

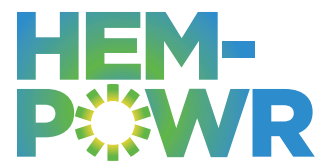
# Third Interim Analysis of the Phase 4 HEM-POWR Study Evaluating the Real-World Effectiveness of Damoctocog Alfa Pegol in Previously Treated Patients with Hemophilia A

Poster No.  
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## CONCLUSIONS

- These updated results from the ongoing HEM-POWR study provide further evidence for the real-world effectiveness of damoctocog alfa pegol in previously treated patients with mild, moderate, and severe hemophilia A.

## INTRODUCTION

- Damoctocog alfa pegol (BAY 94-9027, Jivi<sup>®</sup>) is a PEGylated extended half-life FVIII replacement product approved for use in previously treated patients aged ≥12 years with hemophilia A.<sup>1,2</sup>
- The effectiveness and safety of damoctocog alfa pegol has been demonstrated in previous interim analyses of the ongoing real-world HEM-POWR study, as well as in the Phase 2/3 PROTECT VIII clinical trial.<sup>3-5</sup>
- The aim of these analyses is to present updated real-world effectiveness data of damoctocog alfa pegol in previously treated patients with hemophilia A from the ongoing HEM-POWR study.

## RESULTS

- At data cut-off (August 17, 2022), 161 previously treated patients were included in the Full Analysis Set. The median (min, max) age at enrollment was 35.0 (13.0, 78.0) years and most patients (141/161; 87.6%) presented with severe hemophilia. The median (Q1, Q3) prescribed dose per infusion per kg of damoctocog alfa pegol at baseline was 37.5 IU/kg (30.6, 47.6). A total of 133/161 (82.6%) patients were pre-treated with damoctocog alfa pegol (prophylaxis [96.2%], on demand [2.3%], or intermittent prophylaxis [0.8%]). Other baseline characteristics are summarized in Table 1 and Figure 1.

Table 1. DEMOGRAPHICS AND BASELINE CHARACTERISTICS

Characteristic	Full Analysis Set (n=161)
Observation period, days, median (min, max)	362.0 (2.0, 944.0)
Age at enrollment, years, median (min, max)	35.0 (13.0, 78.0)
Sex, male, n (%)	160 (99.4)
<b>Race, n (%)*</b>	
White	76 (47.2)
Asian	60 (37.3)
Black or African American	6 (3.7)
Native Hawaiian or other Pacific Islander	1 (0.6)
<b>Disease severity at diagnosis, n (%)†</b>	
Mild	3 (1.9)
Moderate	15 (9.3)
Severe	141 (87.6)
Family history of hemophilia, yes, n (%)	81 (50.3)
Patient self-infusion, yes, n (%)	138 (85.7)
Prescribed dose per infusion per kg of damoctocog alfa pegol at baseline, IU/kg, median (Q1, Q3)	37.5 (30.6, 47.6)
<b>Prescribed dosing modality, n (%)</b>	
On demand	3 (1.9)
Prophylaxis	158 (98.1)
Intermittent prophylaxis	0 (0.0)
<b>Patients pre-treated with damoctocog alfa pegol</b>	<b>n=133</b>
<b>Most recent prescribed dosing modality of damoctocog alfa pegol prior to initial visit, n (%)‡</b>	
On demand	3 (2.3)
Prophylaxis	128 (96.2)
Intermittent prophylaxis	1 (0.8)
<b>Most recent damoctocog alfa pegol prophylaxis regimen prior to initial visit in pre-treated patients, n (%)</b>	
Every day	3 (2.3)
Every 2 days	22 (17.2)
Every 3–4 days	66 (51.6)
Every 5 days	21 (16.4)
Every 7 days	16 (12.5)

\*Missing/not reported for 18 (11.2%) patients; †Missing for 2 (1.2%) patients; ‡Missing for 1 (0.8%) patient. IU, international units; Q1, 1<sup>st</sup> quartile; Q3, 3<sup>rd</sup> quartile; SD, standard deviation.

## METHODS

- HEM-POWR (NCT03932201) is a prospective, multinational, observational, open-label Phase 4 study of damoctocog alfa pegol in previously treated patients with mild, moderate, and severe hemophilia A in a real-world clinical setting.
- This is the third interim analysis of the HEM-POWR study.
- The primary endpoints were annualized bleeding rate (ABR) and joint health.
- Patients in the Full Analysis Set had to fulfill all inclusion criteria with a documented first study drug dose and ≥1 infusion during the observation period.
- Previously treated patients starting or currently receiving damoctocog alfa pegol with any kind of treatment modality (ie, on-demand, prophylaxis, or intermittent prophylaxis) are eligible for enrollment to the study.
- Statistical analyses were descriptive and explorative. Data were collated from patient e-diaries and physician records, and ethical approval was obtained at all sites.

