Product)
(2) a "Transfuse Blood Product" order**


| Group and Screen Subphase | Product | Transfuse Quantity |
|------------------------------|---|--------------------|
| Red Blood Cells | <input checked="" type="checkbox"/> TRANSFUSE Red Blood Cells | 1, IV |
| | <input checked="" type="checkbox"/> Red Blood Cells Product | 1, No |
| Uncrossmatched Blood Product | | |
| | <input type="checkbox"/> TRANSFUSE Uncrossmatched RBC | |
| | <input type="checkbox"/> Uncrossmatched RBC Product | |
| Plasma | | |
| | <input type="checkbox"/> TRANSFUSE Frozen Plasma | |
| | <input type="checkbox"/> Frozen Plasma Product | |
| Platelets | | |
| | <input type="checkbox"/> TRANSFUSE Platelet Product | |
| | <input type="checkbox"/> Platelet Product (1 Adult Dose) | |

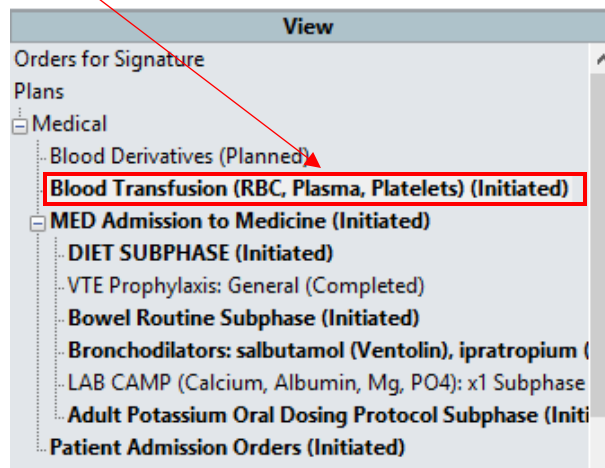
7. IMPORTANT: Ensure the number of units entered in “Product” and “Transfuse Blood Product” Orders match.

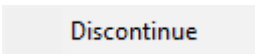
8. After filling out all the missing required details, indicated by , click  to place the PowerPlan in a “Planned” state or click  to initiate the PowerPlan now.

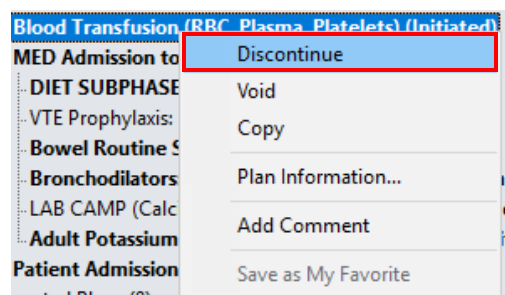
Transfusion Reaction and Cancelling/Discontinuing the PowerPlan

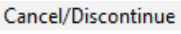
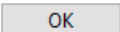
In the event that a nurse has notified you of a possible transfusion reaction, and when you have determined a transfusion reaction has occurred, the nurse will stop the transfusion immediately. Follow the steps below to cancel/discontinue the transfusion PowerPlan.

1. Navigate to Table of Contents (Blue Menu) and select 
2. From the view column, right-click the initiated Blood transfusion order.




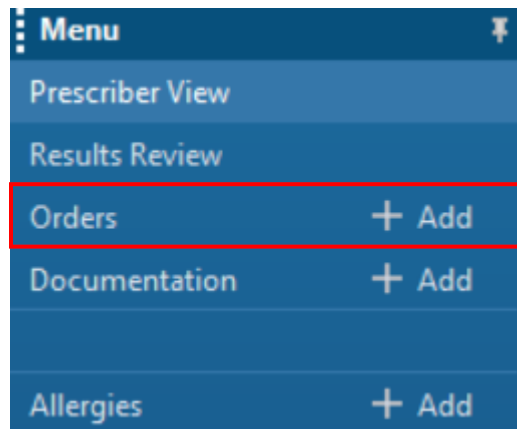
3. Select 

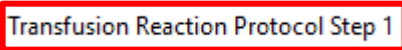


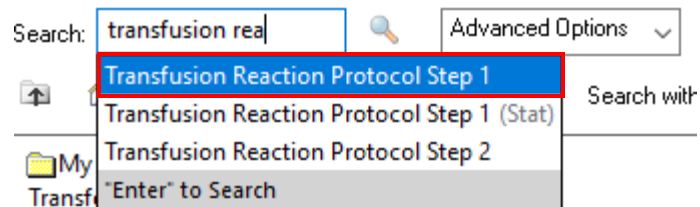
- **Note:** You can cancel a specific order within a PowerPlan by right-clicking on the order and selecting . You are then prompted to select the reason for cancelling the order.
4. The Discontinue dialogue box opens, please note that the order and the accompanying consent form are preselected. Click 

