# Health-related quality-of-life outcomes 4 years after treatment with valoctocogene roxaparvovec

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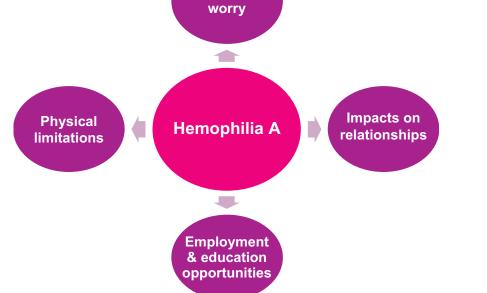
# Introduction

# Hemophilia A

- People with hemophilia A lack the blood clotting protein factor VIII (FVIII) because the gene that makes it is faulty
- Low FVIII levels can result in excessive bleeding or bleeding with no apparent cause
- Current treatments are regular injections with clotting FVIII concentrate or non-factor therapies (emicizumab)
- Hemophilia A can negatively affect mental health, relationships, employment, and overall well-being<sup>1,2</sup>

# Valoctocogene roxaparvovec and HRQOL

# Hemophilia A negatively affects health-related quality of life (HRQOL)



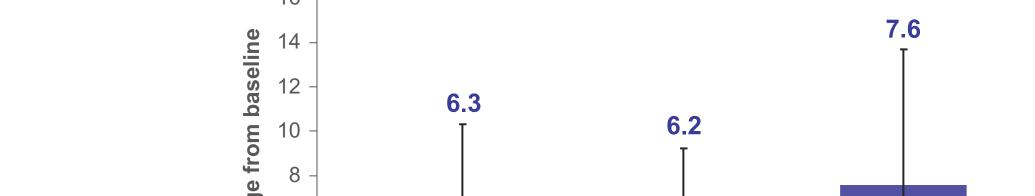
Potential to reduce disease burden of hemophilia A<sup>6</sup>

Regular infusions are

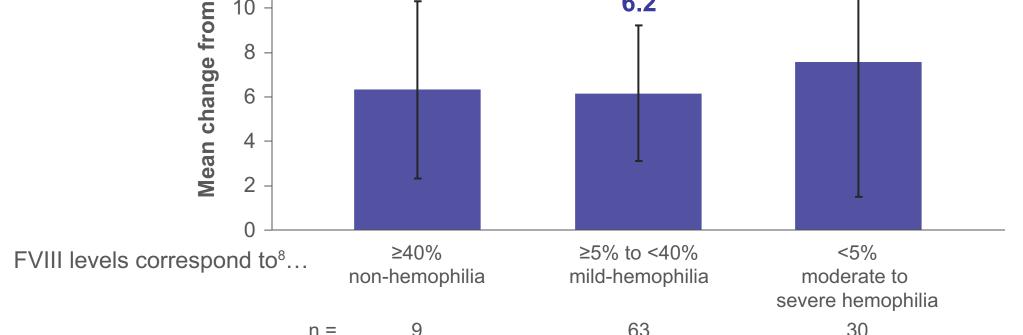
unnecessary

Protection

from bleeds



**HRQOL** improvements were partly independent of FVIII activity



Improvement in Haemo-QOL-A Total Score at the end of year 4 was deemed clinically meaningful for participants with FVIII levels <5%<sup>7</sup>

**PW-07-13** 

- Valoctocogene roxaparvovec is a gene therapy for severe hemophilia A that delivers functional genetic instructions for producing FVIII
- Valoctocogene roxaparvovec provides protection from bleeding with a single infusion<sup>3</sup>, with the potential to reduce the burden and consequences of living with hemophilia A
- GENEr8-1 is a phase 3 trial to test how safe valoctocogene roxaparvovec treatment is and how well it protects against bleeding<sup>3–5</sup>

# **Methods**

# Study design

# Eligibility

- Adult men with severe hemophilia A (FVIII ≤1 IU/dL, or 1% of healthy levels)
- Change from baseline
  HRQOL