- All patients across all joint types, and the total, had a mean decrease in bleeds during observation vs prior to study (Figure 2).
- The mean difference of total ABR during the observation period and prior to damoctocog alfa pegol initiation was -0.9 (9.4) (Table 2).
- Previously treated patients had a mean (SD) of 1.8 (2.2) infusions for bleeding control, and 68.7% of bleeding events were controlled with a single damoctocog alfa pegol infusion.
- During the observation period, 97/161 (60.3%) patients had no bleeding events requiring treatment, 121/161 (75.2%) had no spontaneous bleeds, and 110/161 (68.3%) had no joint bleeds (Figure 3).

Figure 1. COUNTRIES OF RECRUITMENT INTO THE FULL ANALYSIS SET (N=161)

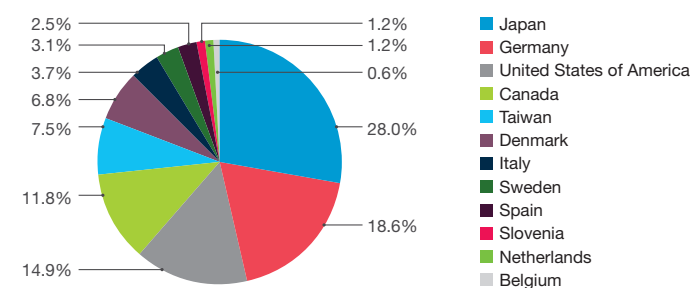
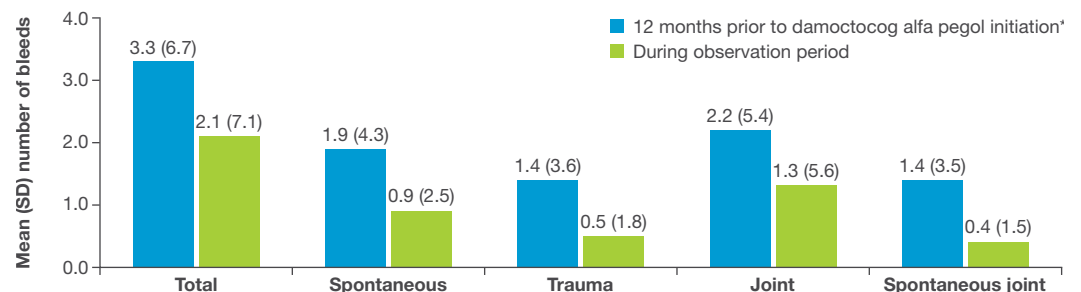


Figure 2. MEAN (SD) NUMBER OF BLEEDS WITHIN 12 MONTHS PRIOR TO DAMOCTOCOG ALFA PEGOL INITIATION AND DURING THE OBSERVATION PERIOD (FULL ANALYSIS SET, N=161)



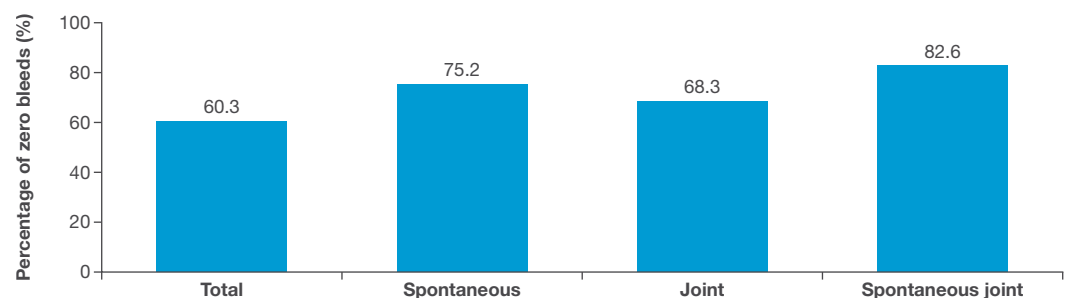
\*Missing/not reported for 5 (3.1%) patients; SD, standard deviation.

Table 2. DIFFERENCE OF ABR DURING THE OBSERVATION PERIOD AND PRIOR TO DAMOCTOCOG ALFA PEGOL INITIATION BY BLEED TYPE (FULL ANALYSIS SET, N=161)

Median (Q1, Q3); mean (SD) difference of ABR				
Total	Spontaneous	Trauma	Joint	Spontaneous joint
0.0 (-2.1, 0.0); -0.9 (9.4)	0.0 (-1.0, 0.0); -0.5 (7.7)	0.0 (-1.0, 0.0); -0.9 (3.3)	0.0 (-1.0, 0.0); -0.9 (5.5)	0.0 (-1.0, 0.0); -0.9 (3.6)

Data during the observation period were calculated based on an annualized rate; data prior to initiation were the average number of bleeds over 12 months. ABR, annualized bleeding rate; Q1, 1<sup>st</sup> quartile; Q3, 3<sup>rd</sup> quartile; SD, standard deviation.

Figure 3. PERCENTAGE OF ZERO BLEEDS IN THE OBSERVATION PERIOD BY BLEED TYPE (FULL ANALYSIS SET, N=161)



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<https://bit.ly/EAHAD2023Reding>

## Disclosures

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