Continued

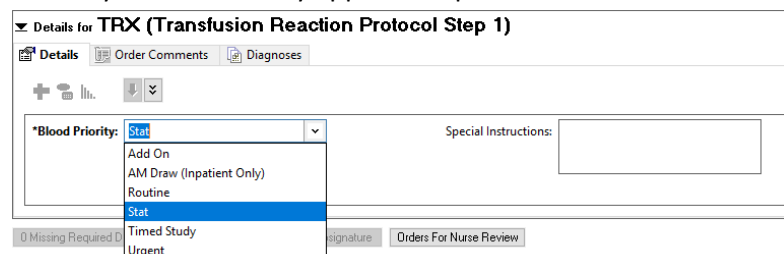
- IMPORTANT: Following a transfusion reaction and discontinuation of the transfusion order/PowerPlan, you **must** order **Transfusion Reaction Protocol Step 1**.
- Navigate to Table of Contents (Blue Menu) and select  next to orders.

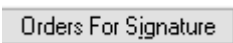



- Start typing in "transfusion reaction" and select .



- Indicate the Blood Priority and include any applicable special instructions



- Click  and then , both located in the bottom-right corner of the screen.

Current State Infuse Vs. Future State Transfuse

In the future state, nurse enters Pickup/Delivery Ready Order, which is replacing the INFUSE order in MEDITECH.

Current State

| Category | Procedure | Procedure Name | Pri | Qty | Date | Time Here |
|----------|-----------|----------------------------|-----|-----|------|-----------|
| 1 | IM | INFUSE | | | | |
| | | Infuse/Admin Blood Product | R | I | T+ | N |

Order Site: SCG *
 Collected By Nurse/RT/OR (Yes/No): N* Collected By: _____
 Comments: _____
 Product: RCC *Red Cell Concentrate Uncrossed Blood? N*
 Comments: _____
 Is the patient in the OR, Recovery Room or an Out-PT CLINIC? *
 Is patient actively bleeding? * Is ordering practitioner on-site? *
 Was Order Set ORD249 or ORD201 completed to order RCC? *

+ paper printout/pneumatic tube

Future State

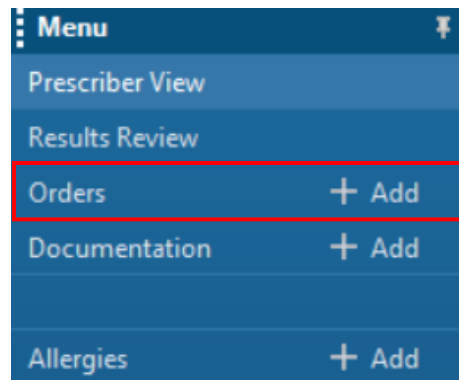
Details for Pickup/Delivery Ready Order

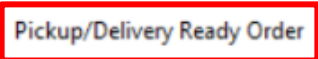
*Blood Priority: Routine
 *Product Type: Red cells
 *Quantity: 1
 Order Comments: _____

