



Heart Valve Disease Therapies
THE NEW FRONTIER.



PeaceHealth

Sudeshna Banerjee, MD

Medical Director, Comprehensive Valve Program

Oregon Heart and Vascular Institute

PeaceHealth Sacred Heart Medical Center

at Riverbend



Welcome



Summer Meyer,
MBA, LMT
Certified Health Coach



Please join in

- Vote in the polls
- Ask questions
- Complete the survey

Your speaker

- Attended medical school at the University of Missouri
- Completed residency at Case Western Reserve University
- Completed fellowships in cardiology and interventional cardiology at Barnes-Jewish Hospital in St. Louis, MO



**Sudeshna
Banerjee, MD**

*Medical Director, Comprehensive
Valve Program*

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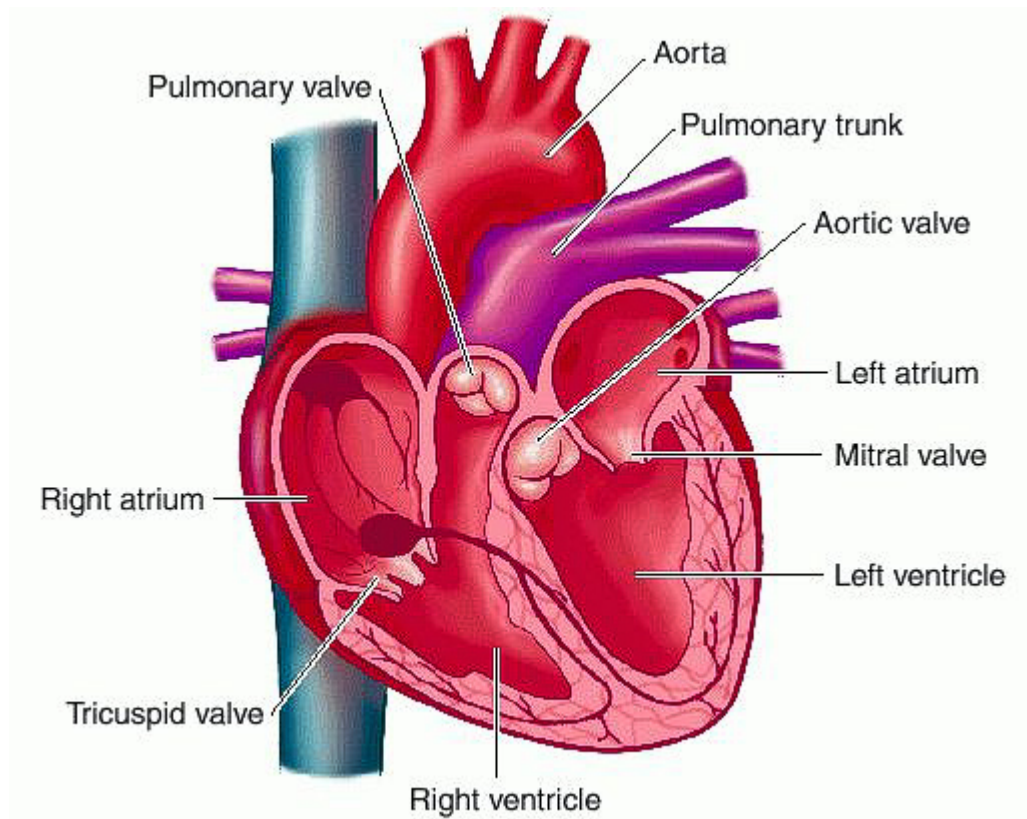


What is valvular heart disease?

Heart valve disease occurs when your heart's valves do not work the way they should.



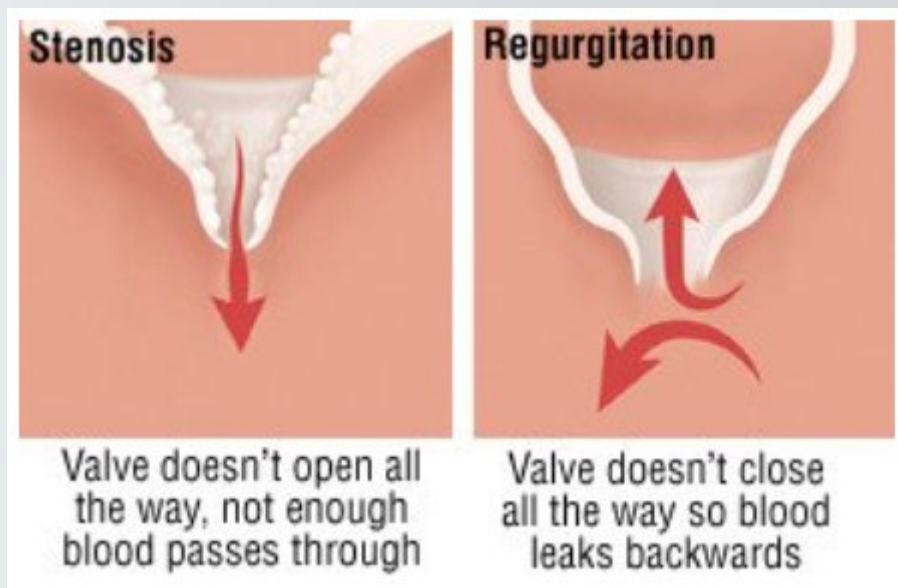
Heart anatomy





Two major heart valve disease categories:

