# HEREDITARY ANGIOEDEMA (HAE)

# HAE AFFECTS

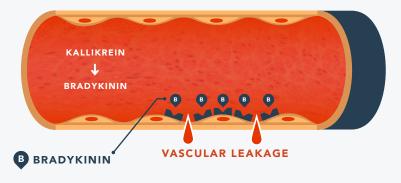
1 in 50,000 people worldwide

6,000 people in the U.S.

# WHAT CAUSES HAE?

HAE is caused by mutations in a gene that codes for a key regulator of a pathway that influences blood vessel permeability. These mutations lead to too much of a protein called bradykinin, which drives excessive vascular leakage.

#### INSIDE THE BLOOD VESSEL / CAPILLARY



# **SYMPTOMS MAY INCLUDE:**



SWELLING IN EXTREMITIES



STOMACH AND GASTROINTESTINAL TRACT SWELLING



THROAT SWELLING

