

The Coagulation Process and Coagulation Disorder

Image of a baby on screen, followed by an illustration of blood clotting described below.

Narrator: In a person with hemophilia, the first steps of hemostasis function normally. An immature platelet plug is formed and the bleeding stops. However, if one of the plasma clotting proteins is decreased or absent, the process of forming a mature fibrin clot is disrupted. The platelet plug breaks up, the bleeding resumes, and the process begins again leading to a repeated cycle of bleeding, clotting and rebleeding because the clot is unstable.