Physiologic Coagulation Cascade

Wound, vessel injury

Tissue factor + Factor VIIa

Factor IX → Factor IXa + Factor VIIIa

Factor X → Factor Xa + Factor Va

Prothrombin → Thrombin → F XIIIa

Fibrinogen → Fibrin → Stable Blood Clot

Key: solid arrows indicate activation of a coagulation factor by the factor above it in the cascade, dotted arrows indicate activation of factors V, VIII, XI and XIII by thrombin.

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