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Bleeding Disorders


Also called: Clotting disorders

Normally, if you get hurt, your body forms a blood clot [<https://medlineplus.gov/bloodclots.html>] to stop the bleeding [<https://medlineplus.gov/bleeding.html>]. For blood to clot, your body needs cells called platelets and proteins known as clotting factors. If you have a bleeding disorder, you either do not have enough platelets [<https://medlineplus.gov/plateletdisorders.html>] or clotting factors or they don't work the way they should.

Bleeding disorders can be the result of other diseases, such as severe liver disease [<https://medlineplus.gov/liverdiseases.html>] or a lack of vitamin K [<https://medlineplus.gov/vitamink.html>]. They can also be inherited. Hemophilia [<https://medlineplus.gov/hemophilia.html>] is an inherited bleeding disorder. Bleeding disorders can also be a side effect of medicines such as blood thinners [<https://medlineplus.gov/bloodthinners.html>].

Various blood tests can check for a bleeding disorder. You will also have a physical exam and history. Treatments depend on the cause. They may include medicines and transfusions of blood [<https://medlineplus.gov/bloodtransfusionanddonation.html>], platelets, or clotting factor.



Start Here

- Bruising and Bleeding [<https://www.merckmanuals.com/home/blood-disorders/blood-clotting-process/bruising-and-bleeding>] (Merck & Co., Inc.)
Also in Spanish [<https://www.merckmanuals.com/es-us/hogar/trastornos-de-la-sangre/coagulaci%C3%B3n-de-la-sangre/hematomas-y-sangrado>]
- What Are Blood Clotting Disorders? [<https://www.nhlbi.nih.gov/health/clotting-disorders>]  (National Heart, Lung, and Blood Institute)

Symptoms

- Signs and Symptoms of Bleeding Disorders in Women [<https://www.cdc.gov/female-blood-disorders/signs-symptoms/>] (Centers for Disease Control and Prevention)
Also in Spanish [<https://www.cdc.gov/female-blood-disorders/es/signs-symptoms/signos-y-sintomas-de-los-trastornos-hemorragicos-en-las-mujeres.html>]

Diagnosis and Tests

- Blood Test: Factor VIII Activity [<https://kidshealth.org/en/parents/test-factor8.html>] (Nemours Foundation)
Also in Spanish [<https://kidshealth.org/es/parents/test-factor8.html>]
- Blood Test: Prothrombin Time (PT) [<https://kidshealth.org/en/parents/test-pt.html>] (Nemours Foundation)
Also in Spanish [<https://kidshealth.org/es/parents/test-pt.html>]
- Coagulation Factor Tests [<https://medlineplus.gov/lab-tests/coagulation-factor-tests/>]  (National Library of Medicine)
Also in Spanish [<https://medlineplus.gov/spanish/pruebas-de-laboratorio/pruebas-de-los-factores-de-la-coagulacion/>]
- D-Dimer Test [<https://medlineplus.gov/lab-tests/d-dimer-test/>]  (National Library of Medicine)
Also in Spanish [<https://medlineplus.gov/spanish/pruebas-de-laboratorio/prueba-del-dimero-d/>]

MPV Blood Test [<https://medlineplus.gov/lab-tests/mpv-blood-test/>]  (National Library of Medicine)

Also in Spanish [<https://medlineplus.gov/spanish/pruebas-de-laboratorio/prueba-de-sangre-de-vpm/>]

- **Prothrombin Time Test and INR (PT/INR)** [<https://medlineplus.gov/lab-tests/prothrombin-time-test-and-inr-ptinr/>]

 (National Library of Medicine)

Also in Spanish [<https://medlineplus.gov/spanish/pruebas-de-laboratorio/prueba-de-tiempo-de-protrombina-e-inr-tpinr/>]

Treatments and Therapies

- **Blood Thinners: MedlinePlus Health Topic** [<https://medlineplus.gov/bloodthinners.html>]  (National Library of Medicine)