Stenosis vs. Regurgitation





Valvular heart disease types

★ Aortic Stenosis

- Aortic Regurgitation
- Mitral Stenosis

★ Mitral Regurgitation

- Tricuspid Regurgitation
- Also: Tricuspid Stenosis, Pulmonary Stenosis, Pulmonary Regurgitation



Poll

Which heart condition concerns you most?

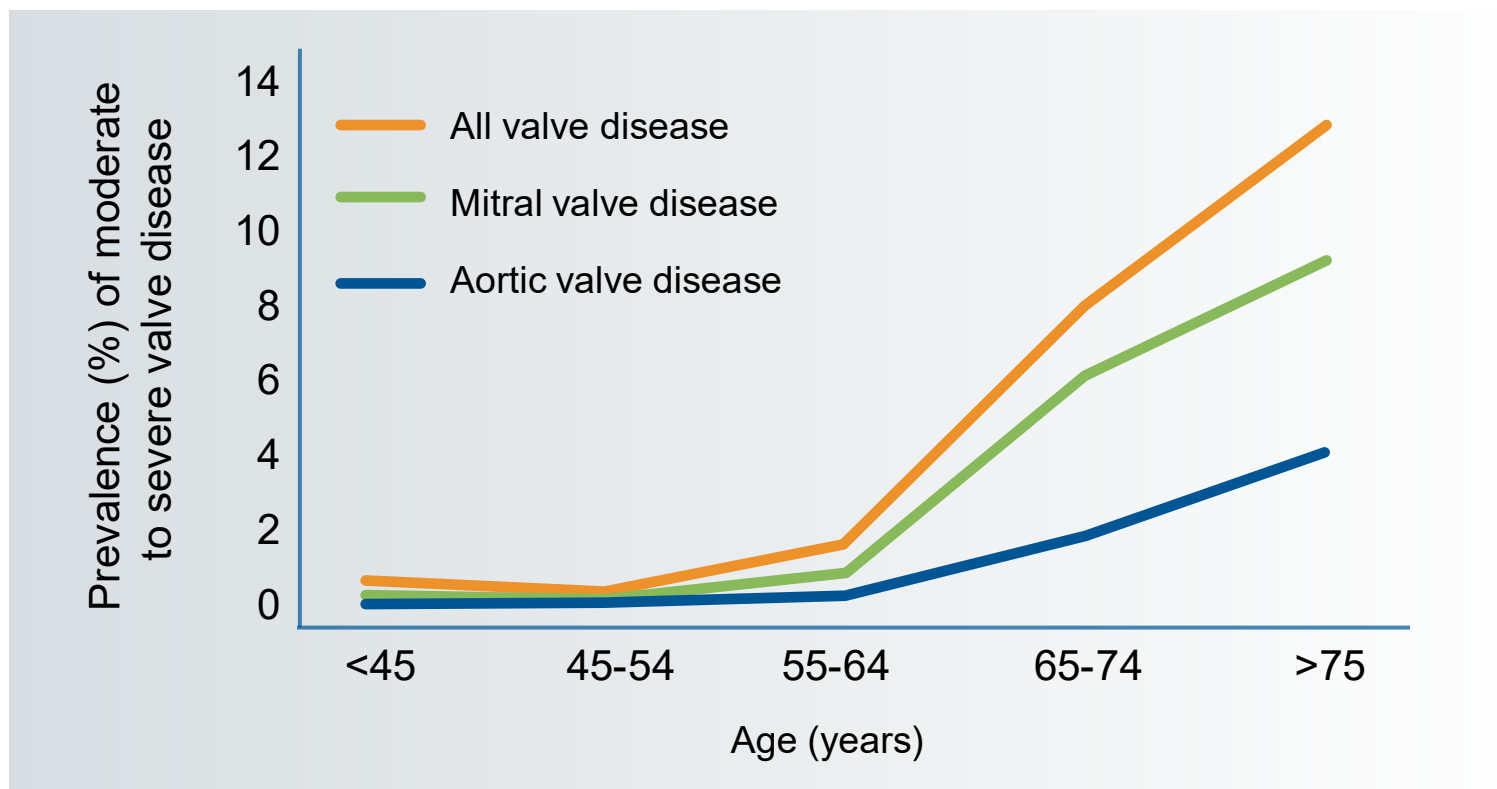
- A. Aortic Stenosis
- B. Mitral Regurgitation
- C. Other heart condition
(type in the chat)
- D. None of the above
(I have no concerns)





