
Section S: Blood Product Overview – Cryoprecipitate (CRYO)

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DESCRIPTION of PRODUCT

- Collected from volunteer donors by the Canadian Blood Services (CBS).
- Donor is screened and blood is tested for:
 - Hepatitis B Surface Antigen (HBsAg)
 - Syphilis
 - Antibodies to Hepatitis B core antigen (HBcore), Hepatitis C Virus (HCV), Human T-cell Lymphotropic Virus (HTLV-1 and 2), Human Immune Deficiency Virus (HIV-1 and 2)
 - Presence of viral RNA: HIV-1, HCV and West Nile Virus (WNV)
 - Presence of viral DNA: Hepatitis B virus (HBV)
- CRYO is prepared by the CBS, when FFP is thawed at a temperature between 1-6C, and then centrifuged. The insoluble precipitate is separated from the plasma and refrozen.
- CRYO contains at least 150mg fibrinogen as well as 80IU of Factor VIII and von-Willebrand's factor in 5 -15mL of plasma.
- Usual adult dose is 10 units pooled in one bag. Approximately 50 mL of 0.9% Sodium Chloride is added during the pooling of the CRYO.

AVAILABILITY of PRODUCT

- CRYO is generally available at each LHSC/SJHC site. Additional CRYO can be obtained through the CBS.
- ABO and Rh is not considered for CRYO administration, unless it is a pediatric patient.

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STORAGE of PRODUCT

- CRYO is stored frozen (below -18°C) and has an expiry date of 1 year from date of collection.
- Once thawed and pooled, the CRYO must be infused within 4 hours.

CLINICAL INDICATIONS

- Documented cases of low fibrinogen (<1.0g/L) or when the clinical status of the patient is highly suggestive of a low fibrinogen level, and the urgency of the situation does not allow time to wait for fibrinogen level results.
- Von Willebrand's disease ([DDAVP](#) and/or [Humate P](#) are products of choice).
- Should NOT be used for Fibrin Glue or for replacement of Factor VIII in haemophiliac patients.

REQUESTS for CRYO

- Product needs to be thawed and pooled and requires approximately 30 minutes to prepare.
- Adult dose is usually 10 units (or 1 unit per 10kg of body weight).

ADMINISTRATION of PRODUCT

- Administer through a standard blood transfusion set (170 - 260µ filter). Filter should be changed at least every 4-6 hours
- CRYO is only compatible with 0.9% Sodium Chloride.
- Recommended infusion time is 10-30 minutes per dose. Rate should be specified by ordering physician.
- ALL blood products including CRYO must be transfused within 4 hours of issue, do NOT store in unmonitored fridges outside of the BTL.
- Monitor the patient during the transfusion. Patient should be monitored closely for the first 15 minutes.
- Check and record patient's vital signs before infusing, within the first 15 minutes, and at minimum once again at the end of the transfusion.

ADDITIONAL COMMENTS

- Each dose of CRYO should increase the fibrinogen by 0.5g/L.
- Repeat fibrinogen level should be done, before additional CRYO is requested.