

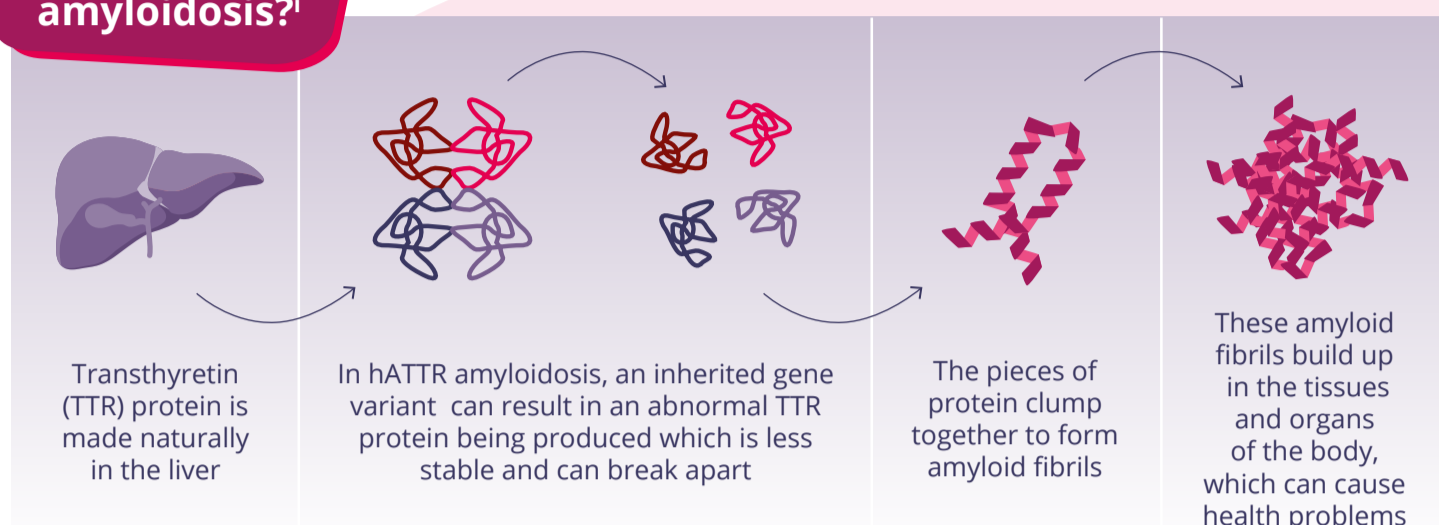
# Understanding Hereditary ATTR (hATTR) Amyloidosis

Hereditary ATTR (hATTR) amyloidosis is one of the two main types of ATTR amyloidosis – the other being wild-type (wtATTR) amyloidosis.

Unlike the wild-type form, hATTR amyloidosis is known to be linked with certain gene variants (gene mutations) that can be passed down to family members.

However, people with a specific gene variant linked to hATTR amyloidosis will not necessarily develop any symptoms.

## What is hATTR amyloidosis?<sup>i</sup>



## Gene variants

There are lots of gene variants known to be linked to this disease. Some are more prevalent in certain parts of the world or in certain groups of people than others. For example:

