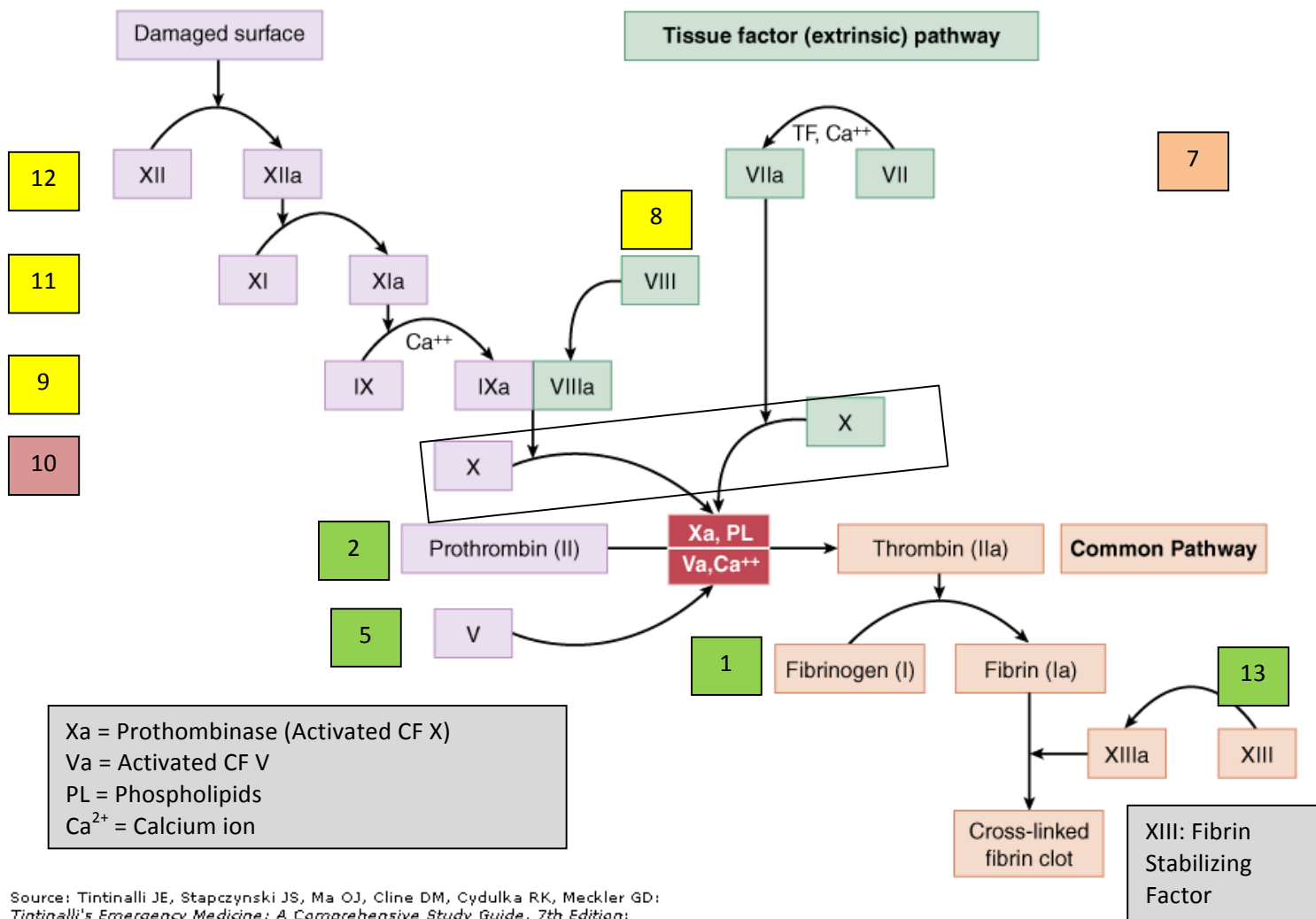


Contact activation (intrinsic) pathway

Tissue factor (extrinsic) pathway



Source: Tintinalli JE, Stapczynski JS, Ma OJ, Cline DM, Cydulka RK, Meckler GD: *Tintinalli's Emergency Medicine: A Comprehensive Study Guide, 7th Edition*; <http://www.accessmedicine.com>; Copyright © The McGraw-Hill Companies, Inc. All rights reserved.

CLOTTING (COAGULATION) FACTORS

Number	Names	Source	Pathways of Activation
I	Fibrinogen	Liver	Common
II	Prothrombin	Liver	Common
III	Tissue Factor (Thromboplastin)	Damaged tissue and activated platelets	Extrinsic
IV	Calcium Ions (Ca ²⁺)	Diet, bones, and platelets	All
V	Proaccelerin, labile factor, or accelerator Globulin (AcG)	Liver and platelets	Extrinsic and Intrinsic
VII	Serum prothrombin conversion accelerator (SPCA), stable factor, or proconvertin	Liver	Extrinsic
VIII	Antihemophilic factor (AHF), antihemophilic factor A, or antihemophilic globulin (AHG)	Liver	Intrinsic
IX	Christmas Factor, plasma thromboplastin component (PTC) or antihemophilic factor B	Liver	Intrinsic
X	Stuart factor, prower factor or thrombokinese	Liver	Extrinsic and Intrinsic
XI	Plasma thromboplastin antecedent (PTA) or antihemophilic factor C	Liver	Intrinsic
XII	Hageman factor, glass factor, contact factor or antihemophilic factor D	Liver	Intrinsic
XIII	Fibrin Stabilizing Factor	Liver and platelets	Common
Protein S	None		
Protein C	Xa inhibitor		