

# **Guideline Responsibilities and Authorisation**

Department Responsible for Procedure	NICU
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Target Audience	Consultants, Registrars, NNPs, CNSs, RNs

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## **Procedure Review History**

Version	Updated by	Date Updated	Summary of Changes
2	Joyce Mok	September 2015	3 yearly review
3	Joyce Mok	September 2018	3 yearly review
4	Maggie Rainbow	October 2022	3 yearly review

Doc ID:	1647	Version:	04	Issue Date:	16 DEC 2022	Review Date:	16 DEC 2025
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#### 1 Overview

## 1.1 Purpose

To outline guideline for the use of Cryoprecipitate in neonates.

### 1.2 Scope

Te Whatu Ora Waikato medical and nursing staff working in NICU.

## 1.3 Patient / client group

Neonates and infants in NICU.

## 1.4 Exceptions / contraindications

Parental, cultural or religious reasons for declining consent

Note: If parents decline blood transfusion for their baby, they must sign the <u>Medical Directive for patients who refuse blood transfusions (including Jehovah Witnesses)</u> form (G3825HWF)

• Parent information for blood transfusions in children and the Care of Children Act and blood transfusions can be found here (Intranet link)

### 1.5 Indications

• Fibrinogen deficiency

Normal ranges 1.5 – 5g/L

- Massive transfusion protocol Massive Transfusion Plan Protocol
- Can be used in von Willebrand disease, haemophilia A, and specific factor deficiencies when factor concentrate is not available (consider a recombinant product first)

### 2 Clinical management

## 2.1 Guideline

#### Dose

Usually 10 mL/kg

### Route

Intravenous over 30 minutes. Other vascular access devices such as UACs, and central lines may be used only after consultation with NICU consultant

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#### **Filter**

- Blood products are not given through the usual IV filter (i.e. PALL<sup>™</sup> filter). This should be bypassed or removed when administering blood products.
- Spike all blood product bags with an In-Line blood filter (i.e. standard blood giving set).
  This process is important to prevent infusion of any potential blood clots or cellular debris.

#### **ABO**

- Cryoprecipitate may be given without regard to ABO type (provided no ABO haemolysin antibodies are present).
- In presence of ABO haemolysin, Cryoprecipitate should follow the compatibility rules;

Recipient	Donor		
А	A, AB		
В	B, AB		
AB	AB		
0	A, B, AB, O		

<sup>\*</sup>Note: This is different from red cell and platelet compatibilities.

### **Rhesus**

 Cryoprecipitate of any Rh(D) type may be given regardless of the Rh(D) type of the recipient.

#### Consent

- Written consent required. Consent for use of all blood components and blood products form (T1528HWF)
- Verbal consent can be obtained in the absence of a parent/legal guardian, with written consent being obtained at earliest opportunity. Verbal consent must be clearly documented in the clinical notes
- In the event that a parent withholds consent for blood product transfusion, this requires discussion with SMO and transfusion can go ahead, under the "Care of Children Act 2004", with clear documentation in the clinical notes.

### Flush

• Use Sodium chloride 0.9% for flushes

#### Do not

- Do not add medication to cryoprecipitate
- Do not use 5% Dextrose solutions or hypotonic sodium solutions (may cause red cells to haemolyse)

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### Monitoring

- According to NICU nursing and medical procedures for blood transfusion
- For suspected transfusion-related reactions refer to protocol <u>Blood Transfusions to</u> <u>Infants in the Neonatal Intensive Care Unit procedure</u> (1645)

## **Storage**

- Transfuse as soon as possible.
- Transfusions must be completed within four hours of being issued.
- Unspiked blood products can be returned to Blood Bank within 30 minutes of being issued to be returned to storage.
- Never store cryoprecipitate in a fridge.

### 3 Evidence base

#### 3.1 References

- Te Whatu Ora Waikato Blood Resource: How to administer Never store cryoprecipitate in a fridge. - Quick Guide. Retrieved on September 20, 2018 from <a href="https://clinicaldata.nzblood.co.nz/resourcefolder/cryo.php?dhbid=6">https://clinicaldata.nzblood.co.nz/resourcefolder/cryo.php?dhbid=6</a>
- Australian and New Zealand Society of Blood Transfusion & Australian College of Nursing (2018). Guidelines for the administration of blood products. Retrieved on September 19, 2018 from <a href="https://anzsbt.org.au/data/ANZSBT\_Guidelines\_Administration\_Blood\_Products\_3rdEd\_Jan\_2018.pdf">https://anzsbt.org.au/data/ANZSBT\_Guidelines\_Administration\_Blood\_Products\_3rdEd\_Jan\_2018.pdf</a>
- New Zealand Blood Services (2016). Transfusion medicine handbook: A guide to the clinical use of blood components, blood products and blood transfusion procedures in New Zealand, 3<sup>rd</sup> ed. Retrieved on September 20, 2018 from <a href="https://www.nzblood.co.nz/assets/Transfusion-Medicine/PDFs/Transfusion-Medicine-Handbook-2016.pdf">https://www.nzblood.co.nz/assets/Transfusion-Medicine/PDFs/Transfusion-Medicine-Handbook-2016.pdf</a>
- <u>Care of Children Act 2004 section 37</u>
  https://www.legislation.govt.nz/act/public/2004/0090/latest/DLM317465.html

## 3.2 Associated Te Whatu Ora Waikato Documents

- Blood Transfusions to Infants in the Neonatal Intensive Care Unit procedure (1645)
- Te Whatu Ora Waikato Medical Directive for patients who refuse blood transfusions (G3825HWF)
- Parent information for blood transfusion in children (<u>Intranet link</u>)

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