## DISCUSS ALL TREATMENT OPTIONS WITH YOUR DOCTOR.

Your Doctor can describe the risks and benefits and together you can decide which treatment option is right for you.

If you have significant, symptomatic tricuspid regurgitation, explore your treatment options.

The right treatment can help you feel better and improve your quality of life.



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# UNDERSTANDING TRICUSPID REGURGITATION

### **IMPORTANT INFORMATION**

About Significant, Symptomatic, Tricuspid Regurgitation and Your Treatment Options



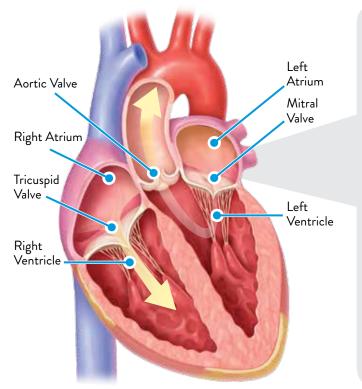
## UNDERSTANDING YOUR HEART

### HOW YOUR HEART WORKS

Your heart beats thousands of times per day, pumping dozens of gallons of blood each hour. It pumps blood through your lungs, where the blood is replenished with oxygen, and pumps it back out to the rest of your body.

The heart has four chambers; the upper two chambers are called the **right atrium** and **left atrium**, and the lower two are called the **right ventricle** and **left ventricle**.

**Heart valves** are the doorways between these chambers. They open to let blood pass from one chamber to the next, closing quickly between heartbeats so blood does not flow backward.



Note: pulmonary valve not shown

### SYMPTOMS OF TRICUSPID REGURGITATION CAN INCLUDE:

- Shortness of breath
- Fatigue or declining exercise capacity
- Swollen feet, ankles, abdomen, or neck
- Lightheadedness

Left untreated, tricuspid regurgitation may lead to right heart failure and eventually death

## THE TRICUSPID VALVE AND TRICUSPID REGURGITATION

The **tricuspid valve** is the valve between the right atrium and right ventricle of your heart. In a normally functioning tricuspid valve, blood flows in a single direction between the right atrium and right ventricle. When your tricuspid valve's leaflets (or flaps) do not close properly, some blood flows backward through the valve back into the right atrium. This is called tricuspid regurgitation (or TR).

To compensate and keep blood flowing through the body, the right ventricle pumps harder. This strain can lead to other heart complications.



### WHAT IS TRICUSPID REGURGITATION?

Tricuspid regurgitation is caused by the leaflets of the valve not closing properly. There are many causes of tricuspid regurgitation including:

- Left valve disease (aortic or mitral)
- Left ventricle dysfunction
- Pulmonary hypertension
- Atrial fibrillation
- Pacemaker lead

You may have one, or more than one of these reasons. If you have tricuspid regurgitation that allows a very large amount of blood to backflow into your heart, your doctor may diagnose you as having tricuspid regurgitation.

If you also have symptoms of congestive heart failure or other related heart conditions, your disease may be classified as significant, symptomatic tricuspid regurgitation.



Normally functioning tricuspid valve



Improperly functioning tricuspid valve allowing blood to flow back into tricuspid valve and right atrium (tricuspid regurgitation)

## WHAT ARE YOUR TREATMENT OPTIONS?

Treatment for your tricuspid regurgitation depends on how severe it is and how sick you are. There are medications available to reduce symptoms, such as fluid buildup in the lungs and legs, but no medication addresses the underlying problem with your tricuspid valve.

Tricuspid regurgitation can only be treated in two ways, tricuspid valve surgery or transcatheter tricuspid valve repair. You will be evaluated by a team of heart doctors to determine which option is right for you.

#### TRICUSPID VALVE SURGERY

There are two types of surgery to treat tricuspid regurgitation: tricuspid valve repair or tricuspid valve replacement. Tricuspid valve surgery is most often performed when surgery is being done on the left side of the heart.

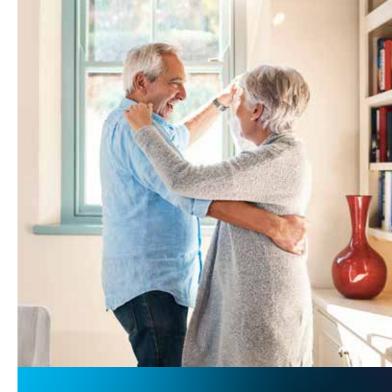
### TRANSCATHETER TRICUSPID VALVE REPAIR

Transcatheter tricuspid valve repair (TTVR) is a minimally invasive procedure that may be an option for patients who are too sick for surgery (also referred to as being high risk

for surgery). Unlike surgery, this procedure does not require opening the chest and temporarily stopping the heart.

In the TriClip™ procedure, the TriClip implant will be placed on two leaflets or more of your

tricuspid valve. This reduces tricuspid regurgitation, and the valve continues to open and close on either side of the TriClip implant, allowing blood to flow through. Many times, more than one TriClip implant will be used on your tricuspid valve leaflets.



## TREATMENT CAN LEAD TO A MORE COMFORTABLE, ACTIVE LIFE.

Please share this guide with your family, and discuss all treatment options with your doctor.

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