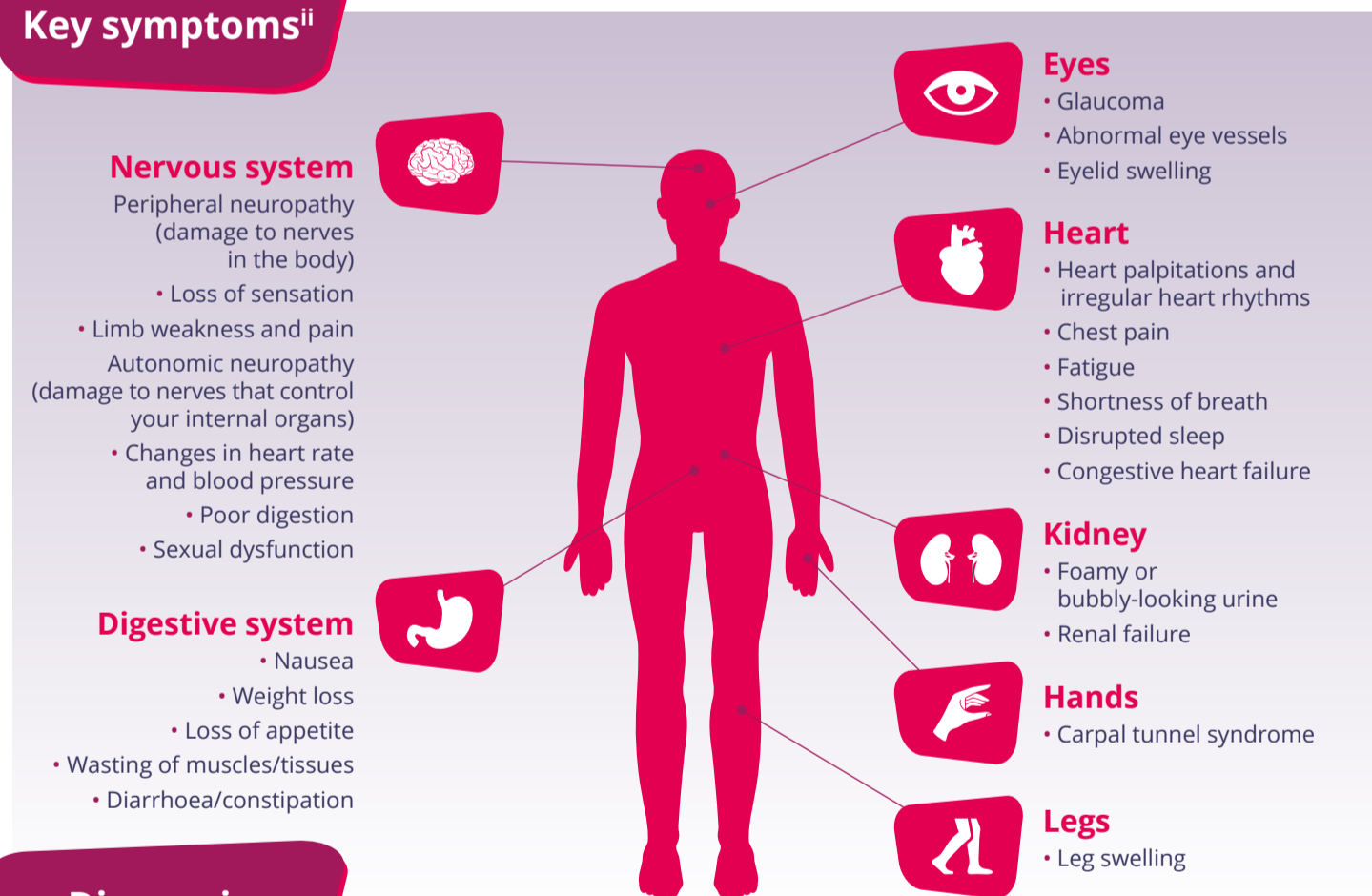
- **V30M** is the most common genetic variant associated with hATTR amyloidosis and is linked to certain parts of Portugal, where around 1 in 500 people carry this variant
- **V122i** is commonly linked to people of Black African or Afro-Caribbean descent
- **T60A** is the most common variant in the UK and is frequently linked to people with Irish ancestry



## Can I pass it on to my children?

Although not all people with a genetic variant that is linked to hATTR amyloidosis will develop symptoms, the genes associated with this disease can be passed down through families. For each pregnancy, there is a 50% (1 in 2) risk that a child will have the gene variant.

## Key symptoms<sup>ii</sup>



## Diagnosis

- Because patients often present with symptoms that resemble other, more common conditions it can be difficult to diagnose hATTR amyloidosis. Common diagnostic tests include:



Genetic tests



Blood or urine tests



Testing a sample of body tissue (biopsy)

## Treatment

- While positive advances have been made and new treatment options are emerging, there is not currently a cure for hATTR amyloidosis.
- Treatment plans generally follow two principles:



### Supportive treatment

using medication to treat symptoms and associated organ damage



### Source treatment

preventing or slowing production of amyloid at the source, either through a liver transplant or using relatively new medicines that aim to disable production of the TTR protein

## The National Amyloidosis Centre (NAC)

Patients with suspected or diagnosed ATTR amyloidosis should be assessed by a specialist unit. In the UK, the **NHS National Amyloidosis Centre (NAC)** at the Royal Free Hospital, London, will be where most people are referred to for specialist help.

### References

<sup>i</sup> Amyloidosis: ATTR (transthyretin). Cleveland Clinic. Available at: <https://my.clevelandclinic.org/health/diseases/17855-amyloidosis-attr>. Last accessed: June 2021.

<sup>ii</sup> Hereditary Amyloidosis. Amyloidosis Foundation. Available at: <https://amyloidosis.org/facts/familial/#symptoms>. Last accessed: June 2021.