# The Impact of Acute Hepatic Porphyria (AHP)

The debilitating burden of this disease can impact your patients' quality of life today, and long term.

#### What is AHP?

AHP is a rare genetic condition characterized by acute, potentially life-threatening attacks, as well as chronic ongoing symptoms. AHP patients often face a higher risk of long-term complications such as hypertension, chronic kidney disease, hepatocellular carcinoma, depression, and anxiety.<sup>1,2</sup>

## These studies explored the impact of AHP

• POWER\* was a study where 92 adults with AHP who experienced 1 or more attacks in the last 2 years or were receiving hemin and/ or glucose (prophylactically or on demand) participated in a survey to determine the impact of AHP on their well-being and emotional, mental, and physical needs.3

\*POWER=Porphyria Worldwide Patient Experience Research.

● = POWER study ■ = EXPLORE study

■ EXPLORE was a 2-part prospective natural history study of 112 patients (Part A) and 136 patients (Part B) with AHP to gather data on impact of AHP on symptoms, treatment, quality of life, and health status. Patients in Part A included those who experienced recurrent attacks (≥3 over the last year) or received prophylactic treatment. Including eligible patients from Part A, Part B also enrolled patients with relatively few attacks (<3 attacks without prophylactic treatment).²

# Patients' quality of life can worsen due to chronic symptoms, regardless of attack recurrence<sup>†4</sup>



- Patients reported acute symptoms such as pain, muscle weakness, and fatigue<sup>‡3</sup>
- Pain limited the daily activities of nearly 95% of patients<sup>3</sup>



- A majority of patients with recurrent attacks reported chronic symptoms between attacks in the past 12 months<sup>2</sup>
- Elevated levels of ALA and PBG (which are associated with long-term complications) were observed in patients outside of attacks and increased further during attacks<sup>§1,2,5,6</sup>

ALA, aminolevulinic acid; PBG, porphobilinogen; QOL, quality of life; ULN, upper limit of normal.

<sup>§</sup>Elevated ALA and PBG levels were above the ULN of 1.5 mmol/mol for urinary ALA and 0.14 mmol/mol for urinary PBG.<sup>2</sup>



<sup>&</sup>lt;sup>†</sup> Quality of life was measured by the EuroQol visual analog scale (EQ-VAS), which ranges from 0 (worst imaginable health state) to 100 (best imaginable health state). At baseline, scores were 62.9 and 71.8 in patients with ≥3 attacks or prophylaxis and in patients with <3 attacks and no prophylaxis, respectively.⁴

<sup>&</sup>lt;sup>‡</sup>The most burdensome acute symptoms reported were acute pain (72%), acute muscle weakness (37%), and acute fatigue (28%).<sup>3</sup>

#### The emotional toll of AHP is immense<sup>4</sup>

- In patients who experienced 0-5 attacks in the past 2 years, 53% and 44% reported having moderateto-severe depression and anxiety, respectively\*3
  - \*Moderate-to-severe depression and anxiety scores were determined by PHQ-8 and GAD-7 scores ≥10, respectively. GAD-7 scores range from 0-21 and PHQ-8 scores range from 0-24, with higher scores indicating increases in severity.³
- **51**% of patients with recurrent attacks reported problems affecting their quality of life due to anxiety and depression<sup>†2</sup>
  - <sup>†</sup>Anxiety/depression was measured by the EQ-5D-5L Index, a 5-dimension visual analog scale that goes up to 100, which signifies the maximal score and best overall health.<sup>2</sup>

## From work to home, AHP doesn't let up

**60%** of patients reported often feeling lonely or isolated<sup>3</sup>

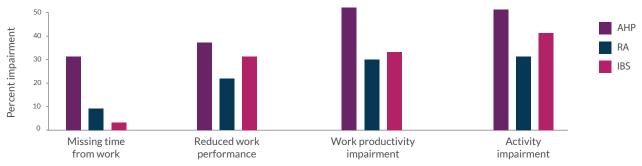
**73%** of patients agree that AHP has kept them from working at their full potential<sup>‡3</sup>

**61%** reported the disease affects their ability to keep a job at all<sup>‡3</sup>

# Patients with AHP worry about how their illness affects the people closest to them

Approximately 3 out of 4 patients with AHP reported increased guilt and frustration about how their disease impacts the people around them.<sup>3</sup>

 Patients with AHP report work productivity and activity impairment comparable to those with rheumatoid arthritis (RA) and irritable bowel syndrome (IBS)<sup>‡§7-10</sup>



<sup>&</sup>lt;sup>‡</sup>Data were based on the Work Productivity and Activity Impairment (WPAI) instrument, which was used to evaluate absenteeism, presenteeism, overall work productivity, and activity impairment.<sup>7</sup>

#### Learn more about AHP, and find resources for your patients

Learn about disease pathophysiology, symptoms, testing, and treatment information for AHP at **porphyriadiagnosis.com**.



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<sup>§</sup>The data are sourced from different studies (150 patients with RA from a 2010 study, 135 patients with IBS from a 2004 study).