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## Hemostasis

Harriet S. Meyer

Print Publication Year: 2007 Published Online: 2009 Publisher: Oxford University Press
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Item type: section

Thrombosis may be regarded as an accident ofnature that has not had time to adapt through thelengthy process of evolution to the advances ofmodern medicine, which allow patients to survivethe hemostatic challenge of major surgery andtrauma but leave them vulnerable to venousthrombosis. R. W. Colman et al(p3) …each milliliter of blood contains enough clottingmaterial to clot all the fibrinogen in the body in 10 to15 s. R. I. Handin(p340)Hemostasis consists of platelet plug formation (primary hemostasis) and blood coagulation (secondary hemostasis, coagulation, clotting). Hemostasis and its control involve complex interactions of more than 50 procoagulants and anticoagulants. Description of hemostatic processes depends

## Primary Hemostasis

Harriet S. Meyer

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Note the typography of the following terms, which are found in descriptions of platelet hemostasis (use parenthetical abbreviated terms in accordance with , Abbreviations, Clinical, Technical, and Other Common Terms):See also , Blood Groups, Platelet Antigens, and Granulocyte Antigens, Platelet-Specific Antigens.

## Endothelial Factors

Harriet S. Meyer

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Structures and products of endothelial cells the cells lining blood vessels maintain blood fluidity by preventing excessive clotting and prevent bleeding by promoting clotting. The following endothelium-associated terms are presented as a guide to style.Three glycoprotein complexes are synonymous with 3 integrins and take part in hemostasis:


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## Secondary Hemostasis

Harriet S. Meyer

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Blood coagulation is the phase of clot formation dependent on plasma coagulation factors (also known as clotting factors).The laboratory evaluation of plasma factor-dependent coagulation has been divided into 2 pathways (systems, phases). The following terms and synonyms are used:An international system of nomenclature, formulated from 1954 through 1963,, clarified clotting factor terminology and, as Biggs observed, scientific findings in coagulation, when factors identified and named independently by different groups were shown to be the same. A major update to the standard nomenclature was published by Blomback et al, in the early 1990s.A number of clotting factors were named for the

## Inhibition of Coagulation and Fibrinolysis

Harriet S. Meyer

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The following sample terms are included for reference. Expand at first mention in accordance with , Abbreviations, Clinical, Technical, and Other Common Terms.Note: Protein C was named for an investigator’s chromatographic fraction C in which it was discovered. The S in protein S refers to Seattle, where it was discovered. Protein S is not the same as S protein; see also , Complement.The following sample terms represent entities that take part in fibrinolysis or its inhibition. Expand at first mention in accordance with , Abbreviations, Clinical, Technical, and Other Common Terms:Two among several tests of coagulation are the prothrombin time


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