

## Reference Guide

### Cryoprecipitate Dosing

- Cryoprecipitate (Cryo) is transfused as a concentrated source of fibrinogen.
- A standard **adult** dose is 3 – 4 g of fibrinogen (70 kg adult).<sup>1</sup>
- Different size packs of Cryo are available in Australia. See table below.

#### Standard Adult Dose of Cryoprecipitate (Cryo)

<b>Apheresis</b> Large (discontinued size Dec 24, use in 2025 until expiry)	<b>4 packs</b>
<b>Whole Blood or Split Apheresis</b> (new pack size from 2025) These are equivalent packs and can be combined to make a dose	<b>9 - 10 packs*</b>

- The Laboratory will issue the required number of packs when an 'adult dose' is requested (\*10 packs, or 9 packs if an update to the current Australian Guidance is made).
- From early in 2025 (depending on local stocks), only Whole Blood Cryo & Split Apheresis Cryo packs will be available (with equivalent fibrinogen content and volume of 30 – 40 mL).
- In the case of children or neonates, refer to local critical bleeding protocols and/or contact a haematologist or senior transfusion laboratory scientist for advice. The usual starting dose for children is 5 mL/kg<sup>2</sup>, in high-risk patients 10 mL/kg can be considered.

#### Rationale for above Adult dosing table:

- Provides a dose of 3 - 4 g of fibrinogen, consistent with the National critical bleeding guideline<sup>1</sup>

Cryoprecipitate (Cryo)	Volume (mL) mean ±1SD	Fibrinogen (mg per Pack) mean ±1SD
<b>Apheresis</b> Large size <sup>3</sup> <b>Discontinued</b> size (last donations 31/12/24) In use within expiry date/until stock exhausted	60 ± 2	1079 ± 299
<b>^Split apheresis</b> (validation data <sup>4</sup> ) Smaller size due to splitting of apheresis donations from 1/1/25	33 ± 3	395 ± 116
<b>^Whole blood</b> Cryo <sup>3</sup> Existing product, routine use in SA from 2025	37 ± 2	372 ± 114

**^Fibrinogen content per pack & per mL is equivalent, can be used interchangeably to make a dose**

- In SA the predominant Cryo product used has been Apheresis (Large) packs. From 2025 with the change to the Split Apheresis pack, SA will receive this as well as Whole Blood Cryo.
- When reviewing international studies of fibrinogen replacement, ensure that the current fibrinogen content in Australian Cryoprecipitate (see current BCI<sup>3</sup> for updates) is considered when estimating equivalence. Due to differences in manufacturing process between Blood Services internationally, fibrinogen content per 'unit' (pack) and per mL can vary considerably.
- Provides a standard adult dose independent of body weight, which is not always readily available to the hospital blood bank/transfusion laboratory.
- Some adult patients may be prescribed doses outside the above table based on their individual circumstances. Contact a haematologist or senior transfusion laboratory scientist for advice.
- Typically, 1 pack of **Whole Blood** (or **Split Apheresis Cryo**) per 5 – 10 kg body weight, or 1 pack of **Apheresis Cryo** (Large) per 10 – 20 kg body weight would be expected to increase the patient's fibrinogen concentration by 0.5 - 1.0 g/L.<sup>3</sup>

Developed in conjunction with SA Critical Bleeding Advisory Group.

For more information contact your hospital Blood Bank / Transfusion Lab & refer to your local Critical Bleeding Guidelines.

1. National Blood Authority. [Patient blood management guideline for adults with critical bleeding, 2023](#) (accessed Nov 2024)

2. National Blood Authority. [Patient blood management guideline for Neonatal and Paediatrics, 2016](#) (accessed Nov 2024)

3. [Australian Red Cross Lifeblood](#), Blood Component Information (BCI): An extension of blood component labels, 2024 Edition (accessed Nov 2024)

4. Australian Red Cross Lifeblood Validation Summary, AHP communication, 13/11/24.