

Transcatheter Aortic Valve Replacement (TAVR)

This handout explains what a transcatheter aortic valve replacement (TAVR) is and what to expect if you have one.

TAVR is a procedure to place a new valve, inside the aortic valve in your heart without open heart surgery.

TAVR is for patients who have a narrow opening in their aortic valve (aortic stenosis). The valve is narrowed due to calcium build-up. When this happens, the valve does not open and close well. This makes the heart work harder and in time decrease its function.

To have a TAVR you must:

- Have severe build-up of calcium on your valve.
- Have a valve size that is not too big or too small.
- Be able to take medicine to thin your blood after the procedure.

Testing

To find out if a TAVR is the best option for you if you have a narrow aortic valve, there are a few steps.

You meet with a heart surgeon and a heart doctor called an interventional cardiologist. They will talk with you about your options.

You have tests to help us learn more about you. These tests include:

Cardiac catheterization. This test helps your doctor get more details about how your heart is working. You get medicines to help you relax and go to sleep for the test. If a blockage is found, a stent may be placed.

Pulmonary function testing. This is a test that measures how well your lungs work.

Cat scan (CT) angiogram of your chest, abdomen, and pelvis. Your doctor may wish to have this test done with or without IV contrast (dye). This test is done to:

- Look at the size and shape of your blood vessels.
- Look for any blockage in the large blood vessels from your chest to your legs.
- Get precise size of your aortic valve.

The Dentist

An infection in your mouth could lead to infection of your new valve. If you have infected, broken, or damaged teeth you need approval from your dentist that your mouth is free from infection, and it is ok to have a TAVR.

Once we have the information we need, we discuss it at our weekly meeting. We decide what we think would be best for you. The nurse coordinator will call you with this plan and schedule any other visits that you may need.

The Day of the Procedure

On the day of your TAVR, you will take the F elevators to the third floor and go to the Cardiac Cath Lab (F6/3). Once there, you will meet your nurse, doctor and other staff. They will answer your questions and make sure you are comfortable.

During the Procedure

We will watch you closely. You will have:

- Patches placed on your chest to show your heart rhythm.
- A blood pressure cuff on your arm.
- A plastic clip on your finger to check your heartbeat and oxygen levels.
- You will get medicine to put you to sleep.
- Once you are sleepy, your doctor puts small tubes in many arteries.
- One tube will go up to your heart.
- A temporary pacemaker wire is placed to help your heart beat correctly during the procedure.
- A balloon is inflated in your narrow valve to open it. Then the new valve, is enlarged inside your current valve.
- Your doctor checks to make sure the new valve works.
- The tubes are taken out and the puncture site (where the tube went in) is closed.

After Your Procedure

- You will spend the night at the hospital.
- We will watch you closely and help control any pain you may have.
- You will have an IV and heart monitor until you go home.
- You can go for a walk as soon as the puncture site is stable. Your nurse will tell you when you can walk.
- A team member from cardiac rehab will come see you and help you get set up with rehab close to home. Cardiac Rehab starts 2-3 weeks after the TAVR procedure.

Your health care team may have given you this information as part of your care. If so, please use it and call if you have any questions. If this information was not given to you as part of your care, please check with your doctor. This is not medical advice. This is not to be used for diagnosis or treatment of any medical condition. Because each person's health needs are different, you should talk with your doctor or others on your health care team when using this information. If you have an emergency, please call 911. Copyright ©10/2022. University of Wisconsin Hospitals and Clinics Authority. All rights reserved. Produced by the Department of Nursing. HF#740