# Brought to you by the people at Pfizer Heart failure patients, IT'S TIME TO SEE THE BIGGER PICTURE

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#### our symptoms could add up to something more serious than you realize.

ATTR-CM (transthyretin amyloid cardiomyopathy) is a serious, underrecognized, and underdiagnosed type of amyloidosis that affects the heart and is associated with heart failure.

hortness Breath

Lower Back Pain

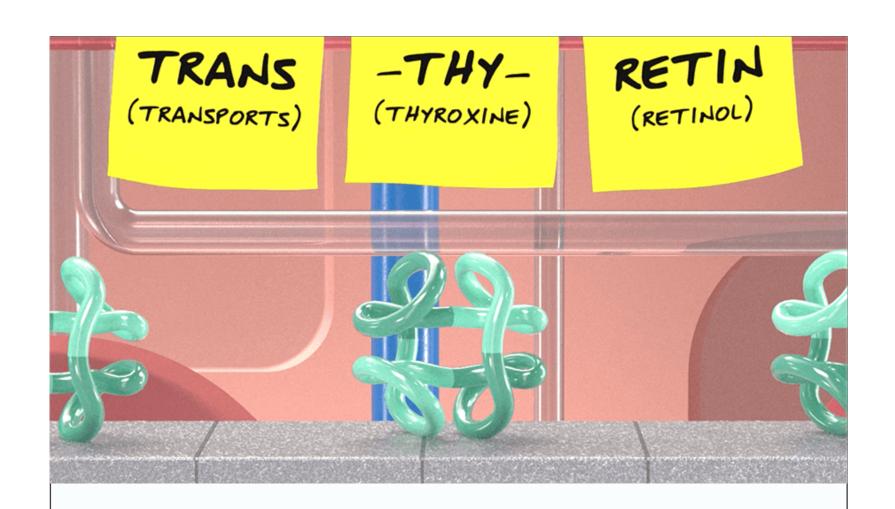
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## HATIS ATTR-CA

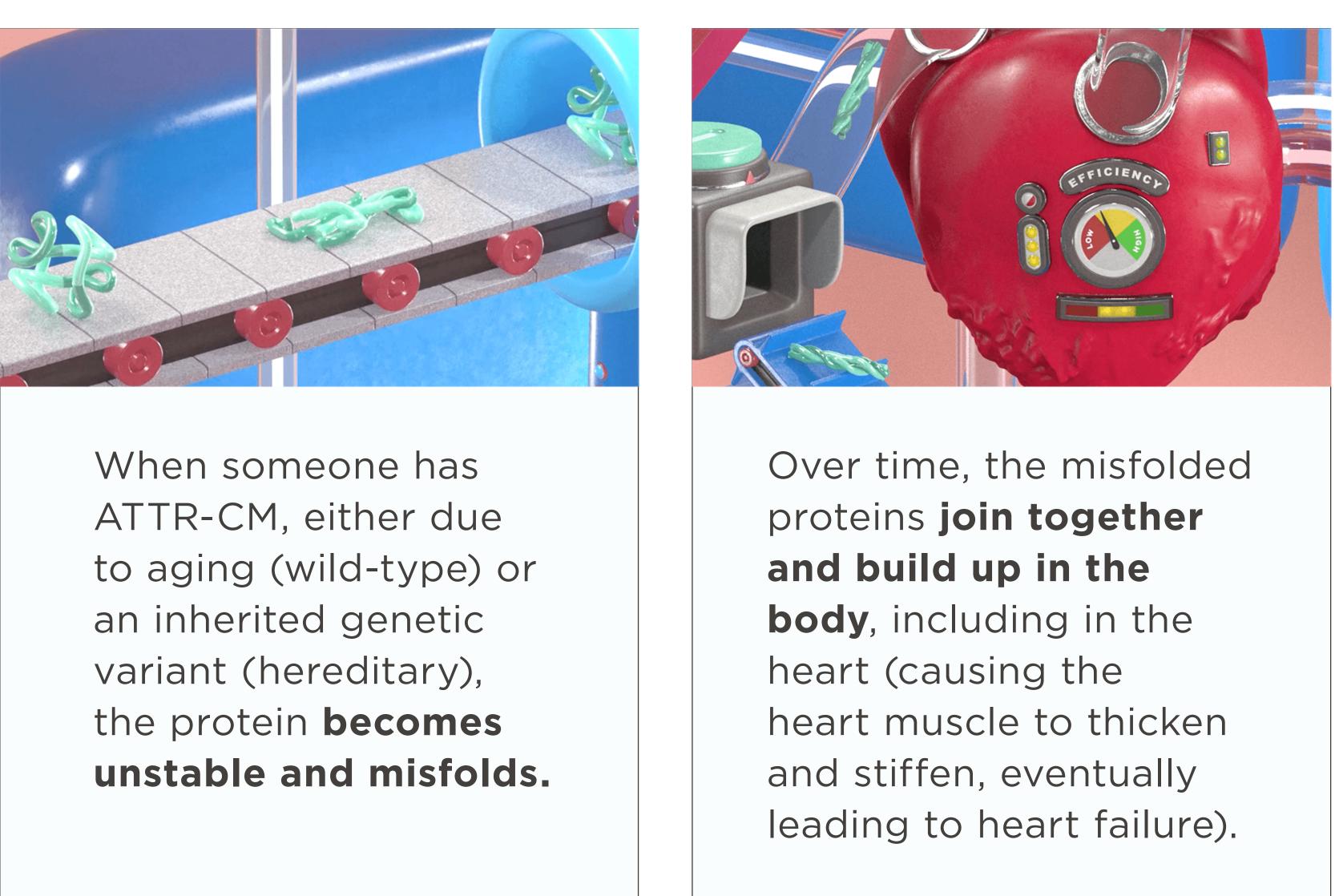
Amyloidosis is a group of diseases in which certain proteins change shape, or "misfold," and can build up in different parts of the body. When these misfolded transthyretin proteins build up in your heart, it may lead to ATTR-CM, a serious and often underdiagnosed condition that is associated with heart failure.

Imagine your body as a factory, composed of many systems working together to maintain your health. The liver is just one part of that system, but it carries out many important jobs that can affect your entire body, including the heart.



The liver produces transthyretin, a transport protein that carries the hormone thyroxine and vitamin A (retinol) throughout the bloodstream, including the heart.