Endpoints\*

ມີມີມີ Less burden on loved ones and

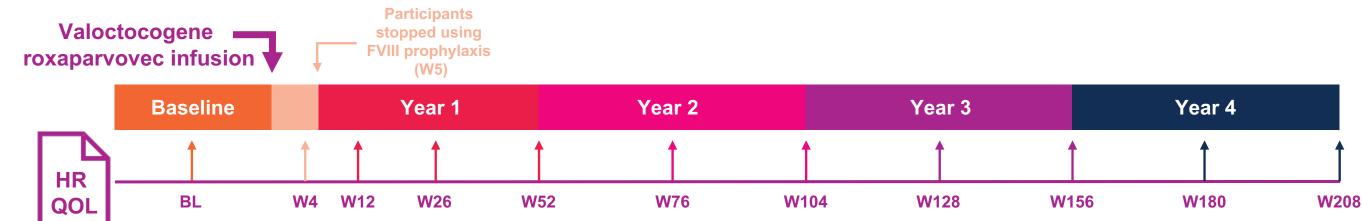
- Previously receiving FVIII prophylaxis
- No history of FVIII inhibitors or antibodies against the capsid
- No significant liver dysfunction

\*FVIII activity levels, safety outcomes, and change from baseline in annualized bleeding rate and annualized FVIII infusion rate are reported in a separate poster.

onfidence ir

treatment

efficacy



Travel

without

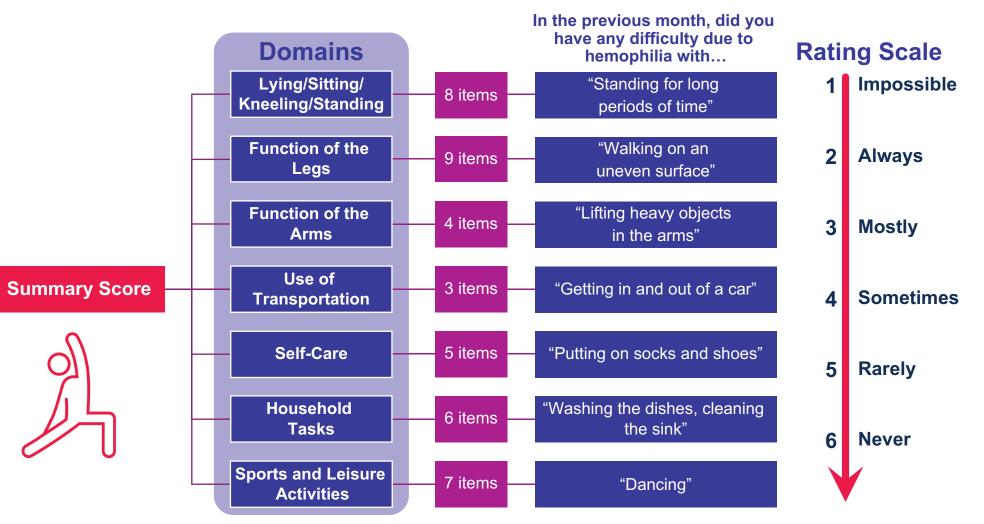
worry

BL, baseline; FVIII, factor VIII; HRQOL, health-related quality of life; W, week.

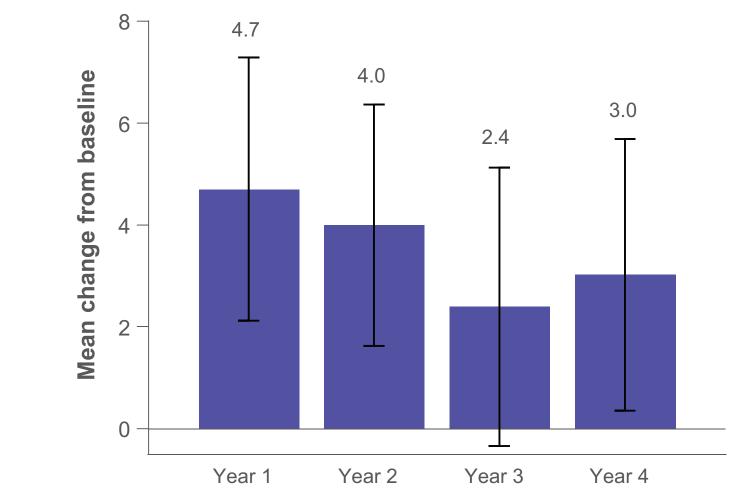
134 participants enrolled and received an infusion of valoctocogene roxaparvovec

Results are based on available data at each time point. Error bars represent 95% confidence intervals. Participants who resumed prophylaxis were excluded.

