



Inodaya Hospitals - Kakinada

Documentation code:

INH/COP .Doc.No:15

Policy on rational use of Blood and Blood Product

Prepared Date: 11/11/2025

Reference: COP.o8.d.NABH Standards – 6th Edition

Issue date: 11/11/2025

Issue no:1

Review NO:00

Review Date: 10/11/2026

1.0 Purpose: To ensure safe and appropriate use of blood and blood products, minimizing risks and ensuring patient safety.

2.0 Scope This policy applies to all healthcare professionals involved in the transfusion of blood and blood products at Inodaya Hospital.

3.0 . Definitions- Blood Transfusion: Administration of blood or blood products to a patient.

Blood Products: Whole blood, packed red cells, fresh frozen plasma, platelets, cryoprecipitate, etc.

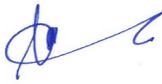
4.0 . Policy Statements- Blood transfusions will be prescribed only when clinically indicated. Patients will be informed about risks and benefits, and consent obtained. - Blood/products will be handled, stored, and administered safely.

5.0 . Procedures

5.1 Patient Consent for Blood Transfusion

- Obtain informed consent from patient/guardian before blood transfusion.
- Explain risks, benefits, and alternatives of transfusion.
- Provide patient information leaflet.
- Document consent in patient's medical record.

Special Considerations:

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|---------------------|--|---|
| Prepared by: | Verified by: <i>G. Lakshmi Lavanya</i> | Approved by:  |
| Dr.Gowtham Krishna | Mrs. Lakshmi Lavanya | Dr.G.Rammohan |
| Medical Director | Chief Executive officer | Managing Director |



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- Emergency situations: If patient is unconscious, obtain consent from next of kin/guardian (if possible).
- Minors: Obtain consent from parent/guardian.
- Refusal: Respect patient's right to refuse; document and inform treating team.

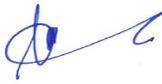
5.2 Safe Procurement and Transportation:

1. Procure blood/products from licensed, accredited blood banks that meet hospital standards.(blood bank name)
2. Validate containers used for transportation have temperature maintained devices.
3. Maintain temperature between 2-6°C for blood and -25°C for FFP and plasma during transportation.
4. Handle products carefully to prevent damage.
5. Verify quantity, product type, and labels on arrival.
6. Check temperature after receiving.
8. Reject and quarantine products if compromised or temperature deviations occur or any damage Compatibility report not evident.
9. Document receipt and verification process.
10. Ensure products are transfused as early as possible.

5.3 Patient Identification Inodaya Hospital ensures accurate patient identification before blood transfusion.

1. Verify patient's identity using two identifiers: name and medical record number (MRN) or date of birth.
2. Use wristband or other identification system.
3. Check patient's identity against blood request form and blood bag label.
4. Confirm patient's identity with patient/guardian (if present).
5. Document identification process in patient's medical record.

Pre-Transfusion Checks:

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1. Verify patient's name, MRN, and blood group.
2. Check blood bag label for compatibility.
3. Ensure patient's consent is documented.

5.4 Verification of Blood Transfusion Orders Inodaya Hospital ensures accurate verification of blood transfusion orders.

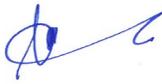
1. Verify physician's order for transfusion, including:
 - Product type (e.g., packed red cells, platelets)
 - Quantity
 - Transfusion rate
 - Special requirements (e.g., irradiated, CMV-negative)
2. Check order for completeness and accuracy.
3. Clarify discrepancies or incomplete information with prescribing physician before transfusion.
4. Document verification process in patient's medical record.
5. Patient's name and MRN match order and blood bag label.
6. Product type and quantity match order.
7. Transfusion rate and special requirements are noted.

5.5 Safe Storage Prior to Transfusion Inodaya Hospital prioritizes timely use of blood products.

- Blood products are stored in designated refrigerators/freezers only if immediate use isn't possible. Most blood products are used immediately upon receipt.
- If stored, maintain temperature between 2-6°C (blood) or -25°C (FFP, plasma).
- Monitor and record temperature regularly.
- Use products as soon as possible after receipt.

5.6 Blood Administration Inodaya Hospital ensures safe blood administration practices.

- Use aseptic technique and personal protective equipment (PPE).
- Verify patient's identity and blood product details before administration.
- Use blood administration set with filter (170-200 micron).
- Administer products according to hospital protocol and physician's orders.

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- Monitor patient's vital signs regularly during transfusion.
- Document transfusion details in patient's medical record.
- Patient's identity and blood product compatibility.
- Blood bag label and product details.
- Transfusion rate and volume.

5.7 Transfusion Monitoring Inodaya Hospital ensures close monitoring of patients during blood transfusion.

- Monitor patient's vital signs:
 - Before transfusion starts
 - 15 minutes after start
 - Regularly thereafter
- Watch for signs of adverse reactions:
 - Fever, chills, rash, itching
 - Shortness of breath, chest pain
 - Hypotension, hypertension
- Document patient's response and any reactions in medical record.

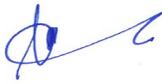
Monitoring Frequency:

1. Vital signs: every 15-30 minutes

2. Patient observation: continuous

5.8 Identification and Documentation of Blood Transfusion Reaction Inodaya Hospital ensures prompt identification and documentation of blood transfusion reactions.

- Recognize signs and symptoms:
 - Fever, chills, rash
 - Shortness of breath, chest pain
 - Hypotension, hypertension

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- Stop transfusion if reaction suspected.
- Notify treating team and blood bank immediately.
- Document reaction details:
 - Patient's symptoms and vital signs
 - Blood product details
 - Management and outcome
- Follow hospital protocol for transfusion reaction management.
 - Patient's symptoms and signs
 - Blood product details (e.g., bag number, product type)
 - Management and outcome
 - Notification of treating team and blood bank

Red Blood Cells (RBCs):

- For symptomatic anemia (e.g., fatigue, dyspnea) or Hb < 7 g/dL
- For acute blood loss with hemodynamic instability
- Target Hb: 7-9 g/dL (avoid over-transfusion)

Platelets:

- For bleeding patients with platelet count < 50,000/ μ L
- For prophylaxis in patients with platelet count < 10,000/ μ L
- For surgical patients with platelet count < 50,000/ μ L

Fresh Frozen Plasma (FFP):

- For coagulopathy (e.g., INR > 1.5, aPTT > 1.5 times normal)
- For massive transfusion (> 1 blood volume in 24 hours)
- For warfarin reversal (with vitamin K)

Cryoprecipitate:

- For fibrinogen deficiency (< 100 mg/dL)
- For bleeding patients with von Willebrand disease or hemophilia A

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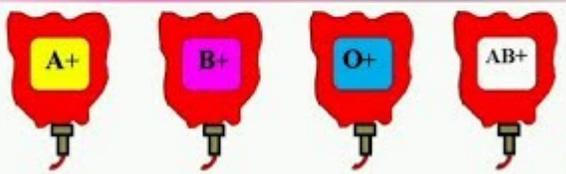
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COLOR CODES FOR BLOOD GROUP



Document Revision History

| DOCUMENT REVISION HISTORY | | |
|---------------------------|---------------|---------------------|
| Version | Date of issue | Reason for Revision |
| Original version - 1 | | |
| Revised version - 2 | | |
| Revised version - 3 | | |
| Revised version - 4 | | |
| Revised version - 5 | | |

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