HEMOPHILIA B
OR
Christmas Disease
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Hemophilia comes from the Greek word meaning αίμα “blood” and φιλία “love”. It is also called the “Christmas Disease” and affects the whole body by not letting the Factor IX function properly.
Difference between A & B

- Different clotting factors are involved in the two distinct disease types.
- Hemophilia A: malfunction of factor VIII (more common)
- Hemophilia B: malfunction of factor IX (less common)
Several clues that you have Hemophilia

- Blood in the urine
- Large and deep bruises
- Unexplained extreme bleeding
- Constant nose bleeding
- Pain in the joints
What exactly happens to the body?

When the person walks he/she would get bruises, mouth bleeding, joint and muscle bleeding.

Usually when you bleed your blood cells join together, clot to heal the wound. Hemophilia will prevent the process of clotting blood cells.
Is it a mutation? A genetic tendency triggered by other factors?

Yes, it is a permanent mutation on many different genes. It is inherited on the X chromosome, but can also be developed, in women, after pregnancy.
What happens in the body to cause Hemophilia?

Women are carrier of hemophilia but rarely to get it, because it is a sex-linked recessive disorder carried on the X chromosome. That means, that it is usually received before birth.
How is the disorder diagnosed?

Hemophilia is tested with blood samples. Doctors also need to know if your family ever experienced a case of hemophilia.
Genetic Counseling

• Parents often times visit professional genetic counselors if it has been proven that their child will be a victim of hemophilia.
• The counselors usually discuss how this will affect the child’s life and of course, their own lives.
How common is it?

Hemophilia B occurs in 1 in 20,000 males worldwide.*

* Females are very unlikely to receive it therefore only male statistics and listed
How is the disorder treated?

- The most common therapy is called “Replacement Therapy”.

- That means that the blood clotting factors are replaced in the body, factors VIII and IX are injected into the blood. It is used on both Hemophilia type A & B.
How is the disease inherited?

As already mentioned, it is sex-linked, meaning it only exists on the X chromosome. Men are more likely to have it than women since they only have 1 X chromosome. It is very rare for a woman to receive it since she usually is a carrier.
Famous People who had Hemophilia

Abraham Lincoln
Mother Teresa
Genghis Khan
Bibliography


https://www.hemophilia.org/Bleeding-Disorders/Types-of-Bleeding-Disorders/Hemophilia-B

Thank You!!