

# Understanding *Heart Failure*

## A DISCUSSION GUIDE FOR PATIENTS AND CAREGIVERS

### WHAT IS HEART FAILURE?

Heart failure sounds scary, but it does not mean your heart has stopped working – it means that it is not pumping blood as well as it should. When someone has heart failure, their heart muscle becomes weak or stiff and has difficulty pumping enough oxygen-rich blood to meet the body's needs.

This can lead to complications such as:



**PULMONARY OEDEMA**  
(accumulation of fluid in the lungs)



**HEART RHYTHM PROBLEMS,**  
SUCH AS ATRIAL FIBRILLATION



**KIDNEY AND LIVER DAMAGE**



**FLUID BUILDUP IN VARIOUS**  
PARTS OF THE BODY



**HEART PALPITATIONS**

OVER  
**20,000**   
PEOPLE ARE LIVING  
WITH HEART FAILURE IN  
NORTHERN IRELAND.  
THESE NUMBERS  
INCREASE EVERY YEAR

MORE THAN  
**1.4 million**  
PEOPLE IN THE UK ARE  
LIVING WITH HEART  
FAILURE AND AROUND  
**400,000**   
OF THEM ARE NOT  
EVEN DIAGNOSED

IN EUROPE, THE MAIN  
CAUSES OF HEART  
FAILURE ARE  
*coronary artery*  
*disease* AND  
*high blood*  
*pressure* 

### HOW THE HEART WORKS

In a healthy heart, freshly oxygenated blood from the lungs is pumped from the left side of the heart to the body (except the lungs). After the body uses the oxygen, the blood returns to the right side of the heart. From there, it is sent back to the lungs to get more oxygen and flows into the left heart – and the cycle continues. The two main pumping chambers in your heart are called ventricles. They keep everything moving smoothly.

## CAUSES OF HEART FAILURE

Heart failure can be caused by many conditions, including:



**CORONARY ARTERY DISEASE**  
(also referred to as ischaemic heart disease)



**ABNORMAL HEARTBEAT**  
(arrhythmia)



**SEVERE ANAEMIA OR IRON DEFICIENCY**



**HIGH BLOOD PRESSURE**  
(hypertension)



**AMYLOIDOSIS**



**DIABETES**



**CARDIOMYOPATHY**



**CONGENITAL  
(PRESENT FROM BIRTH)  
HEART DEFECTS**



**CHRONIC KIDNEY DISEASE  
AND OTHER LONG-TERM  
CHRONIC DISEASES**



**HEART VALVE DAMAGE**



**LUNG PROBLEMS**  
(severe lung disease or  
a blood clot in the lungs)

## TYPES OF HEART FAILURE

♥ Heart failure can develop over time, with symptoms coming and going and slowly getting worse – this is called **chronic heart failure**.

♥ In other cases, it can happen suddenly and severely. This is known as **acute heart failure** and requires immediate medical attention.

Heart failure can occur on the **left side of the heart** or on the **right side**, with left heart failure being more common. However, when one side fails, usually the other will eventually be affected too.

To understand heart failure, it is important to know about the ejection fraction.

### WHAT IS EJECTION FRACTION (EF)?

The EF is a way of measuring how well the heart is pumping, and it represents the percentage of blood in the left ventricle that is pumped out during each heartbeat. In a healthy heart, a normal EF is between 50% to 70% – not 100% as some might think.

## LEFT-SIDED HEART FAILURE

In this type, the left side of the heart does not work properly, making it harder for the body to get the oxygen-rich blood it needs. There are two types of left-sided heart failure:

1. **Systolic heart failure or heart failure with reduced ejection fraction (HFrEF):** The bottom chamber of your heart, called the left ventricle, is too weak to pump blood out to your body.
2. **Diastolic heart failure or heart failure with preserved ejection fraction (HFpEF):** The left ventricle is stiff and cannot relax appropriately, making it difficult to fill with blood.

## RIGHT-SIDED HEART FAILURE

Right-sided heart failure is usually caused by left-sided heart failure. The freshly oxygenated blood coming from the lungs to the left side of the heart becomes congested in the lungs, due to left-sided heart failure. As a result, there is less room for the blood going from the right ventricle to the lungs, creating a kind of “traffic jam” in the right side of the heart. This makes it harder for the right ventricle to pump well. When people have right-sided heart failure, fluid backing up in their veins may cause swelling in the legs, feet and sometimes the belly.