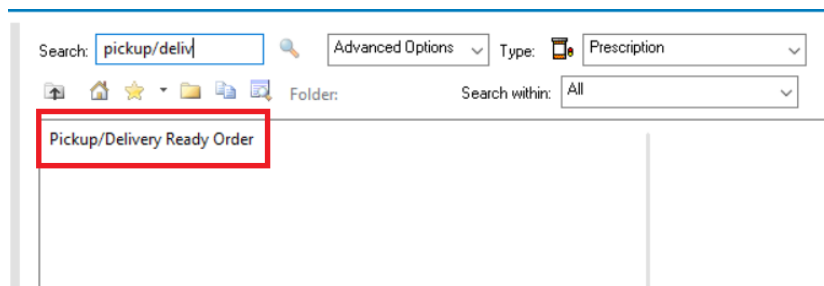
+ paper printout/pneumatic tube

Ordering Pickup/Delivery Order: Nursing Staff

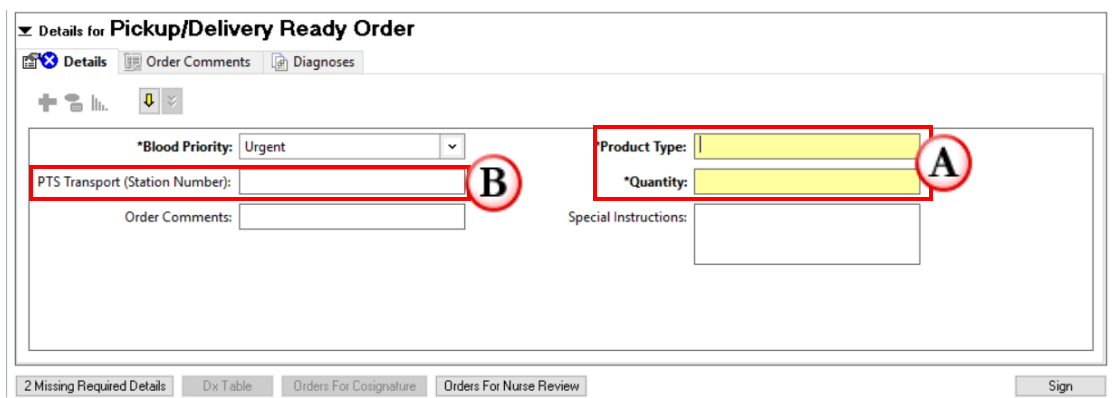
1. Navigate to Table of Contents (Blue Menu) and select  next to orders.



2. Start typing in "transfusion reaction" and select 



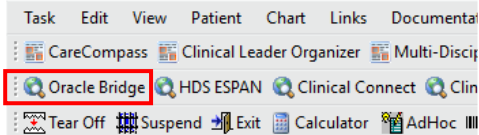
3. Fill in the missing required details and additional information where applicable.
 - A. **Product Type** and **Quantity** are required to sign the order.
 - B. PTS Transport (Station Number): Utilised when the product is to be sent through the pneumatic tube system (SCS only).



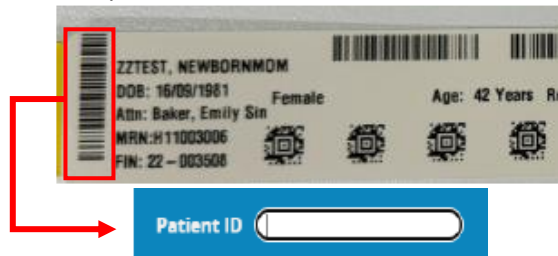
Bridge Blood Transfusion

Single-Unit Transfusion Start

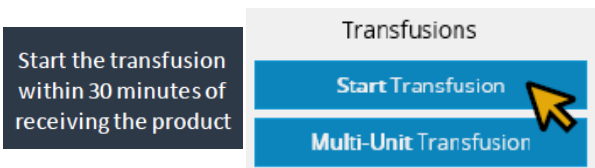
1. Click **Oracle Bridge** from the Tool Bar.



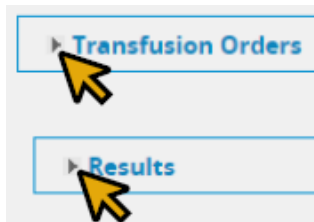
2. Scan patient's wristband.



3. Click **Start Transfusion**



4. Expand and check **Transfusion Orders** and **Blood Results**.



5. Complete pre-transfusion checks. Then click Continue.



6. Scan the Blood Bank Cross Match **Recipient Tag**, and click **Continue**.

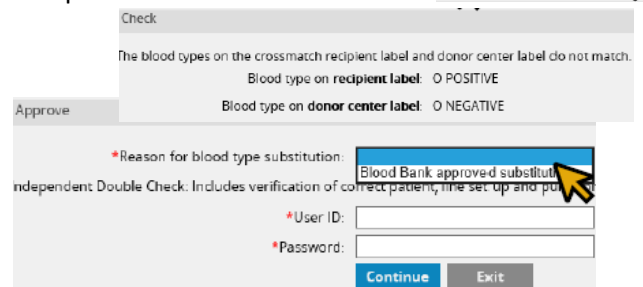
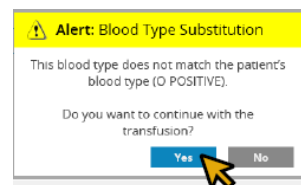


7. Scan the Blood Donor Bag Labels (U pattern)

1. Scan the Unit Number
2. Scan the Blood Product
3. Scan the Expiration Date
4. Scan the Donor Blood Type



8. If the blood bag does not match the patient's blood type 1:1, a **Substitution reason** and the witness' **co-signature** is required.