## Here's what happens inside the body with ATTR-CM

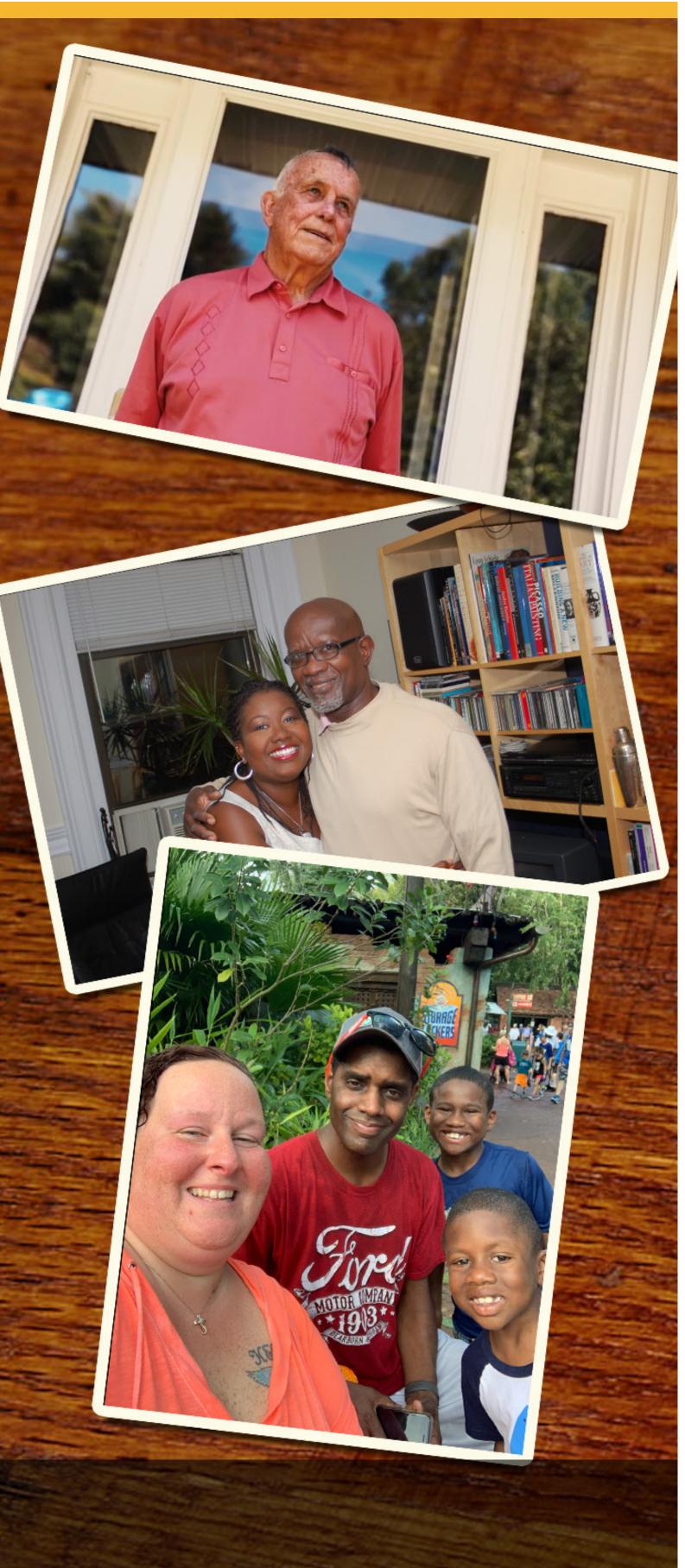


#### WATCH VIDEO



TYPES OF ATTR-CM

#### **Types of ATTR-CM**



### TYPES OF ATTR-CM

There are 2 types of ATTR-CM



### Types of ATTR-CM

### WILD-TYPE ATTR-CM (wtATTR)

### Associated with aging

- of 60

### Caused by a change (or "mutation") in one of your genes

### **EREDITARY ATTR-CM** hATTR)

Most often affects white men over the age

May be the most common form of ATTR-CM

Passed down from a relative

 Affects both men and women, with symptoms beginning as early as 50 to 60 years old

 There are more than 120 known mutations that cause hATTR; the most common mutation in the United States is V122i

**HEART TALKS: PATIENT STORIES** 

SIGNS & SYMPTOMS

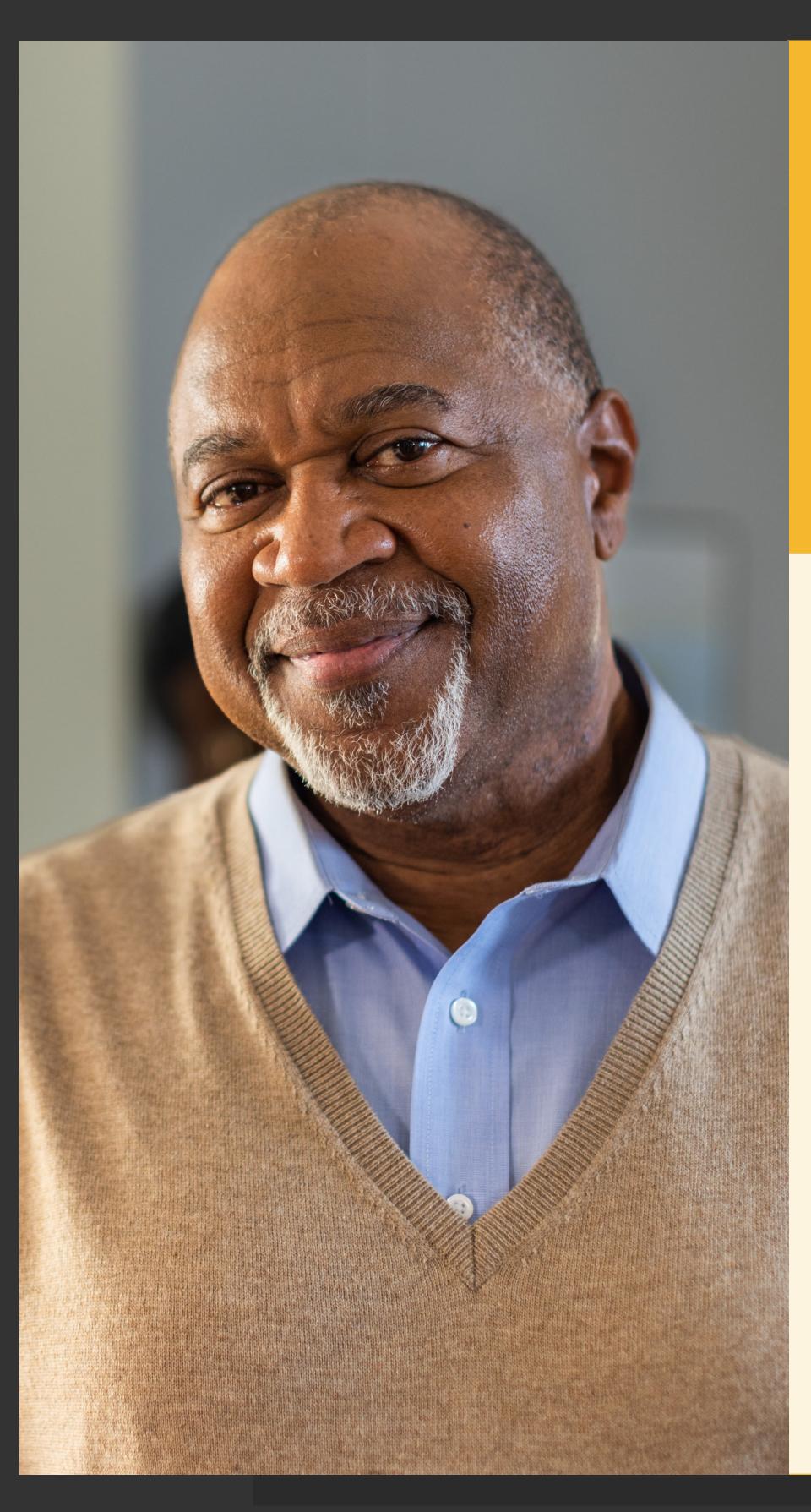


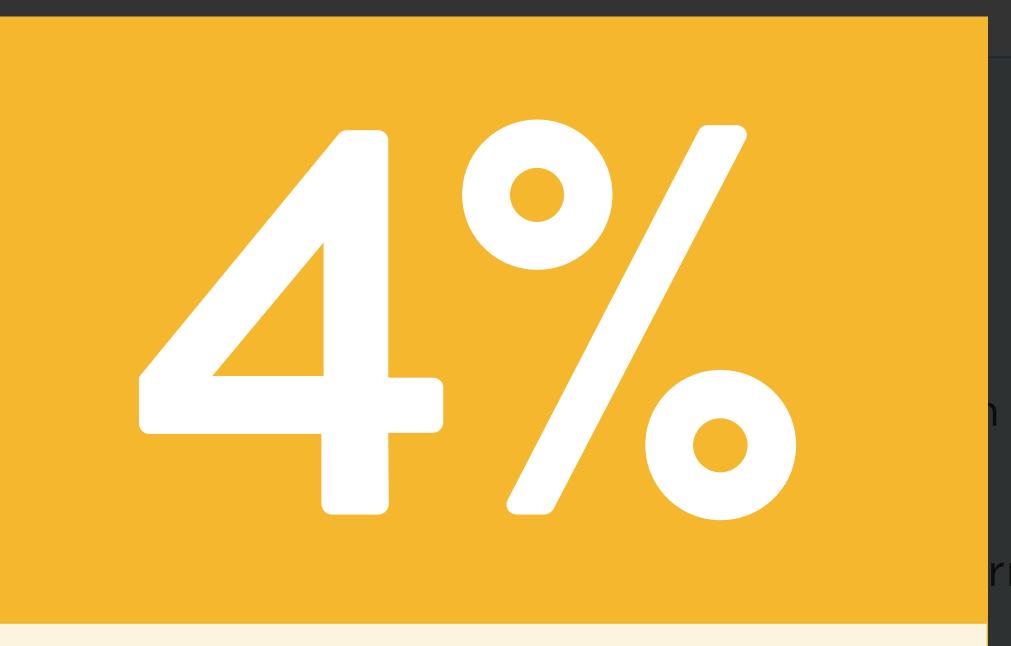
Signs & Symptoms

# UNDERSTAND THE SIGNS AND SYMPTOMSOF ATTR-CM

Did you know that some seemingly unrelated signs and symptoms could be caused by ATTR-CM? Your body may be sending you a message.

