Understanding the real-world effectiveness of pegcetacoplan for the treatment of paroxysmal nocturnal hemoglobinuria (PNH) in the United States

CONCLUSIONS

- ✓ These findings demonstrate the real-world effectiveness of PEG, through improvement across multiple clinical endpoints from PEG initiation to the time of survey completion.
- ✓ Noticeable increases in hemoglobin (3.4 g/dL) from PEG initiation to the time of survey completion were reported.
- Congruence between physician and patient reported satisfaction with PEG was reported. Both reported favorable satisfaction with PEG, highlighting the potential for PEG to improve outcomes for current PNH patients.
- ✓ Further research is required to understand the long-term effectiveness of PEG in the real-world.

INTRODUCTION

- PNH is a rare, chronic, and potentially fatal disease. It is caused by uncontrolled complement activation³ resulting in hemolysis, which clinically manifests as anemia, fatigue, and in severe cases, thrombosis⁴.
- Patients with PNH have negatively impacted daily living and quality of life $(QoL)^5$ as a result of their symptoms.
- Current treatments (e.g., C3/C5 inhibitors) inhibit complement activation to manage complement-driven hemolysis and its associated symptoms.
- Symptoms associated with low hemoglobin (<12 g/dL) including fatigue⁶ and LDH values above the upper limit of normal⁷ have been reported to persist in patients receiving C5 inhibitor treatment.
- This highlights a need for a treatment that can prevent breakthrough symptoms and improve the QoL of PNH patients.

OBJECTIVE

In this analysis, we assessed the clinical effectiveness of pegcetacoplan (PEG) for real-world PNH patients in the USA.

METHODS

- Data were drawn from the Adelphi PNH Disease Specific Programme[™] (DSP), a real-world, cross-sectional survey in the USA ran between January-November 2022. The DSP methodology has been previously published⁸ and was conducted according to the relevant regulations.
- Hematologists and oncologists were asked to complete questionnaires for their consulting patients with PNH. Physicians reported data on patient demographics, clinical markers, treatment satisfaction, disease control and health-related QoL (HR-QoL).
- The same patients were invited to provide self-reported data regarding treatment satisfaction and HR-QoL measures including the FACIT fatigue¹ and EQ-5D-5L². Matched data was reported from the physician and the patient where available
- Patients were eligible for inclusion if currently prescribed PEG for ≥6 months. Descriptive statistics were reported.

Jesse Fishman¹, Carly Rich², Koo Wilson², Jennifer Mellor-Bowman³, Lucy Earl³, Yasmin Taylor³, Alice Simons³, Joe Conyers³

1Apellis Pharmaceuticals, MA, USA; 2Sobi Pharmaceuticals, Stockholm, Sweden; 3Adelphi Real World, Bollington, UK

RESULTS

- 5 hematologists recorded data for 22 patients with PNH treated with PEG. 59.1% were male, with a median age of 35.0 years, and two-thirds
- remained in full/part time employment at the time of survey completion. Median time since diagnosis was 2.4 years. (Table 1)
- Patients had been receiving PEG for a median of 10.3 months and 90.9% of patients had switched from a previous C5 inhibitor treatment.
- All patients received a dose of 1080 mg every 3-4 days, which is in line with the label indication. (Table1)

Table 1: Demographics for physician reported patient data			
	All patients (n=22)		
ge (years), median (range)	35.0 (20.0-67.0)		
ex (Male), n (%)	13 (59.1)		
MI, median (range)	24.9 (22.1-27.8)		
mployed (full or part time), n (%)	14 (63.6)		
o-morbidities, median (range)	0.5 (0.0-4.0)		
ime since diagnosis (years), median (range)	2.4 (0.8-10.7)		
witched from C5 inhibitors* (%)	20 (90.9)		
ime receiving PEG (months), median (range)	10.3 (6.2-14.9)		
ose (mg), median (range)	1080.0 (1080.0-1080.0)		
	(n=20)		
requency of PEG administration (days), mean (SD)	3.0 (0.0)		
EG administered every 3 days, n (%)	20 (100.0)		

Median was displayed where data was not normally distributed, BMI: Body Mass Index

*Includes eculizumab (ECU) and ravulizumab (RAVU). All (16) ECU patients were receiving the recommended dose. 2 RAVU patients were receiving a dose of 2700mg and 2 were receiving 2400mg which is below the

15 patients provided self reported data. Of these patients, 53.3% were male with a median age of 35.0. They had been receiving PEG for slightly longer time than the overall patient group (12.4 vs 10.3 months). (Table 2)

able 2: Demographics for	patients with	self-reported	data at time of survey
--------------------------	---------------	---------------	------------------------

	All patients (n=15)
Age (years), median (range)	35.0 (20.0-48.0)
Sex (Male), n (%)	8 (53.3)
Employed (full or part time), n (%)	8 (53.3)
ime since diagnosis (years), median (range)	3.2 (0.9-10.7)
ime receiving PEG (months), median (range)	12.4 (6.6-14.9)
Q-5D Utility score, mean (SD)	0.94 (0.1)
ACIT-Fatigue score, mean (SD)	40.8 (7.7)
	(n=14)
Q-5D VAS score, mean (SD)	87.4 (7.0)

- improvement in hemoglobin on average (8.2 g/dL vs. 11.6 g/dL) (Figure 2a). initiation to the time of survey time (27.3% vs. 68.2% reporting LDH <1.5x
- From PEG initiation to the point of the survey, physicians reported a 3.4 g/dL Improvements in lactate dehydrogenase (LDH) were also reported from PEG
- The proportion of patients reported to experience no fatigue also increased from PEG initiation to the time of survey completion (0.0% vs. 59.1%, respectively) (Figure 2c).











Disclosures: LE, YT, AS, JC are employees of Adelphi Real World, KW, CR are employees of Sobi Pharmaceuticals and JF is an employee of Apellis Pharmaceuticals, who received funding from Sobi/Apellis Pharmaceuticals for this analysis.



Acknowledgements: Sobi Pharmaceuticals and Apellis Pharmaceuticals provided funding towards this study.

