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## Section S: Blood Product Overview – Cryosupernatant/Cryopoor Plasma (CPP)

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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)
- Cryoprecipitate is prepared from FFP when FFP is thawed at a temperature between 1-6°C, and then centrifuged. The insoluble precipitate is separated from the plasma and refrozen as Cryoprecipitate. The remaining plasma, Cryosupernatant/CryoPoor Plasma (CPP) is also refrozen
- CPP provides a source of plasma that is known to be deficient in high molecular weight von Willebrand Factor. It also has decreased levels of Factor VIII.

### AVAILABILITY of PRODUCT

- CPP is not stocked at all LHSC/SJHC BTL sites.
- Since CPP contains no or very small amounts of RBCs, Rh on plasma unit is not significant
- CPP must be ABO identical or compatible with patient's ABO group (see [ABO compatibility chart](#))

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Date effective: Jan 2005

Date revised: Mar 2011

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### STORAGE of PRODUCT

- CPP is stored frozen (below -18°C) and has an expiry date of 1 year from date of collection.
- Once thawed, CPP has a shelf life of 24 hours.

### CLINICAL INDICATIONS

- Plasma exchange in patients with Thrombotic Thrombocytopenic Purpura (TTP) or Hemolytic Uremic Syndrome (HUS).
- CPP is preferred over FFP in TTP/HUS since it is deficient in high molecular weight von Willebrand Factor.
- If unable to obtain CPP, FFP may be substituted with consent of ordering physician.

### REQUESTS for CPP

- A group and screen from current hospital admission or current course of treatment is required to issue CPP.
- CPP is stored frozen, and BTL will thaw as requested.
- Thaw time is 30 to 40 minutes.
- Large volumes of CPP are wasted when a plasma exchange is cancelled or aborted, so the BTL will only thaw a maximum of 8 units at a time. Remainder will be thawed as requested.

### ADMINISTRATION of PRODUCT

- Product is administered during plasmapheresis according to the pheresis protocol.
- The large volumes of CPP used during pheresis make the patient more susceptible to allergic reactions, as well as other reactions such as febrile and Transfusion Related Acute Lung Injury (TRALI).
- Patient should be monitored carefully for any adverse effects of transfusion and signs, symptoms and required intervention should be documented.