## Types of ATTR-CM





### V122i ALMOST **EXCLUSIVELY AFFECTS AFRICAN AMERICANS**

In the United States, the V122i mutation is found almost exclusively in individuals of African ancestry. Approximately 3% to 4% of African Americans in the US are thought to be carriers of the mutation. However, not all individuals with the V122i mutation develop symptoms of hereditary ATTR-CM.

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over the age

#### m of ATTR-CM

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with symptoms ) years old

vn mutations that non mutation in

**SIGNS & SYMPTOMS** 



**TYPES OF ATTR-CM** 

#### FATIGUE

excessive tiredness

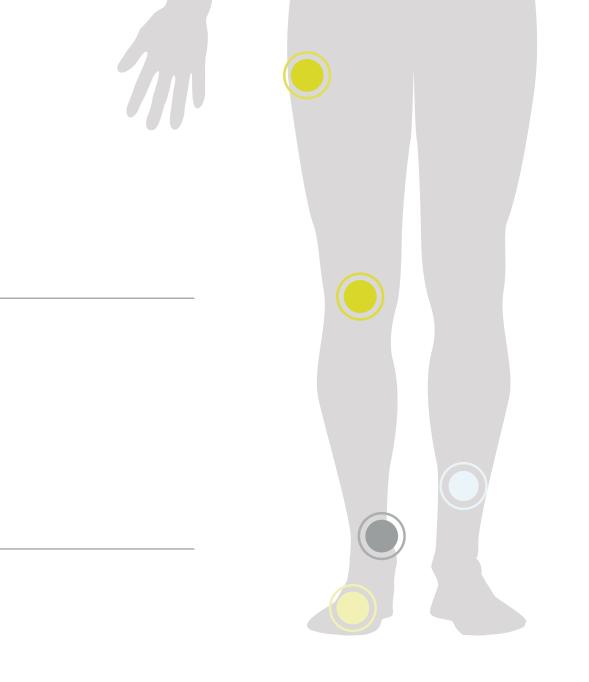
**TENDON RUPTURE** eg, biceps, Achilles tendon

**STOMACH ISSUES** eg, diarrhea, constipation, nausea, or feeling full quickly

#### SHOULDER, HIP, AND/OR KNEE PAIN

#### **DECREASED SENSATION**, STRANGE TINGLING, OR PAIN IN TOES OR FEET

peripheral neuropathy



These examples are for illustrative purposes only. Signs and symptoms may vary from patient to patient.



### FATIGUE excessive tiredness

**ATTR-CM** can affect many organs in the body and can contribute to excessive tiredness or fatigue.

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#### **EYE DISORDERS**

eg, glaucoma

#### SHORTNESS OF BREATH

#### **IRREGULAR HEARTBEAT**

cardiac arrhythmia

#### **CARPAL TUNNEL SYNDROME**

numbness, tingling, or pain in fingers

#### LOWER BACK PAIN

lumbar spinal stenosis

#### **SWELLING IN LOWER LEGS**

peripheral edema



**TYPES OF ATTR-CM** 

#### FATIGUE

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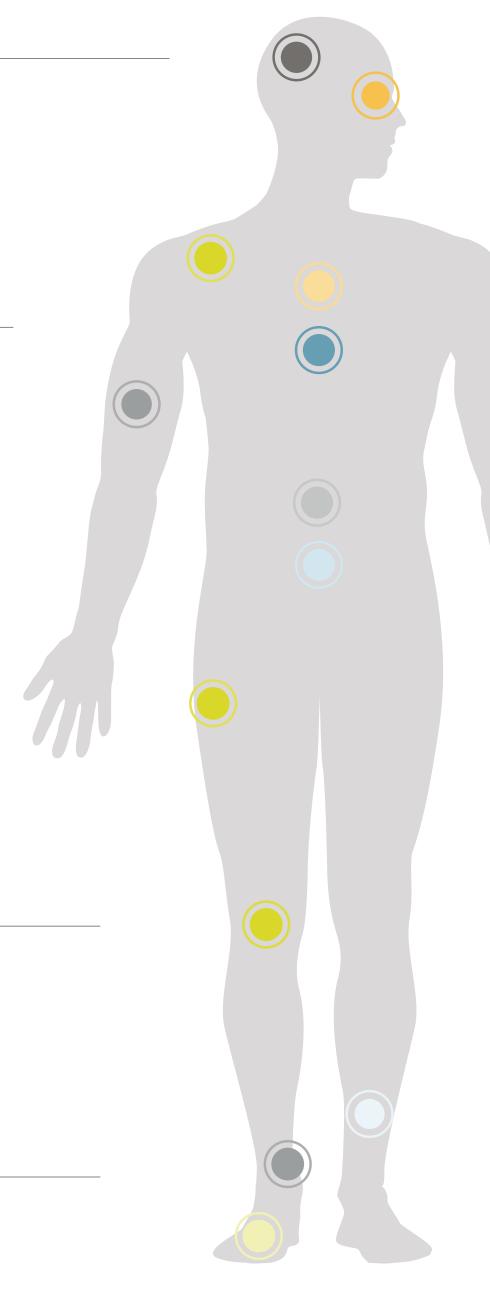
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### **EYE DISORDERS** eg, glaucoma

Amyloid can deposit into ocular tissues, possibly affecting the cornea, retina, or pupil. It can also lead to disorders, such as glaucoma.

