# **UNDERSTANDING HEMOPHILIA A**

Hemophilia A is typically an X-linked, inherited bleeding disorder caused by an insufficient or nonfunctioning coagulation protein, factor VIII. It is caused by mutations in the F8 clotting factor gene.

HEMOPHILIA ARISES SPONTANEOUSLY
— WITHOUT DIRECT FAMILY HISTORY —
IN 1 IN 3 CASES.



### INCIDENCE/PREVALENCE:

Hemophilia A is the most common type of hemophilia disorder.

~**1 N** 4,000–10,000

HEMOPHILIA A PRESENT
IN MALE BIRTHS



80-85% OF TOTAL HEMOPHILIA POPULATION



GLOBAL POPULATION
LIVING WITH HEMOPHILIA A

NUMBERS ARE BASED ON A META-ANALYSIS OF NATIONAL REGISTRIES

### SYMPTOMS AND PRIMARY TISSUES/ORGANS AFFECTED

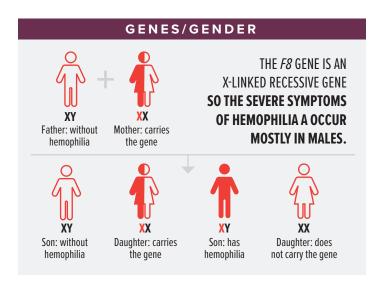
Depending on severity, Hemophilia A can cause prolonged or spontaneous bleeding especially into the muscles and joints or internal organs.

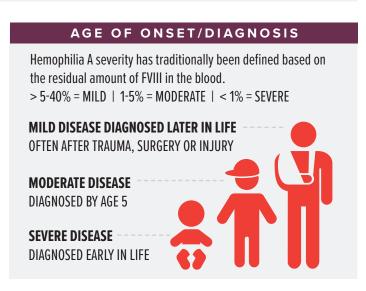
Although any bleed can be serious, the severity and frequency depends on the baseline level of factor VIII protein present. In patients with severe disease, excessive bleeding can occur without a triggering injury. Untreated serious bleeds can lead to long-term irreversible damage or even death.



MUSCLES

JOINTS MUSC





### HEMOPHILIA A IN HISTORY

1803 ¶
1947 ¶
1984 ¶

A PHILADELPHIA DOCTOR
IDENTIFIES AN INHERITED BLEEDING
DISORDER PRIMARILY AFFECTING MEN

FIRST LABORATORY DISTINCTION BETWEEN HEMOPHILIA A AND B

THE **F8** GENE WAS FIRST CLONED

# REPLACEMENT OF CLOTTING FACTOR THROUGH REGULAR INFUSIONS. RECOMBINANT FACTOR CONCENTRATES

## INHIBITORS: COMPLICATIONS WITH CURRENT STANDARD OF CARE

Some people with Hemophilia A develop inhibitors, proteins in the blood that inactivate infused clotting factor, so bleeding episodes continue even with treatment.

~33%

OF PEOPLE WITH
SEVERE HEMOPHILIA A
DEVELOP INHIBITORS

ADVANCE YOUR KNOWLEDGE ABOUT GENE THERAPY. BE INFORMED. FEEL EMPOWERED.

FOR INFORMATION ABOUT GENE THERAPY RESEARCH FOR HEMOPHILIA Check out www.hemophiliaforward.com



