

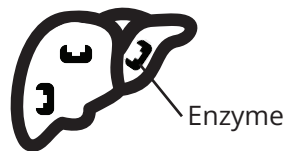


Isabelle, AHP Patient & Patient Advocate, AFMAP

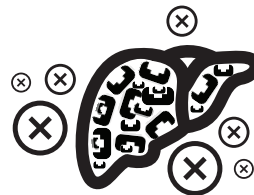
The importance of **FAMILY GENETIC TESTING FOR AHP**

What is AHP?

Acute Hepatic Porphyria (AHP) is a family of rare genetic diseases, caused by gene mutations that affect the liver's ability to make haem. Acute intermittent porphyria (AIP) is the most common type of AHP.



Haem helps the liver function properly and is essential for the human body.



In AHP, an enzyme involved in haem synthesis does not work correctly.



The result is **the buildup of toxins** called aminolevulinic acid (ALA), porphobilinogen (PBG), and porphyrins in the liver, which are then released throughout the body.



AHP attacks, chronic symptoms, and long-term complications occur when the nervous system reacts to the excess ALA, PBG, and porphyrins.



Symptoms vary widely but **abdominal pain, nausea and vomiting, constipation, dark urine, and confusion** are common, usually appearing in women between 14 and 45 years old.

AHP: Acute Hepatic Porphyria AIP: Acute Intermittent Porphyria ALA: Aminolevulinic Acid PBG: Porphobilinogen



www.livingwithporphyria.eu
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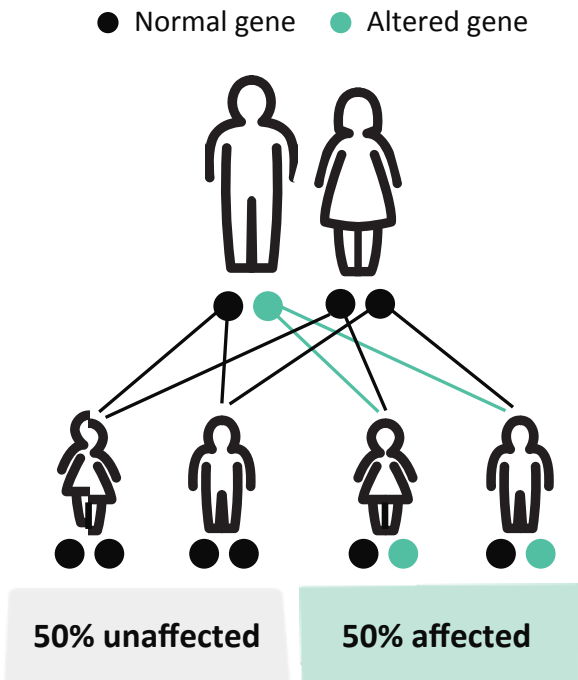
This document is intended for the general public in Europe, Middle East and Africa with the purpose of health promotion, disease prevention and providing advice to help understand the disease development and to help improve quality of life. Nothing in this piece constitutes individual medical advice. Individuals are advised to consult their physician or other appropriate healthcare professional (HCP) for a correct diagnosis and management of the disease. All illustrations are by Alnylam. Consent received from each patient and caregiver presented in this piece. AS1-CEMEA-00240 March 2024

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What is the genetic basis of AHP?

AHP is **hereditary**, meaning it can be passed down from one generation to the next.



If one parent carries the altered gene, a child has a 50% chance of inheriting the mutation.

It is generally passed down in an autosomal dominant pattern, which means a person only needs to inherit one copy of the altered gene from one parent in order to develop the disease risk.

If you inherit the gene, you are at risk of inheriting the disease, but most people will never develop symptoms.



AHP is not linked to gender, so men and women have an equal chance of inheriting the altered gene though women are often more likely to experience symptoms.

Why is family genetic testing important?

Knowing if you've inherited the genetic mutation may enable you to make **informed decisions** regarding **lifestyle and medications** with the intent of **preventing attacks** and complications of the disease.



Alicia, AHP Patient and BPA Volunteer

AHP: Acute Hepatic Porphyria

Understanding genetic testing



Tests blood or saliva for an AHP gene mutation.



Can help confirm diagnosis or determine the specific type of AHP.



Can help inform you and your family who may be at risk for AHP symptoms.

Who should have a genetic test?

Those at risk of inheriting the AHP mutation from a family member.

Identify who might be at risk in your family by filling out the **Family Mapping Tool**.

Where can I go to have a genetic test?

If you decide genetic testing is right for you, speak with your healthcare provider about where to have a genetic test.

Support from a genetic counsellor

Genetic counselors can help you understand and make informed decisions on various topics by:



Explaining the genetic basis of AHP.



Helping you understand your family history.



Helping with family planning.



Dispelling rumours and myths.



Finding solutions to individual problems.



Supporting discussions with family members.

AHP: Acute Hepatic Porphyria



Speaking to my family



Start by saying AHP is real.



Explain that most people with AHP don't have symptoms, but some experience acute attacks, chronic attacks, and long-term complications.



Encourage them to be genetically tested so they can make informed decisions.

Veronica, AHP Patient and Advocate, AEP

Resources and information



**British
Porphyria
Association**
www.porphyrria.org.uk



GPAC
GLOBAL PORPHYRIA
ADVOCACY COALITION
www.gpac-porphyrria.org

You are not alone. There are many sources of information and support, plus ways to connect with other patients and families. These organisations can help.

Visit www.livingwithporphyria.eu Alnylam's sponsored website, to find additional resources for understanding and living with AHP

Developed together with a steering committee consisting of European porphyria patient association leaders, AHP patients, caregivers and health care professionals. Funded by Alnylam.