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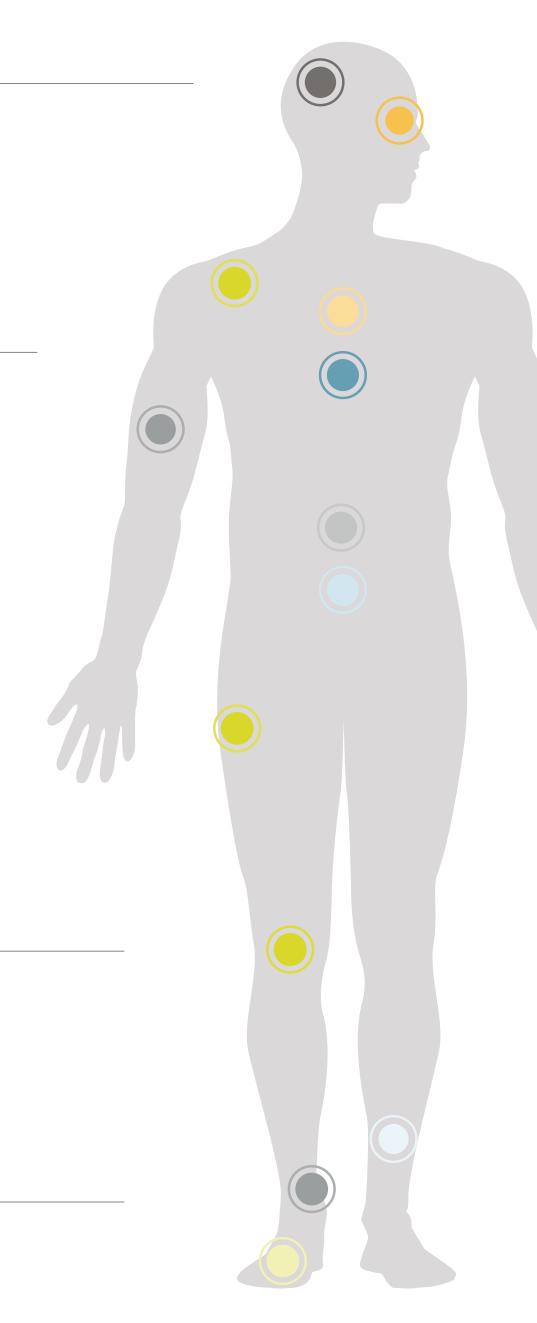
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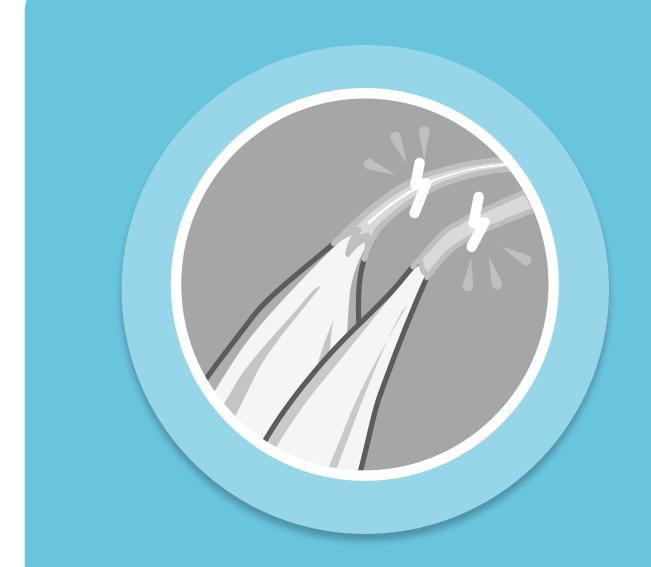
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### **TENDON RUPTURE** eg, biceps

Buildups of the TTR protein can cause the rupture of tendons even if an injury does not occur. A sudden rupture of the biceps tendon is rare, but it is a common sign of wild-type **ATTR-CM**.

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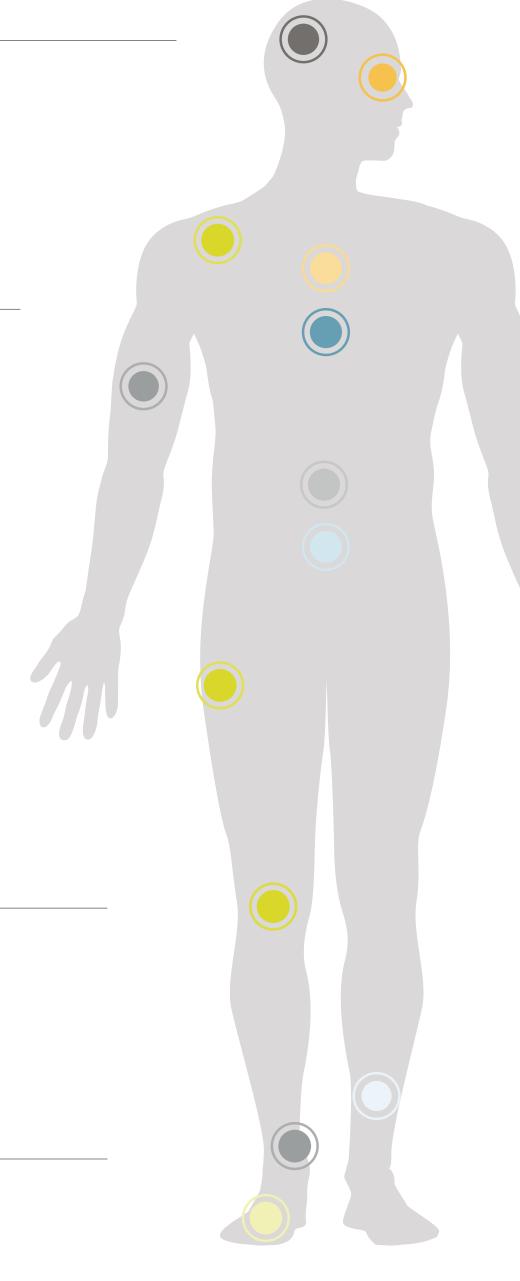
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### **SHORTNESS OF** BREATH

Shortness of breath is one of the most common symptoms of **ATTR-CM**. Patients may feel as if they can't catch their breath during normal activities or have difficulty breathing when lying down.

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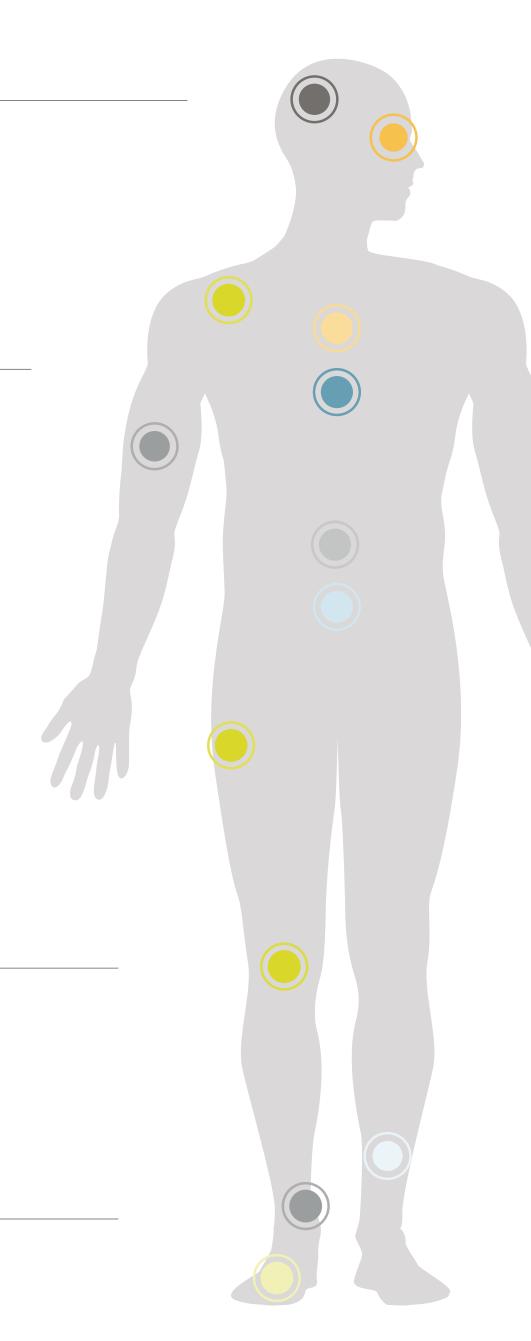
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### **IRREGULAR HEARTBEAT** cardiac arrhythmia

An abnormal heartbeat, also known as cardiac arrhythmia, is a common symptom of ATTR-CM, especially for those with **wild-type ATTR-CM**.

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Stomach issues are often a symptom of ATTR-CM and are mostly associated with hereditary ATTR-CM. These problems can include diarrhea, constipation, nausea, feeling full quickly, or vomiting.

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### **BILATERAL CARPAL TUNNEL SYNDROME** numbness, tingling, or pain in fingers

Patients may be diagnosed with bilateral carpal tunnel syndrome, which causes numbness, tingling, or pain in your fingers. Although it may seem unrelated to heart failure, this is one of the most common symptoms and earliest indicators of **ATTR-CM**, especially wild-type ATTR-CM.

