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Bleeding disorders

Bleeding disorders are a group of conditions in which there is a problem with the body's blood clotting process. These disorders can lead to heavy and prolonged bleeding after an injury or surgery. Bleeding can also begin on its own and may be difficult to stop.

Specific bleeding disorders include:

- Acquired platelet function defects
- Congenital platelet function defects
- Disseminated intravascular coagulation (DIC)
- Prothrombin deficiency
- Factor V deficiency
- Factor VII deficiency
- Factor X deficiency
- Factor XI deficiency (hemophilia C)
- Glanzmann disease
- Hemophilia A
- Hemophilia B
- Idiopathic thrombocytopenic purpura (ITP)
- Von Willebrand disease (types I, II, and III)

Causes



Watch this video about:
Blood clotting

Normal blood clotting involves blood particles, called platelets, and as many as 20 different plasma proteins that layer over the platelets. These proteins are known as blood clotting or coagulation factors. These factors interact with other chemicals to form a substance called fibrin that stops bleeding.

Problems can occur when platelets are low in number or do not work properly or when certain coagulation factors are low or missing. Bleeding problems can range from mild to severe.

Some bleeding disorders are present at birth and are passed down through families (inherited). Others develop from:

- Illnesses, such as vitamin K deficiency or severe liver disease
- Treatments, such as the use of medicines to stop blood clots (anticoagulants) or the long-term use of antibiotics

Bleeding disorders can also result from a problem with the number or function of platelets. These disorders can also be either inherited or develop later (acquired). The side effects of certain medicines can lead to the acquired forms.

Symptoms

Symptoms may include any of the following:

- Bleeding into joints or muscles
- Bruising easily
- Heavy bleeding
- Heavy menstrual bleeding
- Nosebleeds that do not stop easily
- Excessive bleeding with surgical procedures
- Umbilical cord bleeding after birth

The problems that occur depend on the specific bleeding disorder, and how severe it is.

Exams and Tests

Tests that may be done include:

- Complete blood count (CBC) to check the number of platelets
- Partial thromboplastin time (PTT)
- Platelet aggregation test
- Prothrombin time (PT)
- Thrombin time
- Measurement of levels of the different clotting factors

Treatment

Treatment depends on the type of disorder. It may include:

- Clotting factor replacement
- Fresh frozen plasma transfusion
- Platelet transfusion

- Other treatments

Support Groups

More information and support for people with bleeding disorders and their families can be found at:

- National Bleeding Disorders Foundation -- www.bleeding.org/bleeding-disorders-a-z/types/other-factor-deficiencies [<https://www.bleeding.org/bleeding-disorders-a-z/types/other-factor-deficiencies>]
- Victory for Women. National Bleeding Disorders Foundation -- www.victoryforwomen.org/ [<https://www.victoryforwomen.org/>]

Outlook (Prognosis)

The outcome depends on the disorder. Most primary bleeding disorders can be managed. When the disorder is due to diseases, such as DIC, the outcome will depend on how well the underlying disease can be treated.

Possible Complications

Complications may include:

- Bleeding in the brain
- Severe bleeding (usually from the gastrointestinal tract or injuries)

Other complications can occur, depending on the disorder.

When to Contact a Medical Professional

Contact your health care provider if you notice any unusual or severe bleeding.

Prevention

Prevention depends on the specific disorder.

Alternative Names

Coagulopathy

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