TRANSFUSION AND TRANSFUSION REACTION HOSPITAL INFORMATION SYSTEM (HIS)

- Second nurse to continue with their independent double check. Click **Continue**.

Cosignature
Independent Double Check

Independent double check is completed at the bedside as per policy 440-015-005

*User ID:

*Password:

Continue **Exit**

- Complete vitals, and click **Continue**.

Observation Date/Time: 8/30/2024 13:50 EDT [Change](#) [Sh](#)

*Temperature: °C

*Site:

*Heart Rate: beats/minute

*Blood Pressure: / mmHg palp

*Method:

*Respirations: breaths/minute

*O² Saturation: %

Comment:

Continue **Exit**

- Click **Start** when blood has reached the patient

Select START after spiking the blood bag and starting the infusion.

Start **Exit**

Hold Transfusion

- If there is a transfusion started but needs to be held, click **Hold Transfusion**.

Multi-Unit Transfusion

Hold Transfusion

End Transfusion

- Scan the **Blood Unit Number** and **Product Number** OR click the corresponding radial button for the blood product, and click **Continue**

Hold Transfusion

*Unit number:

*Blood product:

Continue **Exit**

Active Transfusions

Started

8/30/2024 14:04 EDT

- Document within the **Start Hold Date and Time** and **Reason for Hold ONLY**, and click **Continue**.

Start Transfusion Date and Time: 8/30/2024 14:04 EDT

*Start Hold Date and Time:

*Reason for Hold:

End Hold Date and Time:

Comments:

Continue **Exit**

End Hold

- If there is a transfusion on hold that needs to be resumed, click **Hold Transfusion**.
- Scan the **Blood Unit Number** and **Product Number** OR click the corresponding radial button for the blood product, and click **Continue**
- Document the **End Hold Date and Time**, add comment if applicable, and click **Continue**

Start Transfusion Date and Time: 9/24/2024 08:50 EDT

*Start Hold Date and Time: 9/24/2024 08:51

*Reason for Hold: Lost IV access

End Hold Date and Time:

Comments:

Continue **Exit**



TRANSFUSION AND TRANSFUSION REACTION

HOSPITAL INFORMATION SYSTEM (HIS)

Ad Hoc Vital Signs

1. Click **Record Vital Signs**

2. Enter patient vital signs, and click **Continue**.

End Transfusion

1. When transfusion is complete, click **End Transfusion**.

2. Scan the **Blood Unit Number** and **Product Number** OR click the corresponding radial button for the blood product, and click **Continue**.
3. Document the volume transfused and if a Transfusion Reaction occurred. Click **Continue**.

4. Enter End Transfusion vital signs, click **Continue** to complete the transfusion.

Transfusion Reaction

1. Document the End Transfusion workflow by choosing **Yes** in the dropdown menu for **'Transfusion reactions?'** before ending the transfusion.

2. Type **'see Nursing Notes "Blood Transfusion"'** in comment section, and click **Continue**.

3. Check off the patient's signs and symptoms, then click **Continue**.
4. Read and follow the **Reaction Instructions**, and click **Continue**.

5. Enter End Transfusion vital signs, click **Continue**.
6. Complete the reaction checks and ensure to follow policy. Click **Continue**.

Brown Transfusion History

1. To review or make changes to transfusions in

2. Click on ⓘ to view details or ✎ to make changes. Click the **No** hyperlink for the completed transfusion to change to Yes if the patient had a transfusion reaction.

Multi-Unit Transfusion Start

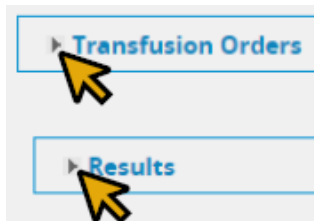
1. Repeat steps 1 and 2 from the **Single-Unit Transfusion Start** workflow
2. **Record Vitals** in Bridge
3. Click **Multi-Unit Transfusion**



7. Is **Recipient Tag Present?** **Yes**
If **No** is selected, skip to step 8

Recipient tags are Blood Bank Issue Labels with patient and blood product information. Select Yes if recipient tag is complete (patient's name, DOB, MRN#, and blood type). This will be the case for crossmatched blood products. Otherwise, select No.