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#### **EYE DISORDERS**

eg, glaucoma

#### SHORTNESS OF BREATH

#### **IRREGULAR HEARTBEAT**

cardiac arrhythmia

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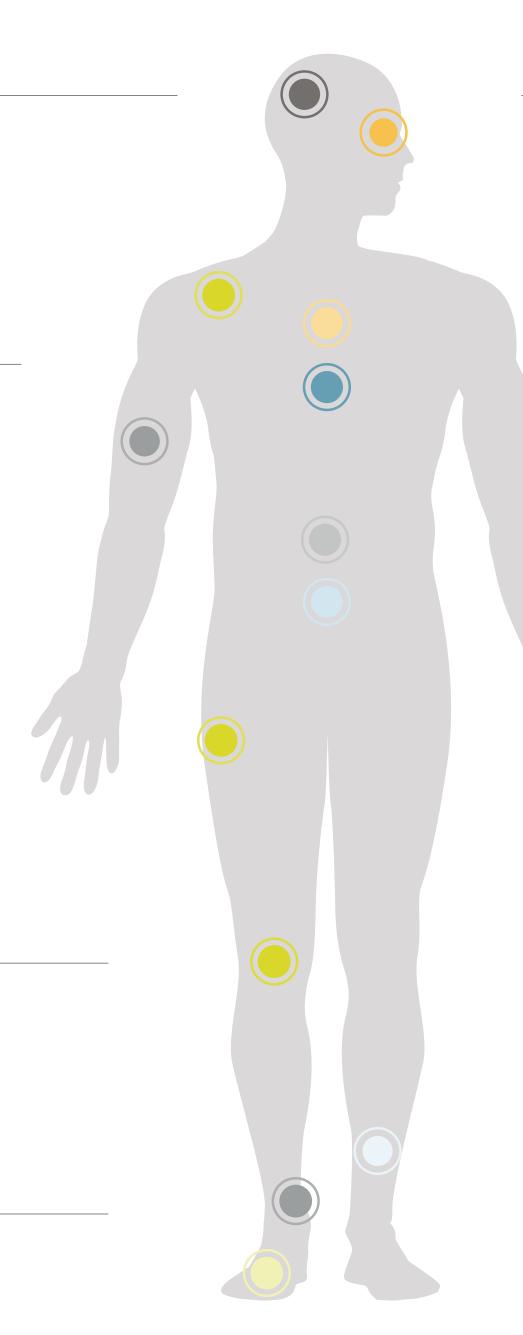
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### SHOULDER, HIP, **AND/OR KNEE PAIN**

**TTR** protein can build up in ligaments, tendons, cartilage, and soft tissue. This can cause joints to become stiff due to the hardening of the soft tissue around the joints, causing pain in the shoulders, hips, or knees. This may require surgery, such as a hip or knee replacement.

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eg, glaucoma

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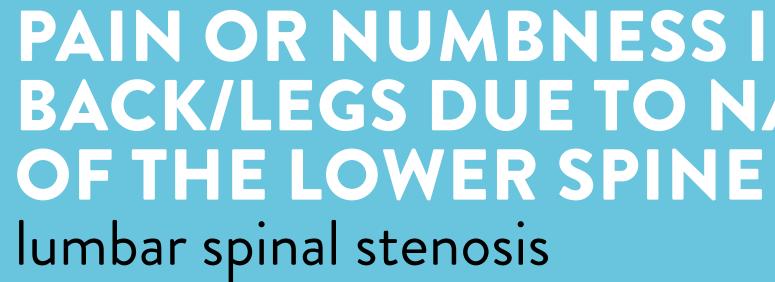
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Lower-back and leg issues may mean that you have lumbar spinal stenosis, which may be a noncardiac sign of wild-type ATTR-CM (wtATTR).

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#### **EYE DISORDERS**

eg, glaucoma

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## PAIN OR NUMBNESS IN LOWER **BACK/LEGS DUE TO NARROWING**



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## DECREASED SENSATION, STRANGE TINGLING, OR PAIN IN TOES OR FEET peripheral neuropathy

Patients with **wild-type or hereditary ATTR-CM** may experience sensory loss, muscle weakness, and pain

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#### **EYE DISORDERS**

eg, glaucoma

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lumbar spinal stenosis

#### **SWELLING IN LOWER LEGS**

peripheral edema

## in their toes or feet, as well as overall balance issues.



**TYPES OF ATTR-CM** 

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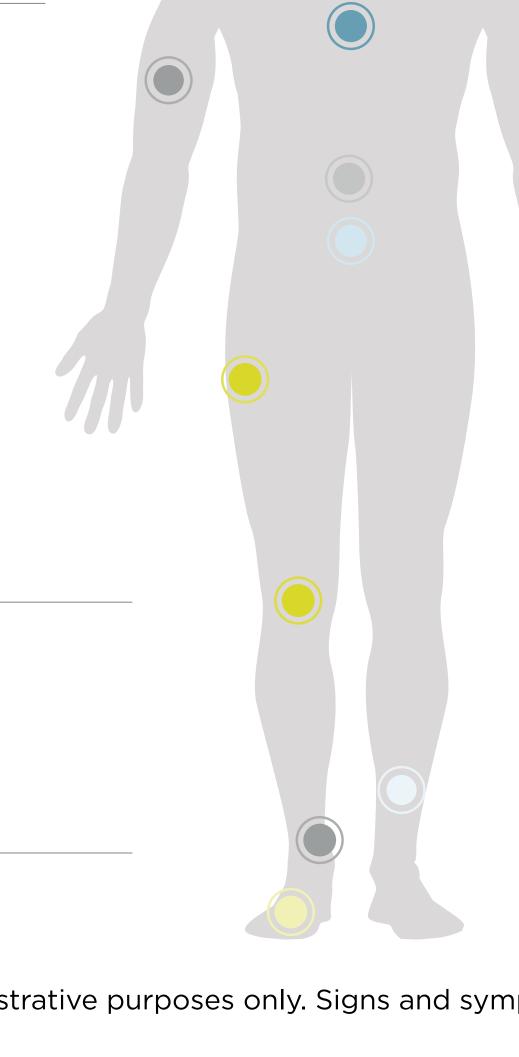
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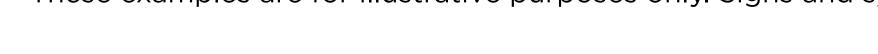
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peripheral neuropathy







### **SWELLING IN LOWER LEGS** peripheral edema

Many patients notice swelling in their lower legs and feet, also called peripheral edema. This can cause the legs and feet to look swollen and puffy. Swelling in the lower legs can be a common symptom of **ATTR-CM**.

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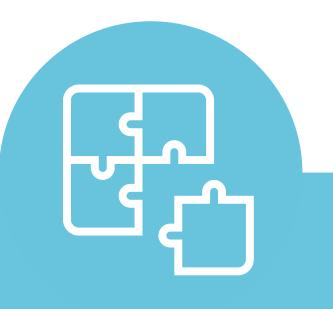
## The road to an ATTR-CM diagnosis can be complex and frustrating

But the more information you have, the better you'll be able to advocate for yourself on that journey.

### TALKING TO YOUR DOCTOR

Advocating for yourself or a loved one can help you get the answers you need to see the full picture.





Underdiagnosis and delayed diagnosis happen because the symptoms of ATTR-CM **mimic those of other more common causes of heart failure** 



Some ATTR-CM patients report visiting **up to 5 different doctors** before receiving the correct diagnosis\*

\*2017 survey conducted by the Amyloidosis Research Consortium and prior to an available treatment option.



Hear from patients about their journey to diagnosis

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HEART TALKS: WATCH HERE >

SUSPECT ATTR-CM?



