Lab Dept: Transfusion Services

Test Name: FFP/FP (THAWED PLASMA) TRANSFUSION

General Information

Lab Order Codes: TFFP

Synonyms: Fresh Frozen Plasma; FFP; Frozen Plasma; FP; Fresh Frozen; Thawed

Plasma; TPL

CPT Codes: P9017 – FFP

P9059 - FP

Test Includes: Plasma from a unit of whole blood is separated from the red blood cells

within 8 hours of collection (FFP), or 24 hours of collection (FP), and

frozen rapidly. Volume approximately 200 - 300 mL

Logistics

Test Indications: Refer to <u>Guidelines for the Transfusion of Blood Components.</u>

Useful for the treatment of coagulation factor deficiencies for which specific factor concentrates are not available, and for massive acute

blood loss with massive red cell transfusion.

Lab Testing Sections: Transfusion Service

Phone Numbers: MIN Lab: 612-813-6824

STP Lab: 651-220-6558

Test Availability: Daily, 24 hours

Turnaround Time: 30 - 40 minutes

Standard Dose/Volume:

Patient Weight:	Std Dosage:
<20 kg	10 – 20 mL/kg
20 – 40 kg	1 adult unit
>40 kg	2 adult units

Rate of Infusion: 1-2 mL/minute

Administration: -- AVI pump with 150 – 260 micron blood component administration set.

-- Volume ≤60 mL may be issued by the Transfusion Service in

prefiltered syringes. Use a syringe pump.

Crossmatch: Thawed Plasma must be ABO compatible. Rh need not be considered.

Type and Screen or Crossmatch is not required.

Irradiation: Not required

Order Instructions: Indicate volumes in mL's or number of units needed; time and date

needed; and indication for transfusion.

Expiration: 5 days after thawing if maintained in a closed system, or within 24 hours

if entering the system. Aliquoted Thawed Plasma transfusions must

begin within 4 hours of preparation.

Specimen

Specimen Type: Refer to <u>ABO/Rh</u> if patient testing is required.

Patient Preparation: The patient must have a Medical Records band for checking against the

component Unit Tag and the Transfusion Request Order Form prior to

administration.

Use coagulation studies as a guide to the transfusion of Thawed

plasma.

Sample Rejection: Request may be questioned if coagulation studies are normal.

Interpretive

Limitations: The use of Thawed plasma can cause hypervolemia in a normovolemic

patient. Cryoprecipitate is a better source of fibrinogen.

Methodology: Frozen at -18°C or lower, FFP/FP has a shelf life of 1 year. Thawed at

37°C with agitation in a waterbath, using a plastic overwrap. Thawing requires 15-30 minutes depending on the number of units being thawed FFP/FP is relabeled as Thawed Plasma. Once thawed, store in Blood Bank refrigerator and transfuse within 5 days if maintained in a closed

system, or within 24 hours if the system is entered.

Contraindications:

Do not use Thawed Plasma prophylactically to prevent dilutional coagulopathy in large transfusions.

Do not use Thawed Plasma as a plasma expander; consider crystalloids or albumin as an alternative.

Specific therapies for defined coagulopathies, such as cryoprecipitate or specific factor replacement in hemophilia A or von Willebrand's disease should be given instead of Thawed Plasma when appropriate.

The use of Thawed Plasma will be audited if the INR is <1.4 or the activated partial thromboplastin time is <51 seconds unless there is abnormal bleeding. Additional Information Hazards:

Risks include:

- -- Risk of disease transmission (Hepatitis B, C and HIV)
- -- Plasma volume overload.
- -- Antibody to A antigen (anti-A) and/or B antigen (anti-B).
- -- Anaphylaxis in IgA deficient recipients. Although Thawed Plasma is essentially a cell-free product, it does contain plasma proteins (antigens). Recipients may have fever and mild to severe allergic reactions.

References:

<u>Circular of Information of the Use of human Blood and Blood</u> <u>Components</u> (current edition) AABB and American Red Cross, America's Blood Centers