Also in Spanish [<https://medlineplus.gov/spanish/bloodthinners.html>]

Living With

- **Treatments for Blood Disorders** [<https://www.nhlbi.nih.gov/health/blood-bone-marrow-treatments>]

 (National Heart, Lung, and Blood Institute)

Also in Spanish [<https://www.nhlbi.nih.gov/es/salud/sangre-y-medula-osea-tratamientos>]

Specifics

- **About Vitamin K Deficiency Bleeding** [<https://www.cdc.gov/vitamin-k-deficiency/about/>]

(Centers for Disease Control and Prevention)

Also in Spanish [<https://www.cdc.gov/vitamin-k-deficiency/es/about/acerca-de-los-sangrados-por-deficiencia-de-vitamina-k.html>]

- **Disseminated Intravascular Coagulation (DIC)** [<https://www.nhlbi.nih.gov/health/disseminated-intravascular-coagulation>]

 (National Heart, Lung, and Blood Institute)

- **Rare Clotting Factor Deficiencies** [<https://elearning.wfh.org/elearning-centres/rare-clotting-factor-deficiencies/>]

(World Federation of Hemophilia)

Also in Spanish [<https://elearning.wfh.org/es/centros-de-aprendizaje/deficiencias-poco-comunes-de-factores-de-la-coagulacion/>]

Genetics

- **Bernard-Soulier syndrome: MedlinePlus Genetics** [<https://medlineplus.gov/genetics/condition/bernard-soulier-syndrome>]

 (National Library of Medicine)

- **Complete plasminogen activator inhibitor 1 deficiency: MedlinePlus Genetics**

[<https://medlineplus.gov/genetics/condition/complete-plasminogen-activator-inhibitor-1-deficiency>]

 (National Library of Medicine)

- **Factor V deficiency: MedlinePlus Genetics** [<https://medlineplus.gov/genetics/condition/factor-v-deficiency>]

 (National Library of Medicine)

- **Factor VII deficiency: MedlinePlus Genetics** [<https://medlineplus.gov/genetics/condition/factor-vii-deficiency>]

 (National Library of Medicine)

- **Factor X deficiency: MedlinePlus Genetics** [<https://medlineplus.gov/genetics/condition/factor-x-deficiency>]

 (National Library of Medicine)

- **Factor XI deficiency: MedlinePlus Genetics** [<https://medlineplus.gov/genetics/condition/factor-xi-deficiency>]

 (National Library of Medicine)

- **Factor XIII deficiency: MedlinePlus Genetics** [<https://medlineplus.gov/genetics/condition/factor-xiii-deficiency>]

 (National Library of Medicine)

- **Glycoprotein VI deficiency: MedlinePlus Genetics** [<https://medlineplus.gov/genetics/condition/glycoprotein-vi-deficiency>]

 (National Library of Medicine)

- **Prekallikrein deficiency: MedlinePlus Genetics** [<https://medlineplus.gov/genetics/condition/prekallikrein-deficiency>]


 (National Library of Medicine)

- **Prothrombin deficiency: MedlinePlus Genetics** [<https://medlineplus.gov/genetics/condition/prothrombin-deficiency>]

 (National Library of Medicine)


- **Stormorken syndrome: MedlinePlus Genetics** [<https://medlineplus.gov/genetics/condition/stormorken-syndrome>]

 (National Library of Medicine)

Thrombocytopenia-absent radius syndrome: MedlinePlus Genetics [https://medlineplus.gov/genetics/condition/thrombocytopenia-absent-radius-syndrome]  (National Library of Medicine)

- Wiskott-Aldrich syndrome: MedlinePlus Genetics [https://medlineplus.gov/genetics/condition/wiskott-aldrich-syndrome]  (National Library of Medicine)

Videos and Tutorials

- Blood clotting [https://medlineplus.gov/ency/anatomyvideos/000011.htm]  (Medical Encyclopedia)
Also in Spanish [https://medlineplus.gov/spanish/ency/anatomyvideos/000011.htm]

