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Alberta Health Services			Cryosupernatant Plasma, Leukocyte Reduced				
Class: Human Blood Component, Derived from whole blood.			OTHER NAMES: Cryopoor Plasma				
		NTRAVENOUS			OTHER		
ROUTES	DIRECT IV	Intermittent Infusion	Continuous Infusion	SC	ІМ	OTHER	
Acceptable Routes*	table No Yes		No No		No	NA	
* Professionals performing these restricted activities have received authorization from their regulatory college and have the knowledge and skill to perform the skill competently.							
DESCRIPTION OF PRODUCT:							
Cryosupernata	ant, LR (CSP) is	prepared from s	slowly thawed CP	2D FFP that has	been centrifuge	ed to separate	
the insoluble cryoprecipitate from the plasma. The remaining cryosupernatant plasma is then refrozen. The							
average volum	ne of a unit is app	roximately 265r	mL. Cryosuperna	tant does not co	ntain measurab	le amounts of	
Factor VIII or fibrinogen.							
AVAILABILIT	Y:						
 Not a 	II laboratories/trar	nsfusion service	es stock Cryosupe	ernatant plasma.			
 Produ 	uct is stored froze	n, and as a res	ult requires prep t	ime prior to issui	ng.		
INDICATIONS	FOR USE:				(—— —)		
 Plasm 	Plasma exchange in patients with Thrombotic Thrombocytopenic Purpura (TTP) or Hemolytic Uremic						
Syndi	Syndrome (HUS).						
 vvarrarin reversal when factor concentrates are not available, Vit K deficiency 							
CONTRAIND	CATIONS:						
 Do not use for conditions that require von Willebrand Factor supplementation. 							

DOSE:

- The volume transfused will depend on the clinical situation and patient size.
- Standard dosing is 10-15 mL/kg
- Rounding up to nearest full number of units in adults is recommended.

ADMINISTRATION:

Ensure patient consent has been obtained prior to requesting blood component from lab/transfusion service where possible.

Acceptable Route(s):

Peripheral, central, umbilical and PICC lines are acceptable sites for CSPL transfusion

Administration Set:

 Administer through a standard blood transfusion set (170 – 260 micron filter). Filter should be changed every 8 hours.

Compatible Soutions:

CSP is only compatible with 0.9% Sodium Chloride.

Infusion Rate- Adults/Pediatrics/Neonates:

- Rate is specified by ordering physician or authorized prescriber. Infuse slowly in first 15 minutes.
- ALL blood components must be transfused within 4 hours of issue, do NOT store in unmonitored nonblood bank refrigerator.
- Monitor the patient during the transfusion. Patient should be monitored closely for the first 15 minutes (See Patient Monitoring below).

POTENTIAL HAZARDS WITH PARENTERAL ADMINISTRATION:

- Potential adverse events related to a blood transfusion range in severity from minor with no sequelae to life-threatening.
- All adverse events occurring during a transfusion should be evaluated to determine whether or not the transfusion can be safely continued/restarted.
- All adverse events suspected to be related to a transfusion (whether during or after a transfusion) should be reported to your local laboratory/transfusion service.

The following adverse events have been described with transfusion of plasma components:						
Event	Approximate Frequency	Symptoms and Signs	Notes			
Mild allergy	1 in 100	Urticaria, pruritis and/or erythema.	Transfusion can be restarted after assessment and necessary intervention.			
Transfusion associated circulatory overload (TACO)	1 in 700	Dyspnea, orthopnea, cyanosis, tachycardia, raised venous pressure and/or hypertension.	Due to excessive volume or excessively rapid transfusion rates. May be difficult to distinguish from TRALI.			
Transfusion related acute lung injury (TRALI)	1 in 1,200- 5,000	New onset of hypoxemia, new bilateral lung infiltrates on chest X-ray and no evidence of circulatory overload.	Occurs during or within 6 hours of transfusion. May be difficult to distinguish from TACO.			
Isolated hypotensive reaction	Unknown	Hypotension, occasionally accompanied by urticaria, dyspnea and nausea.	Diagnosis of exclusion. May occur more frequently in patients on angiotensin-converting enzyme (ACE) inhibitor.			
Acute hemolytic transfusion reactions	Rare	Shock, chills, fever, dyspnea, chest pain, back pain, headache and/or abnormal bleeding.	May be associated with ABO plasma incompatibility.			
Anaphylaxis Rare Hypotension, upper a respiratory obstruction and vomiting.		Hypotension, upper and/or lower respiratory obstruction, anxiety, nausea and vomiting.	Resuscitation according to local policy. IgA deficient patients who have formed anti- IgA antibodies may experience anaphylactic reactions. However in most cases of anaphylactic reactions, no specific antibodies are found in the patient.			
Transfusion related alloimmune thrombocytopenia	Rare	Abrupt onset of potentially severe thrombocytopenia within hours of transfusion.	Passive transfer of platelet antibodies leading to thrombocytopenia.			
Bacterial contamination	Very rare	Fever, chills, rigors, nausea, vomiting, diarrhea, abdominal and muscle pain, hypotension, hemoglobinemia, and/or disseminated intravascular coagulation.	For evaluation and treatment of a reaction due to suspected bacterial contamination, refer to http://www.phac-aspc. gc.ca/publicat/ccdr-rmtc/08vol34/34sl/34sl- eng.php			
Infectious disease	Varies from rare to very rare	Variable according to infectious disease.	Blood products have been described to transmit viruses other than HIV, HBV, HCV, HTLV I/II and WNV as well as parasites and prions.			
Complications of massive transfusion	Dependent on clinical situation	Complications may include hypothermia, citrate toxicity, acidosis	Appropriate monitoring may abrogate some complications.			

NURSING IMPLICATIONS:

Patient Monitoring:

	Pre Transfusion Vitals?	Initial Monitoring: Stay At Patient Bedside?			Vital Signs During Transfusion		Post Transfusion Monitoring
		First 5 min	First 10 min	First 15 min	After 15 min	Remainder of transfusion	
ADULTS	Yes		NO, but must be immediately available		Yes	q1h	Set of V/S then monitor prn
PEDIATRICS	Yes			Yes	1st hour →q 15 min 2nd and 3rd hours → q30 min then q1h until complete	For 30-60 minutes following	
NEONATES	Yes		YES		Yes	q15 min for duration of transfusion	For 30-60 minutes following

Note: Vital signs/patient monitoring may be conducted more frequently as determined by clinical condition of patient.

Patients receiving blood component transfusions must be observed closely for signs of any unexpected or untoward reactions. These reactions may occur during or after the infusion of blood components or blood products. For follow up instructions to a transfusion reaction, see the following link:

http://www.albertahealthservices.ca/4240.asp

Documentation:

- The transfusion documentation should be double signed to indicate infusion.
- Start and stop time of infusion and assessment of patient tolerability should also be documented in appropriate flow chart or clinical record (electronic or paper) as required.
- Recipients of blood components are to be notified in writing of the transfusion.

STORAGE & STABILITY of PRODUCT:

- CSP is stored frozen at -18 °C for up to a maximum of 12 months from the date of collection.
- Once thawed CSP can be stored at 1-6 °C until the expiry required by local policy and procedure
- Expiry date and time is documented on the component label/tag..

COMMENTS:

 Date Effective:
 Mar. 2013

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 Version
 1.1

 Approved By:
 TM Integration Network

 For questions or comments, please contact trevor.richardson@albertahealthservices.ca

 REFERENCES

 Canadian Blood Services Clinical Guide to Transfusion

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