# HAL measures self-reported functional ability for people with hemophilia



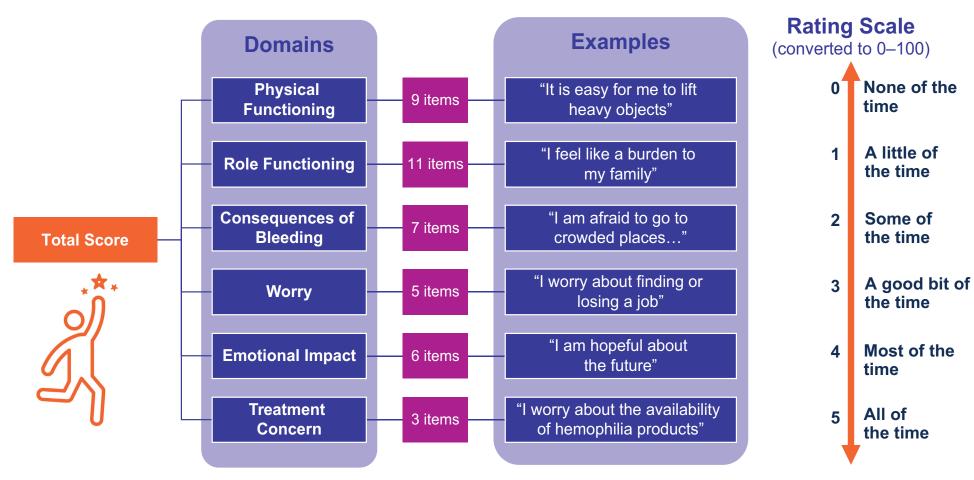
# HAL Summary Score improved over 4 years



## This analysis included the 132 participants who were HIV-negative

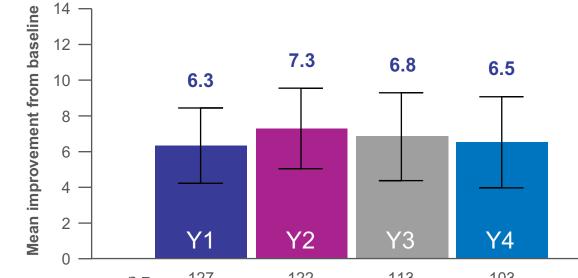
- To ensure results are based only on the effects of valoctocogene roxaparvovec, HRQOL data were analyzed by excluding data after participants restarted prophylaxis with FVIII or emicizumab; results with those data included were similar
- HRQOL instruments included the Haemophilia-Specific Quality of Life Questionnaire for Adults (Haemo-QOL-A), the Haemophilia Activities List (HAL), and the Work Productivity and Impairment plus Classroom Impairment Questions: Hemophilia Specific (WPAI+CIQ:HS)

# Haemo-QOL-A measures HRQOL in people with hemophilia



# **Results**

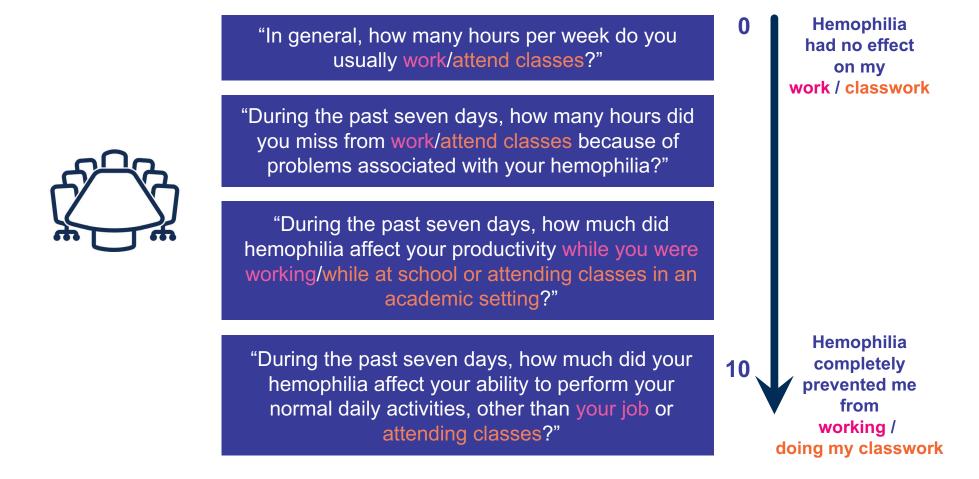
Valoctocogene roxaparvovec improved Haemo-QOL-A Total Score across 4 years