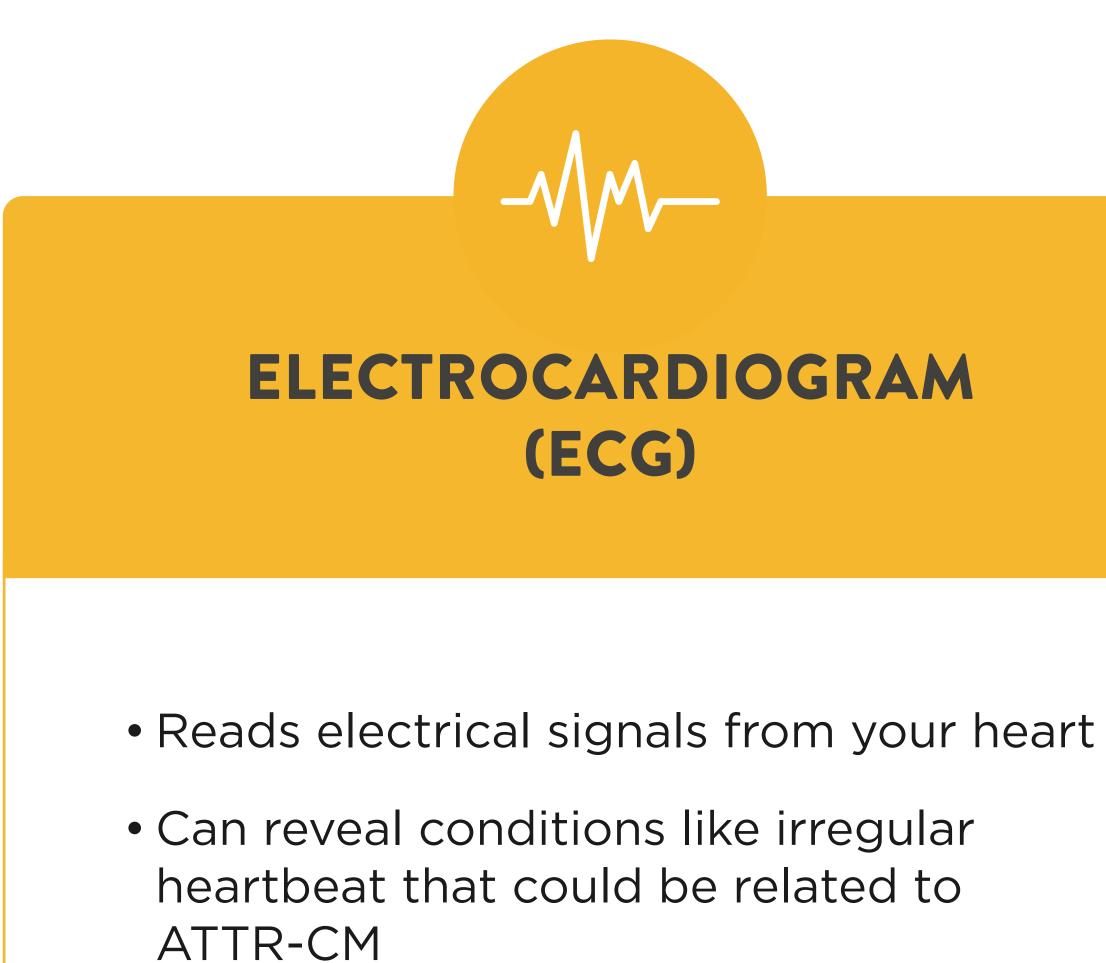
## Initial tests

Your doctor may first order tests to assess how your heart is working and look for signs of ATTR-CM. While none of these tests are typically used to confirm an ATTR-CM diagnosis, they can help your doctor learn more about your heart and determine the need for additional diagnostic testing.

### SUSPECT ATTR-CM?

If your doctor suspects ATTR-CM based on clinical clues, they may conduct certain diagnostic tests for further evaluation.







Your doctor must also rule out another form of cardiac amyloidosis, known as light-chain amyloidosis (AL), using blood and urine tests. This is an important step, as AL amyloidosis and ATTR-CM are managed in different ways.