4. Expand and check **Transfusion Orders** and **Blood Results**.



8. If **recipient tag** is complete and **Yes** is selected, scan the Blood Bank Cross Match **Recipient Tag**, and click **Continue**.

5. Complete pre-transfusion checks. Then click **Continue**.

Red asterisks (*) are mandatory fields

- If **recipient tag** is not complete, select **No**.

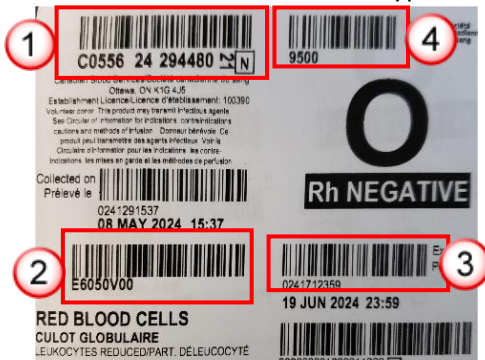
6. Scan the Blood Bank Cross Match **Recipient Tag**, and click **Continue**.



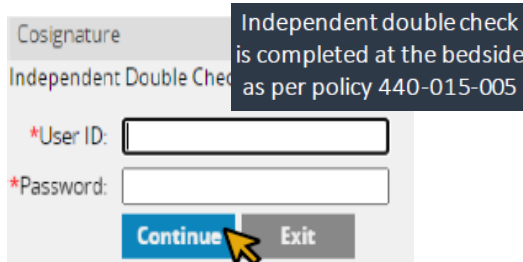
TRANSFUSION AND TRANSFUSION REACTION HOSPITAL INFORMATION SYSTEM (HIS)

12. Scan the Blood Donor Bag Labels (U pattern)

1. Scan the Unit Number
2. Scan the Blood Product
3. Scan the Expiration Date
4. Scan the Donor Blood Type



13. Second nurse to continue with their independent double check. Click **Continue**.



14. The blood component will appear in a table format below. Repeat steps 6-10 to "add" the other ordered blood components to this table.

| Date/Time | Blood product | Unit number | Division | Donor blood type | Crossmatch | Verify | Volume | Reaction | End Transfusion Date/Time | Release |
|--------------------|--------------------------|--------------|----------|------------------|------------|--------------------------|--------|----------|---------------------------|---------|
| 9/3/2024 14:32 EDT | RBC CPD AS1 S00 | W06709971803 | 00 | O negative | No | <input type="checkbox"/> | | | | |
| 9/3/2024 14:24 EDT | RBC CPD AS1 S00 | W06709971803 | 00 | O negative | Yes | <input type="checkbox"/> | | | | |

The table lists in reverse chronological order with the most recently scanned component at the top

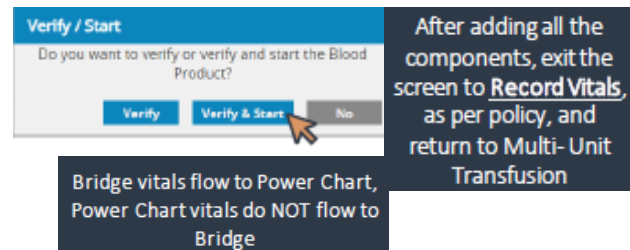
15. When all components are added, click the **Verify** radial button

| Donor blood type | Crossmatch | Verify | Volume | Reaction | End Transfusion Date/Time | Start |
|------------------|------------|--------------------------|--------|----------|---------------------------|-------|
| O negative | No | <input type="checkbox"/> | | | | Start |
| O negative | Yes | <input type="checkbox"/> | | | | Start |

16. To select the blood bag that is ready to transfuse, either:

1. Scan the **Unit Number** and the **Blood Product** of the blood bag
OR
2. Click **Verify** beside the blood details that match the blood bag

17. Click **Verify & Start** once the blood has reached the patient



18. When the blood bag is finished infusing, enter the volume transfused and if a reaction occurred

| number | Division | Donor blood type | Crossmatch | Verify | Volume | Reaction | End Transfusion Date/Time | End |
|---------|----------|------------------|------------|-------------------------------------|--------|----------|---------------------------|-------|
| 3071803 | 00 | O negative | No | <input type="checkbox"/> | | | | Start |
| 5971803 | 00 | O negative | Yes | <input checked="" type="checkbox"/> | | | 9/3/2024 14:47 | End |

