

HEART VALVE:

Repair and replacement options for valvular heart disease

New tech and techniques include minimally invasive procedures

What treatment options are available for heart valve disease?

OHSU's heart valve experts treat all forms of heart valve disease, including regurgitant and stenotic lesions, with cutting edge approaches and technologies. These include valve repair and replacement through minimally invasive and transcatheter approaches. In fact, OHSU offers every form of percutaneous and surgical intervention for heart valve repair and replacement along with other complex cardiac procedures.

In addition to traditional valve surgery, we have expertise in minimally invasive and transcatheter valve repair and replacement therapies. Through OHSU, access the most advanced options to repair or replace cardiac valves such as:

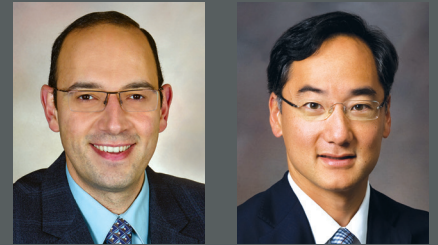
- Transcatheter aortic valve replacement (TAVR)
- Percutaneous pulmonary valve (Melody Valve) replacement
- Mitral valve repair with MitraClip®
- Minimally invasive mitral valve repair and replacement
- Valve sparing aortic root replacement

Transcatheter aortic valve replacement (TAVR)

The TAVR procedure replaces aortic heart valves by passing the valve from a blood vessel in the groin, eliminating the need for open heart surgery. TAVR is indicated for patients with severe aortic valve stenosis, who are higher risk candidates for surgical aortic valve replacement. OHSU is the only center in the region that offers TAVR with both the Edwards SAPIEN3® and the Medtronic Evolute® System.

Percutaneous pulmonary valve (Melody Valve) replacement

The Medtronic Melody Transcatheter Pulmonary Valve is inserted by catheter to replace a narrow or leaky pulmonary valve in children and adults who previously have undergone surgery to correct a congenital heart defect. OHSU was the first medical



A word from the co-directors

For patients with advanced or complicated heart valve disease, our complex heart valve clinic provides care through a multidisciplinary team of cardiac surgeons, cardiologists and advanced heart imaging specialists. Having the relevant specialists all in one clinic allows the team to consult with the patient and make a treatment recommendation within a single patient visit.

In addition to traditional methods, our team has vast expertise in minimally invasive and transcatheter procedures for patients with all forms of valvular heart disease. These options augment our comprehensive surgical heart disease program.

If you have any questions or would like to consult with our team, please contact us at **503-494-4567** or **800-245-6478**.

Sincerely,

**Firas Zahr, M.D. and
Howard Song, M.D., Ph.D.**



**KNIGHT
CARDIOVASCULAR
Institute**

center in Oregon to implant a Melody transcatheter pulmonary valve and has the most experienced surgeons with this device in the region.

Mitral valve repair with MitraClip®

MitraClip is a permanent implant that attaches to the mitral valve leaflets, allowing greater closure and reducing valve leakiness. It is inserted by a catheter through the femoral vein and guided into the heart, where it is positioned by grasping both leaflets of the mitral valve. MitraClip® is used for patients at high risk for surgery, who have significant symptomatic degenerative mitral regurgitation.

Minimally invasive mitral valve repair and replacement

OHSU surgeons have extensive experience with mitral valve repair and are successfully able to repair instead of replace valves in 95 percent of properly selected patients. The standard approach for this procedure is through a smaller incision over the right side of the chest, which eliminates the need for a midline sternotomy incision, thereby allowing faster recovery and return to an active lifestyle.

Clinical trials

OHSU is a trial site for the COAPT trial for treatment of functional mitral regurgitation with the MitraClip® system for patients with heart failure and severe mitral regurgitation.

OHSU is also a trial site for treating patients with low surgical risk with TAVR using the Medtronic Evolute valve. With this trial, TAVR can be an option for all patients with severe aortic stenosis regardless of their surgical risk.

Indications for referral

Patients presenting with symptomatic advanced valvular disease that requires either repair or replacement, including:

- Aortic insufficiency and aneurysm-related insufficiency
- Aortic stenosis
- Mitral regurgitation
- Mitral stenosis
- Rheumatic heart disease
- Degenerative prior aortic or mitral valve prosthesis
- Tricuspid regurgitation
- Pulmonic stenosis or regurgitation
- Perivalvular leak

OHSU's complex heart valve team

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Co-director
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- Stephen Heitner, M.D.
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- Jai Raman, M.D., Ph.D.
- Victor Rodriguez, M.D.
- Kevin Wei, M.D.
- Katherine (Kate) Rajotte, P.A.
- Ayrica Bennett, R.N.

Consults and referrals

If you have a patient who may benefit from this treatment, or to consult with our team, please call **800-245-6478**. To refer a patient, please fax **503-346-6854**.

www.ohsuknightheart.com