DIAGNOSING ATTR-CM



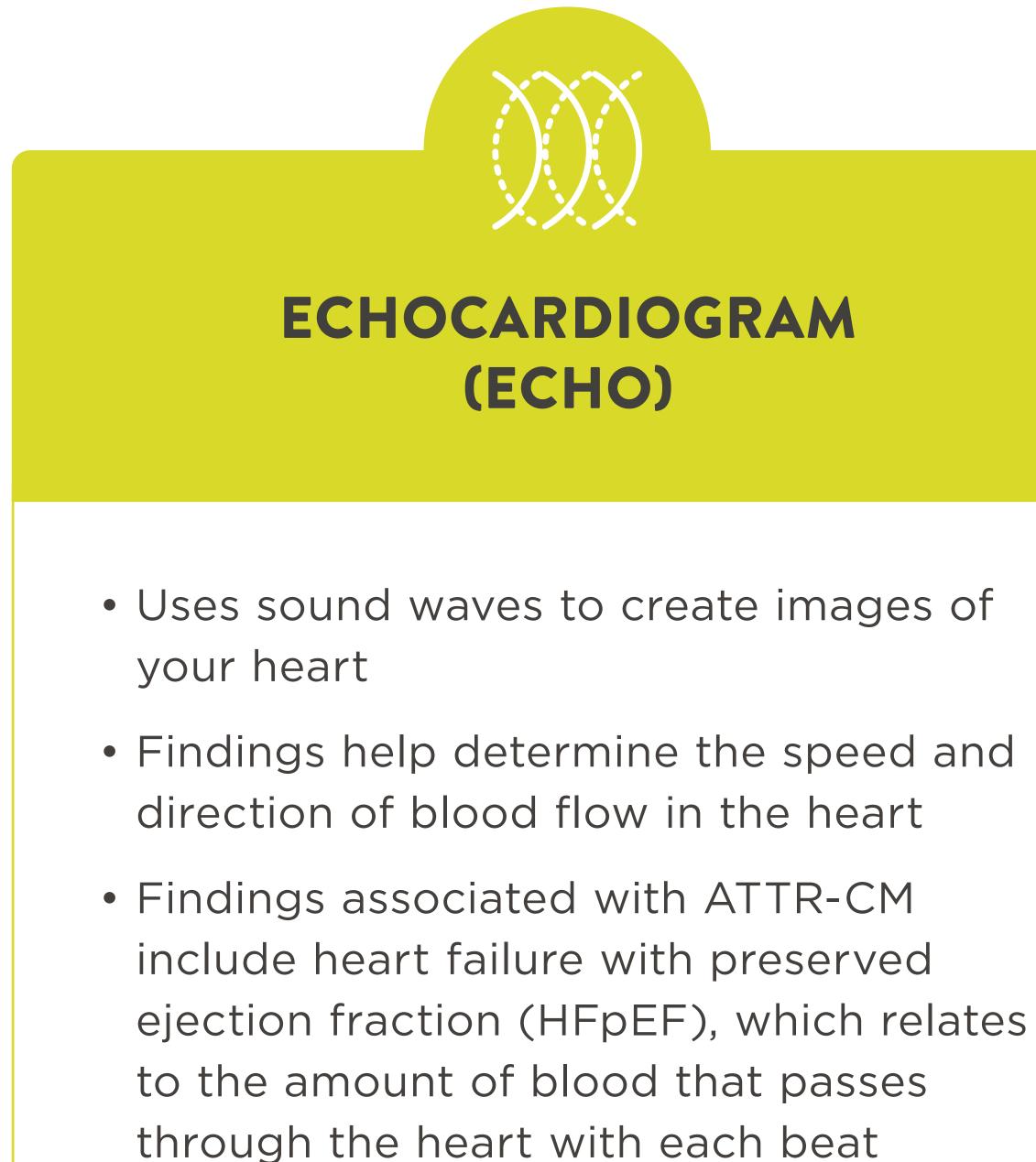
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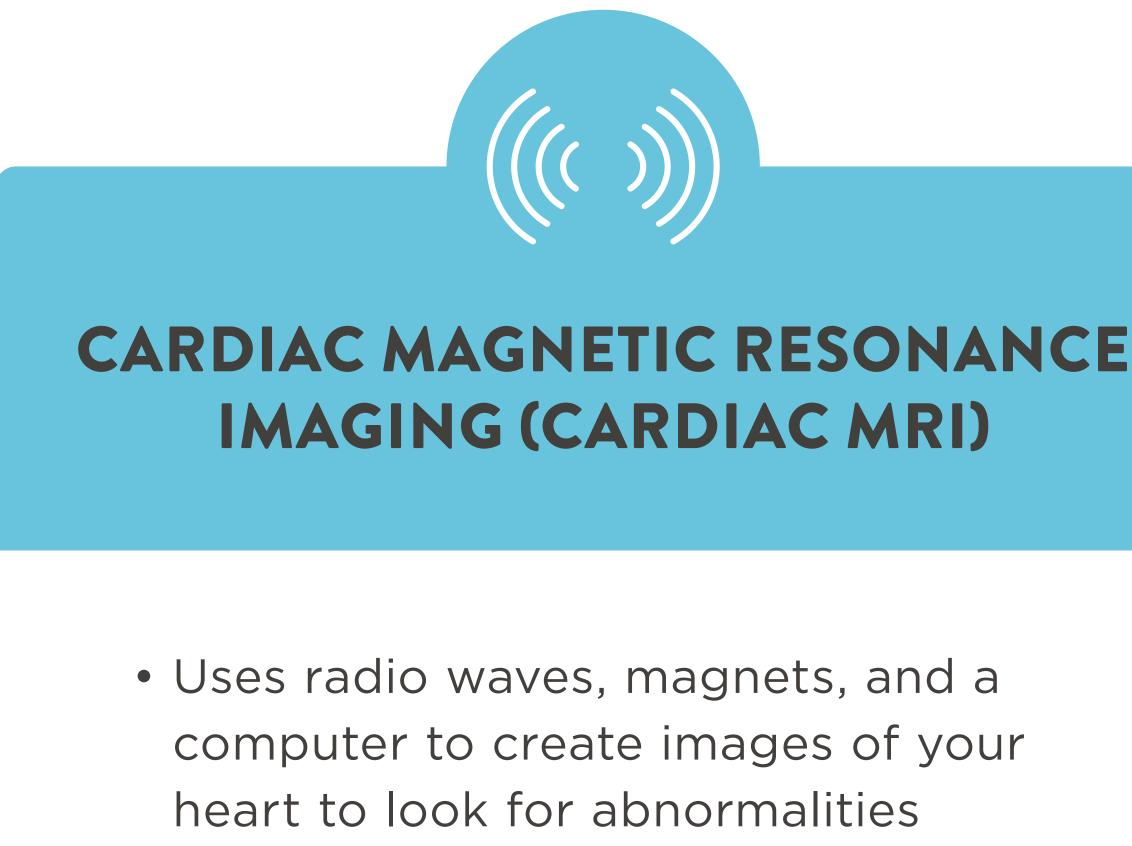
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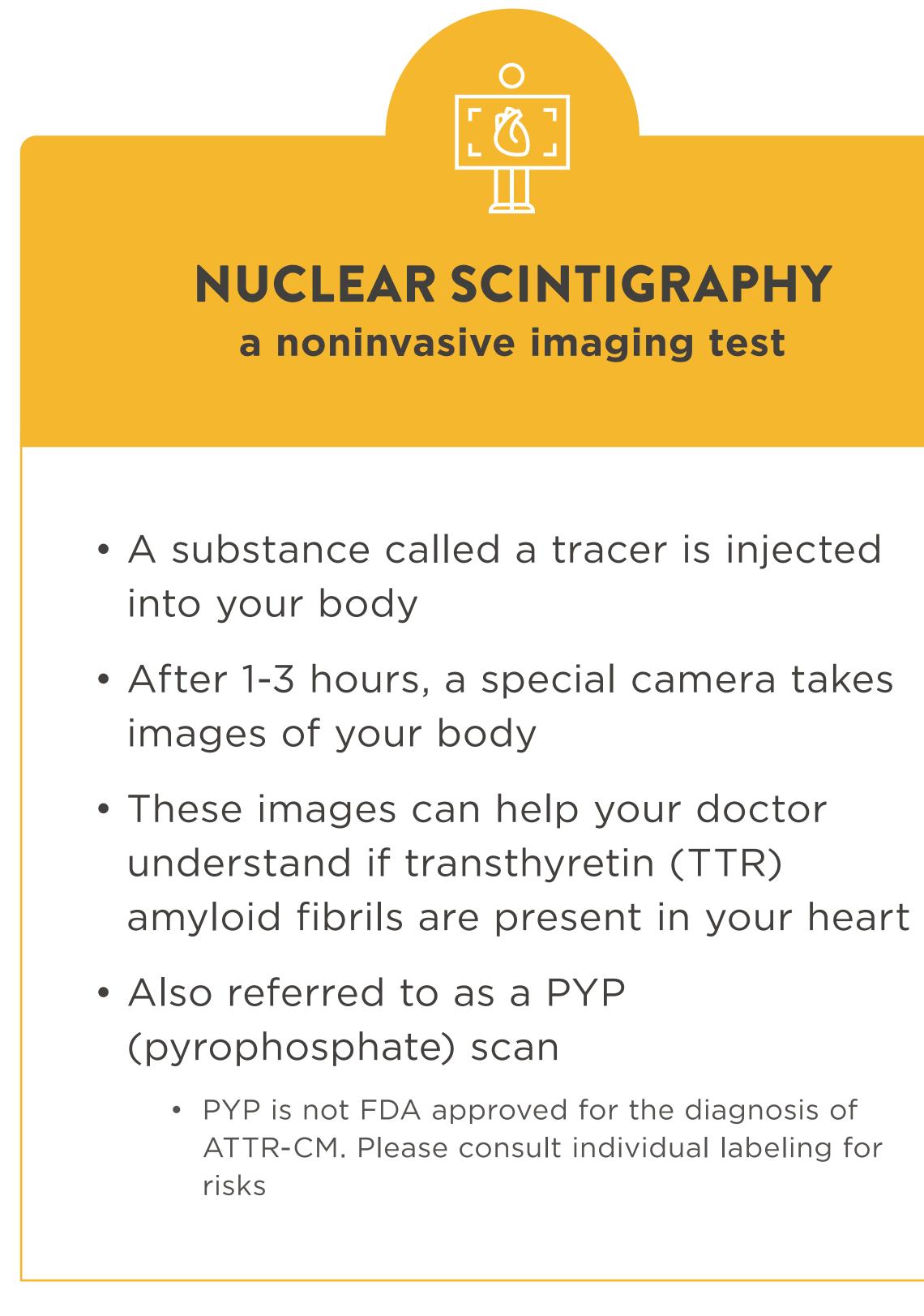


### Diagnostic tests

There are several tests that can help confirm a diagnosis of ATTR-CM or help determine whether you or a loved one are at risk.

### DIAGNOSING ATTR-CM

Once AL amyloidosis is ruled out, your doctor may order additional tests to help diagnose ATTR-CM.