- Update the End transfusion date/time, click **End**.

| Date/Time | Blood product | Unit number | Division | Donor blood type | Crossmatch | Verify | Volume | Reaction | End Transfusion Date/Time | Release |
|---------------------|--------------------------|-------------|----------|------------------|------------|-------------------------------------|--------|----------|---------------------------|---------|
| 5/30/2024 14:28 EST | RBC CPO AS1 S03 | W6570807803 | 00 | O negative | No | <input type="checkbox"/> | | | | End |
| 5/30/2024 14:28 EST | RBC CPO AS1 S03 | W6570807803 | 00 | O negative | Yes | <input checked="" type="checkbox"/> | 250 | No | 5/30/2024 14:15 | End |

- Enter access site of transfusion, click **Continue**.

* IV Site:

* Site of Administration:

Continue **Exit**

- The transfusion status updates.

| Order | Division | Transfusion type | Crossmatch | Verify | Volume | Reaction | End Transfusion Date/Time | Release |
|--------|----------|------------------|------------|--------|--------|----------|---------------------------|-------------------|
| 871830 | 00 | O POSITIVE | No | 00 | 200.00 | No | 5/30/2024 14:15 | Transfusion Ended |

- Repeat steps 13-16 to start and end the other ordered blood components, ensuring that the **Verify** radial button is selected.

| Date/Time | Blood product | Unit number | Division | Donor blood type | Crossmatch | Verify | Volume | Reaction | End Transfusion Date/Time | Release |
|---------------------|--------------------------|-------------|----------|------------------|------------|-------------------------------------|--------|----------|---------------------------|---------|
| 5/30/2024 14:28 EST | RBC CPO AS1 S03 | W6570807803 | 00 | O negative | No | <input type="checkbox"/> | | | | End |
| 5/30/2024 14:28 EST | RBC CPO AS1 S03 | W6570807803 | 00 | O negative | Yes | <input checked="" type="checkbox"/> | | | | End |

- Transfusion is now complete, ensure to record post-transfusion vital signs.

Multi-Unit Transfusion Reaction

- Before Ending the Transfusion, select **Yes** from the dropdown menu

| ch | Verify | Volume | Reaction | End Transfusion Date/Time | Release |
|----|-------------------------------------|--------|----------|---------------------------|---------|
| | <input checked="" type="checkbox"/> | 30 | Yes | 5/30/2024 15:39 | End |

If the patient develops a transfusion reaction/adverse event to the administration of blood products, record in Bridge

- Click **End**.
- Check off the patient's signs and symptoms, click **Continue**.

Cyanosis
 (see comments)
 Diarrhea
 Dizziness

Continue **Exit**

Multiple checks can be selected

- Read and follow the **Reaction Instructions**, click **OK**

Reaction Instructions:

STOP THE TRANSFUSION IMMEDIATELY, keep vein open with 0.9% saline

Contact the physician for medical assessment

Request physician orders a transfusion reaction investigation and any other investigation testing (Fever; Blood Cultures; SOB/TRALI; Chest X-ray)

Check and record vital signs every 15 minutes until stable

OK **Exit**

- Complete the reaction checks and ensure to follow policy. Click **Continue**

* Keep vein open with 0.9% saline

* Notify provider immediately

* Check and record vitals every 15 minutes

* Compare patient and unit information

* Provider Orders:

Continue **Exit**

- Call the MRP to communicate clinical findings





TRANSFUSION AND TRANSFUSION REACTION HOSPITAL INFORMATION SYSTEM (HIS)

Releasing Unused Blood Components

If a blood component has been added to the table and scanned in Bridge, but does not need to be transferred, it will need to be removed from patient's chart and returned to Blood Bank.

1. Click **Multi-Unit Transfusion**
2. Click the blue **Trashcan icon** under the **Release** column. Ensure that the blood component unit number being released in Bridge matches the unit number on the blood bag.

| Donor blood type | Crossmatch | Verify | Volume | Reaction | End Transfusion Date/Time | All | Release |
|------------------|------------|-------------------------------------|--------|----------|---------------------------|--------|---|
| D negative | No | <input type="checkbox"/> | | | | Search |  |
| D negative | Yes | <input checked="" type="checkbox"/> | 250 | No | 23/03/24 14:51 | End |  |

3. Return the blood component to Blood Bank **within 1 hour.**