HEART FAILURE IS  
*more common*  
*in older adults*  
BUT IT CAN  
AFFECT PEOPLE  
OF ALL AGES



HEART FAILURE CAN  
HAVE A *major*  
*impact*  
ON DAILY LIFE



EACH YEAR OVER  
*5,000*  
*hospital admissions*  
IN NORTHERN IRELAND  
ARE RELATED TO  
HEART FAILURE



## SIGNS AND SYMPTOMS OF HEART FAILURE

Heart failure can affect your daily life because you may experience symptoms such as:



SHORTNESS OF BREATH



SWELLING IN YOUR  
LEGS, ANKLES AND FEET



SEVERE  
WEIGHT GAIN



FEELING VERY  
TIRED OR WEAK



PERSISTENT COUGH



BEING UNABLE TO EXERCISE  
OR DO NORMAL ACTIVITIES  
LIKE WALKING UPSTAIRS



INCREASED  
HEART RATE



LACK OF APPETITE  
OR NAUSEA



WHEEZING  
– a whistling sound  
when breathing

## HOW IS HEART FAILURE MEASURED?

Following diagnosis, your heart failure will usually be classified in two ways: by **stage** and by **functional classes**. Understanding both helps guide the right treatment plan and gives a clearer picture of how the condition might impact your daily life.

### STAGES

They go from A to D and describe how much heart failure is present:

#### STAGE A

(At-risk for  
heart failure)

High risk for heart  
failure but no structural  
heart disease\*.

#### STAGE B

(Pre-heart failure)

Structural heart  
disease, but no heart  
failure symptoms.

#### STAGE C

(Symptomatic  
heart failure)

Structural heart  
disease and symptoms  
of heart failure.

#### STAGE D

(Advanced  
heart failure)

Structural heart disease,  
and symptoms that  
cannot be controlled  
despite treatment.

\*Structural heart disease = abnormal heart structure or function.

### FUNCTIONAL CLASSES

They measure how well a person can manage physical activity. There are **four classes**, going from **Class I** – with no limitation of physical activity, to **Class IV**, referring to someone who is unable to carry on any physical activity without discomfort.

## TREATING HEART FAILURE

While heart failure usually cannot be cured, patients may be able to reduce symptoms. Your treatment may include a combination of approaches — discuss with your healthcare provider which medicines, devices, procedures and lifestyle changes are right for you.



**LIFESTYLE CHANGES:** Adopting healthy habits like **eating nutritious foods**, maintaining a **proper weight**, engaging in **regular physical activity**, **reducing sodium** (key component of salt) intake, and **not smoking**, can improve your overall well-being and longevity.



**MEDICATIONS:** Certain medications are targeted to treat the underlying conditions that caused the heart to fail. This could include antihypertensive medicines to reduce high blood pressure, cholesterol-lowering drugs, antiarrhythmics to control the heart's rate or rhythm, and so forth.



**DEVICES:** These include **pacemakers** for controlling heart rate and rhythm, **implantable cardiac defibrillators (ICDs)** that deliver a shock to the heart to correct life-threatening arrhythmia and **left ventricular assist devices (LVADs)** which help pump blood from the heart's left lower chamber to the rest of the body and may be used either as a temporary support while waiting for a heart transplant or as a long-term treatment.



**HEART TRANSPLANT SURGERY:** In severe cases, when all other treatment avenues have failed to adequately improve the heart's condition, a heart transplant may be the only option.



**OTHER PROCEDURES:** To treat underlying cardiac conditions such as coronary artery disease, heart valve disease, or atrial fibrillation.



**CARDIAC REHABILITATION:** A supervised comprehensive program led by trained health professionals. It includes exercise, education, and support to help people with heart problems, such as heart failure, to feel better, get stronger, and lower the risk of future heart issues.

## QUESTIONS TO ASK YOUR HEALTHCARE PROVIDER

- ✓ What caused my heart failure?
- ✓ How serious is my heart failure?
- ✓ What stage and class is my heart failure?
- ✓ What is my ejection fraction?
- ✓ What could happen if I do not do anything about my heart failure?
- ✓ What changes should I make to my diet and physical activity?
- ✓ Are there medications that can help me feel better?
- ✓ What treatment options do I have, and what are the risks and benefits of each?
- ✓ What signs or symptoms should I look for to let me know when to get medical help right away?



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