Fresh Frozen Plasma Coagulation Factors*

Coagulation Factor	Plasma Concentration Required for Hemostasis (U/mL)	Half-Life of Factor	Recovery in Blood (as % of Amount Transfused)
I (fibrinogen)	100-150 mg/dL	3-6 days	50%
II (prothrombin)	0.4	2-5 days	40-80%
V	0.1-0.25	15-36 hours	80%
VII	0.05-0.2	2-7 hours	70-80%
VIII	0.1-0.4	8-12 hours	60-80%
IX (Christmas factor)	0.1-0.4	18-24 hours	40-50%
X	0.1-0.2	1.5-2 days	50%
XI	0.15-0.3	3-4 days	90-100%
XIII (fibrin stabilizing factor)**	0.1-0.5	6-10 days	5-100%
vWF†	0.25-0.5	3-5 hours	75%

* A dose of 10 ml/kg will typically provide sufficient coagulation factors to achieve hemostasis. Factor levels in donor plasma are variable, but can be assumed to be approximately 1 U/ml. Post-transfusion recovery of transfused factors may be less than expected due to extravascular distribution or consumption.

** Factor XIII is also present in cryoprecipitate, along with factors VIII, vWF, fibrinogen, and fibronectin.

† vWF levels vary with ABO type. Type O blood has less amount of circulating vWF; AB has the most.

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