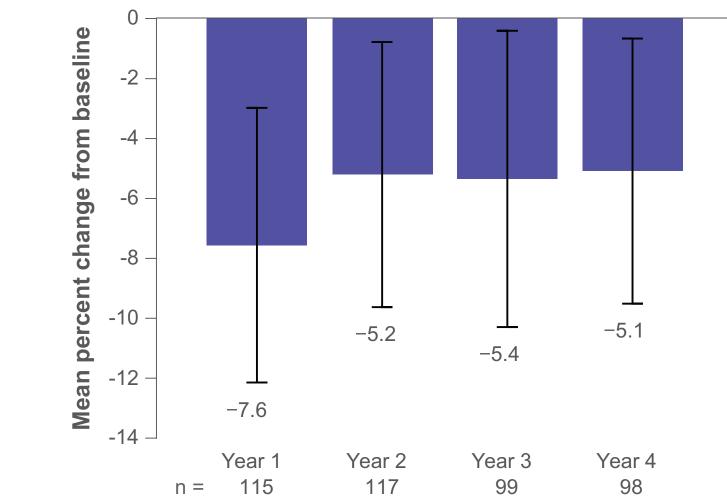
n = 124 122 113 104

Results are based on available data at each time point. Error bars represent 95% confidence intervals. Data after participants resumed prophylaxis were not included.

## The WPAI+CIQ:HS measures impairment at work and school due to hemophilia



# WPAI+CIQ:HS activity impairment was reduced over 4 years

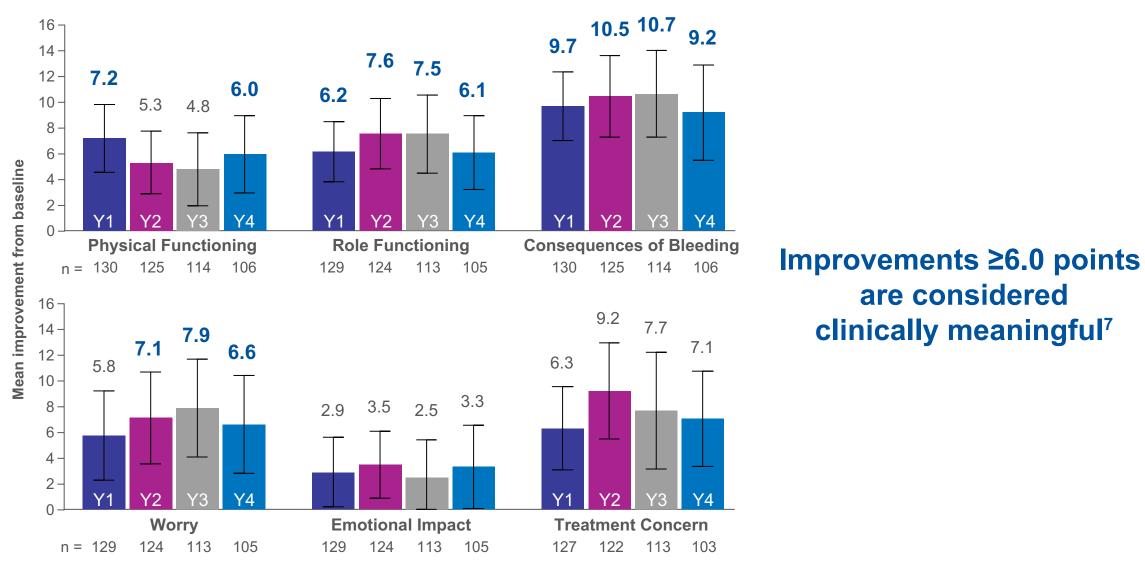


Results are based on available data at each time point. Error bars represent 95% confidence intervals. Data after participants resumed prophylaxis were not included.

### The improvements at the end of each year were deemed clinically meaningful<sup>7</sup>

The clinically important difference (CID) for Total Score is 5.5 points. Change from baseline results are based on available data at each time point. Error bars represent 95% confidence intervals. Data after participants resumed prophylaxis were not included. Y, year.

## **Consistent improvements for Haemo-QOL-A domain scores**



A clinically important difference (CID) for the Treatment Concern domain has not yet been estimated. Change from baseline results are based on available data at each time point. Error bars represent 95% confidence intervals. Data after participants resumed prophylaxis were not included. Y, year.

# Conclusions

# Haemo-QOL-A

- Valoctocogene roxaparvovec provides clinically meaningful HRQOL improvements over 4 years
- The meaningful improvements also apply to participants with FVIII activity
   <5% at year 4</li>

# HAL

 Participants reported improved ability to perform daily activities over 4 years

# WPAI+CIQ:HS

Work and school activity impairment scores were reduced over 4 years

 In general, HRQOL questionnaires try to capture the highly individual experiences of each person — as with any study, average values do not necessarily reflect the results of all participants

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#### References

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