Clinical Trials


- ClinicalTrials.gov: Blood Coagulation Disorders [https://clinicaltrials.gov/search?cond=%22Blood+Coagulation+Disorders%22&aggFilters=status:not%20rec]  (National Institutes of Health)

Journal Articles

References and abstracts from MEDLINE/PubMed (National Library of Medicine)

- Article: Predicting postoperative trauma-induced coagulopathy in patients with severe injuries by machine... [https://www.ncbi.nlm.nih.gov/pubmed/40715561]
- Article: Innovative strategies in coagulation management for cardiothoracic surgery: a narrative review... [https://www.ncbi.nlm.nih.gov/pubmed/40671109]
- Article: Roles of lactate and base deficit in predicting traumatic coagulopathy. [https://www.ncbi.nlm.nih.gov/pubmed/40644352]
- Bleeding Disorders -- see more articles [https://pubmed.ncbi.nlm.nih.gov/?term=%22Blood+Coagulation+Disorders%22%5Bmajr%3Anoexp%5D+AND+humans%5Bmh%5D+AND+english%5Bla%5D+AND+%22last+1+Year%22+%5Bedat%5D+NOT+%28letter%5Bpt%5D+OR+case+reports%5Bpt%5D+OR+editorial%5Bpt%5D+OR+comment%5Bpt%5D%29+AND+free+full+text%5Bsb%5D+]

Find an Expert

- Centers for Disease Control and Prevention [https://www.cdc.gov/]
Also in Spanish [https://www.cdc.gov/spanish/]
- Find a Hematologist [https://www.hematology.org/education/patients/find-a-hematologist] (American Society of Hematology)
- National Heart, Lung, and Blood Institute [https://www.nhlbi.nih.gov/] 
- Where to Donate Blood [https://www.aabb.org/for-donors-patients/give-blood]
(Association for the Advancement of Blood & Biotherapies)

Children

- Blood (For Parents) [https://kidshealth.org/en/parents/blood.html] (Nemours Foundation)
Also in Spanish [https://kidshealth.org/es/parents/blood.html]

Teenagers

- Blood Transfusions (For Teens) [https://kidshealth.org/en/teens/transfusions.html]  (Nemours Foundation)
Also in Spanish [https://kidshealth.org/es/teens/transfusions.html]

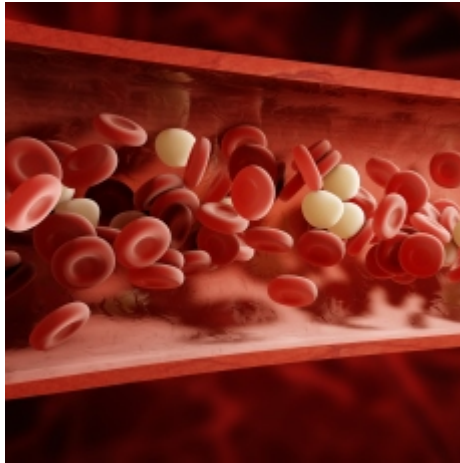
Women

- About Bleeding Disorders in Women [https://www.cdc.gov/female-blood-disorders/about/]
(Centers for Disease Control and Prevention)
Also in Spanish [https://www.cdc.gov/female-blood-disorders/es/about/acerca-de-los-trastornos-hemorragicos-en-las-mujeres.html]
- Bleeding Disorders [https://womenshealth.gov/a-z-topics/bleeding-disorders]
(Department of Health and Human Services, Office on Women's Health)

Also in Spanish [<https://espanol.womenshealth.gov/a-z-topics/bleeding-disorders>]

