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# Plain language summary of 4-year efficacy and safety data in the GENEr8-1 trial of valoctocogene roxaparvovec, a gene therapy for severe hemophilia A

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## What is hemophilia A?

Hemophilia A is an inherited disorder that causes people to bleed easily because they have lower-than-normal levels of FVIII (factor VIII; "factor eight"), a blood-clotting protein



circulates throughout the body

Valoctocogene

roxaparvovec

## What is the GENEr8-1 study?

GENEr8-1 is a phase 3 clinical trial that is testing the efficacy and safety of a single dose of valoctocogene roxaparvovec

### What were the goals of the study?





### All participants were

- Males with severe hemophilia A
- Age 18 years or older
- Previously treated with exogenous FVIII prophylaxis for at least 1 year before joining

### Patients could not join the study if they had

- Liver or kidney problems
- Antibodies to the vector
- FVIII inhibitors

## Who participated in the study?



4 years after the gene therapy was given



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- To see how well valoctocogene roxaparvovec prevents bleeding
- How many bleeds participants experienced per year that needed to be treated with FVIII
- How many total bleeds participants experienced per year How much FVIII the participants made

### To determine how safe valoctocogene roxaparvovec is

- How many *adverse events* occurred
- How many ALT elevations occurred, a type of adverse event that suggests liver inflammation

### Who could participate in the study?





## What were the efficacy results?



The 112 joined from th observationa study had 83%

receiving valoctocogene roxaparvovec



year 4



77%





## What were the safety results?