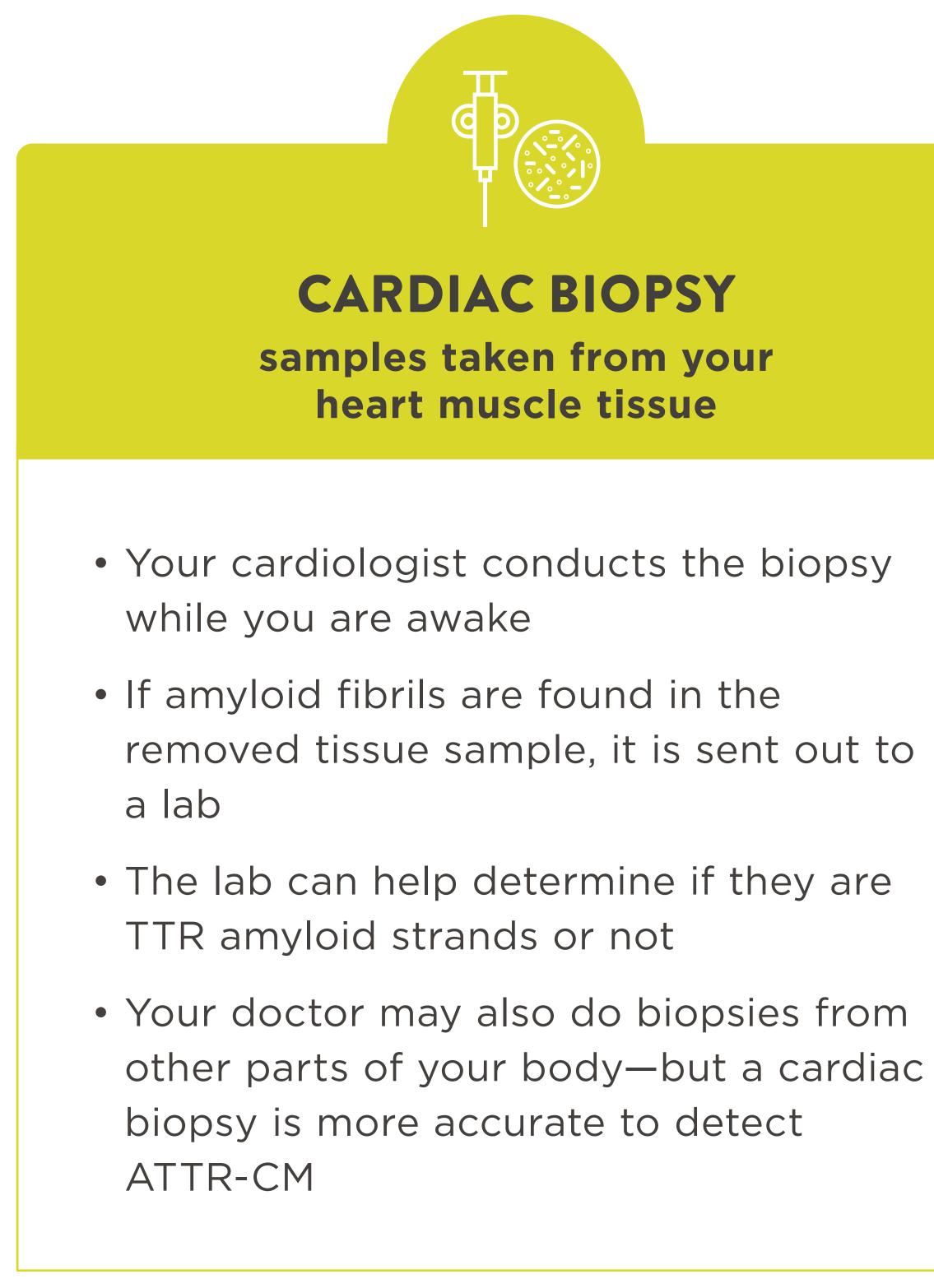
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**SUSPECT ATTR-CM?** 



### **GENETIC TESTING**

if diagnosed with ATTR-CM, genetic testing and counseling are recommended to determine whether you have the wild-type or hereditary form

- Will help confirm or rule out the hereditary form of ATTR-CM (hATTR)
- Determines whether family members are at risk, as the mutation that causes hATTR can be inherited
- Usually performed using blood or saliva samples

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Resources

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# NOT ALONE

Resources are available to help if you or a loved one have been diagnosed with ATTR-CM.



#### **Don't miss out on important updates!**

8

Resources

For Caregivers

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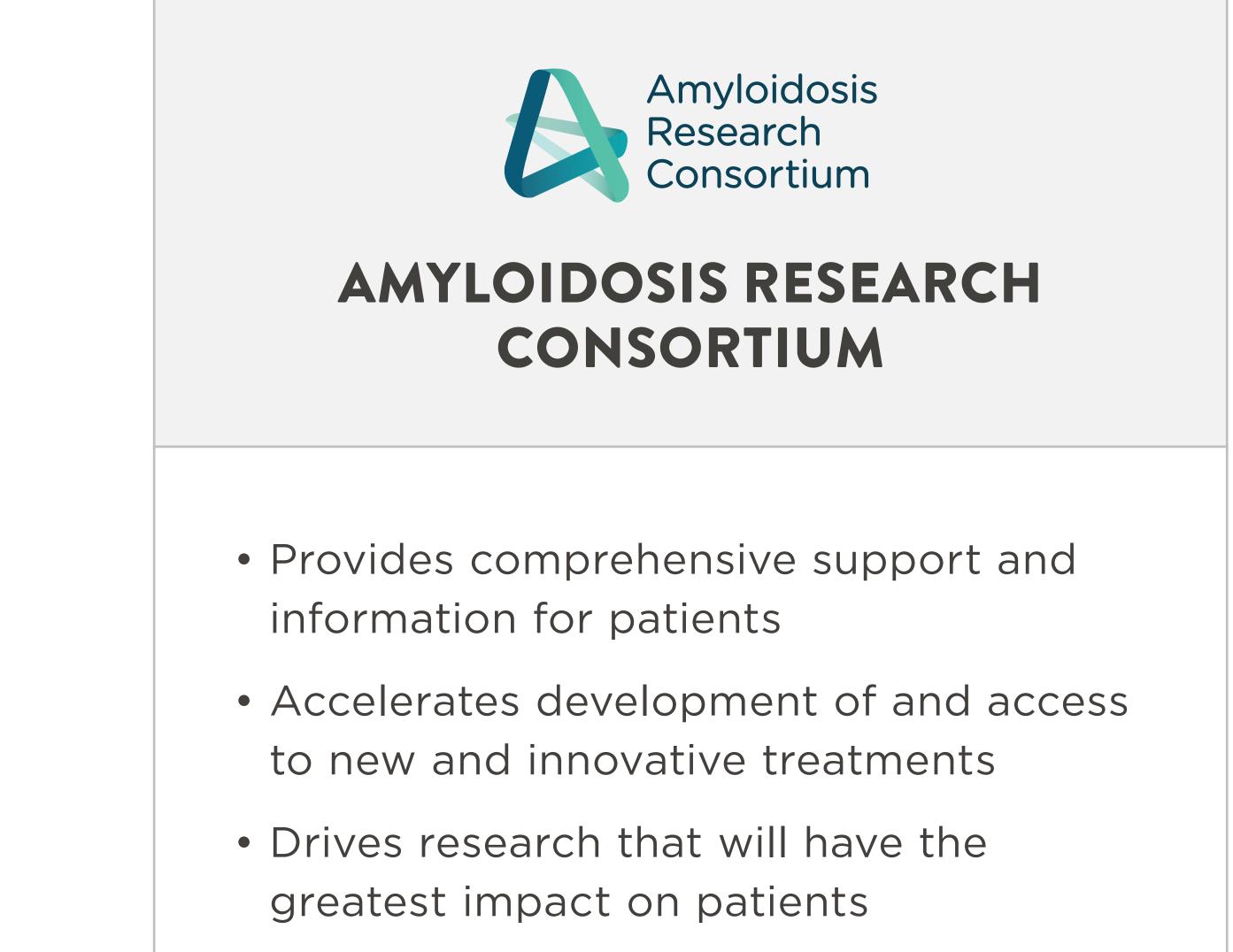


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Resources are available to help if you or a loved one have been diagnosed with ATTR-CM.



#### **Don't miss out on important updates!**

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Resources

For Caregivers

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FOR CAREGIVERS



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#### **Don't miss out on important updates!**

8

Resources

For Caregivers

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Resources are available to help if a loved one has been diagnosed with ATTR-CM.

As a caregiver, you can play a vital role in every stage of your loved one's journey with ATTR-CM, from helping identify early symptoms to assisting your loved one after a diagnosis is confirmed.



## How you can help

### Being your loved one's advocate

It's hard watching Faye go through the struggles that she has. It's not gonna change... how I love her."

-BRAD, Caregiver

• Attend doctor's appointments and take notes • Check in with your loved one about how they're feeling • Talk to their doctor about any symptoms you've noticed Keep track of medical records and appointments Manage dietary needs and physical activity

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Resources

For Caregivers

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SIGN UP FOR UPDATES AND MORE INFORMATION