Patient Handouts

- **Bleeding disorders** [<https://medlineplus.gov/ency/article/001304.htm>] (Medical Encyclopedia)
Also in Spanish [<https://medlineplus.gov/spanish/ency/article/001304.htm>]
- **Bleeding time** [<https://medlineplus.gov/ency/article/003656.htm>] (Medical Encyclopedia)
Also in Spanish [<https://medlineplus.gov/spanish/ency/article/003656.htm>]
- **Disseminated intravascular coagulation (DIC)** [<https://medlineplus.gov/ency/article/000573.htm>] (Medical Encyclopedia)
Also in Spanish [<https://medlineplus.gov/spanish/ency/article/000573.htm>]
- **Partial thromboplastin time (PTT)** [<https://medlineplus.gov/ency/article/003653.htm>] (Medical Encyclopedia)
Also in Spanish [<https://medlineplus.gov/spanish/ency/article/003653.htm>]
- **Prothrombin time (PT)** [<https://medlineplus.gov/ency/article/003652.htm>] (Medical Encyclopedia)
Also in Spanish [<https://medlineplus.gov/spanish/ency/article/003652.htm>]



MEDICAL ENCYCLOPEDIA

Bleeding disorders [<https://medlineplus.gov/ency/article/001304.htm>]

Bleeding into the skin [<https://medlineplus.gov/ency/article/003235.htm>]

Bleeding time [<https://medlineplus.gov/ency/article/003656.htm>]

Blood clotting [<https://medlineplus.gov/ency/anatomyvideos/000011.htm>]

Congenital fibrinogen deficiency [<https://medlineplus.gov/ency/article/001313.htm>]

Disseminated intravascular coagulation (DIC) [<https://medlineplus.gov/ency/article/000573.htm>]

Factor II (prothrombin) assay [<https://medlineplus.gov/ency/article/003674.htm>]

Factor V assay [<https://medlineplus.gov/ency/article/003675.htm>]

Factor V deficiency [<https://medlineplus.gov/ency/article/000550.htm>]

Factor VII assay [<https://medlineplus.gov/ency/article/003676.htm>]

Factor VII deficiency [<https://medlineplus.gov/ency/article/000548.htm>]

Factor X assay [<https://medlineplus.gov/ency/article/003680.htm>]

Factor X deficiency [<https://medlineplus.gov/ency/article/000553.htm>]

Factor XII (Hageman factor) deficiency [<https://medlineplus.gov/ency/article/000545.htm>]

Factor XII assay [<https://medlineplus.gov/ency/article/003681.htm>]

Fibrin degradation products blood test [<https://medlineplus.gov/ency/article/003655.htm>]

Fibrinogen blood test [<https://medlineplus.gov/ency/article/003650.htm>]

Fibrinolysis - primary or secondary [<https://medlineplus.gov/ency/article/000577.htm>]

Fibrinopeptide A blood test [<https://medlineplus.gov/ency/article/003373.htm>]

Hemoglobinuria test [<https://medlineplus.gov/ency/article/003363.htm>]

Hereditary hemorrhagic telangiectasia [<https://medlineplus.gov/ency/article/000837.htm>]

Partial thromboplastin time (PTT) [<https://medlineplus.gov/ency/article/003653.htm>]

Protein electrophoresis - serum [<https://medlineplus.gov/ency/article/003540.htm>]

Prothrombin deficiency [<https://medlineplus.gov/ency/article/000549.htm>]

Prothrombin time (PT) [<https://medlineplus.gov/ency/article/003652.htm>]

Vitamin K deficiency bleeding of the newborn [<https://medlineplus.gov/ency/article/007320.htm>]

Related Health Topics

Bleeding [<https://medlineplus.gov/bleeding.html>]

Blood [<https://medlineplus.gov/blood.html>]

Blood Clots [<https://medlineplus.gov/bloodclots.html>]

Blood Thinners [<https://medlineplus.gov/bloodthinners.html>]

Hemophilia [<https://medlineplus.gov/hemophilia.html>]

National Institutes of Health

The primary NIH organization for research on *Bleeding Disorders* is the National Heart, Lung, and Blood Institute [<http://www.nhlbi.nih.gov/>]

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