Heart valve disease

Increases with age



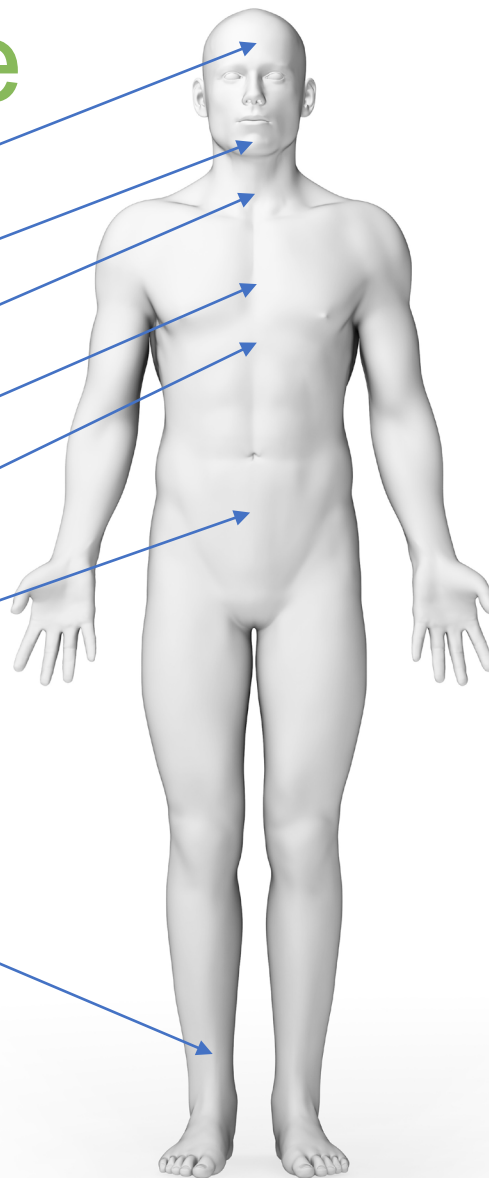
Almost 10% over age 75



Heart valve disease

Signs and symptoms

- Dizzy or lightheaded
- Cough
- Short of breath
- Chest pain
- Chest fluttering
- Abdominal fullness
- Leg or ankle swelling
- Fainting
- Fatigue or weakness
- “I am just getting old”





Heart valve disease

See your doctor

- Murmur
- Chest pain
- Breathing problems
- Fluid buildup
- Fainting





Testing



ECG



Stress test



Chest x-ray



CT or MRI



Echocardiogram

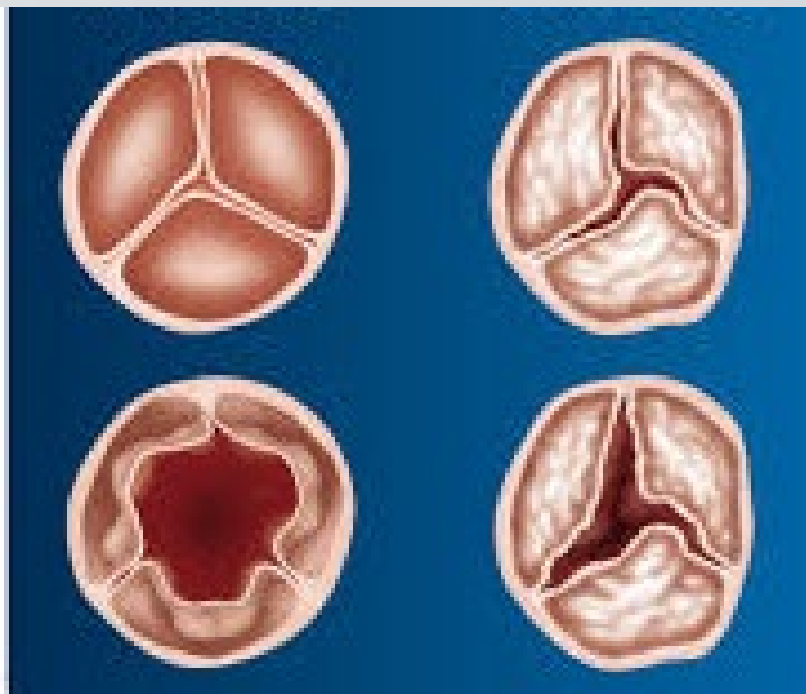


Blood tests



What is aortic stenosis?

- Stiffening and narrowing
- Decreased valve opening
- Less blood flow to the body and organs
- Associated with aging



Healthy
aortic valve

Diseased
aortic valve



Aortic stenosis therapies

Treatment plan: Tailored to you

- Lifestyle modifications
- Regular checkups and monitoring
- Medication management
- ★ Minimally invasive **TAVR** procedure
- Open heart aortic valve replacement surgery



Poll

How are you currently caring for your heart?

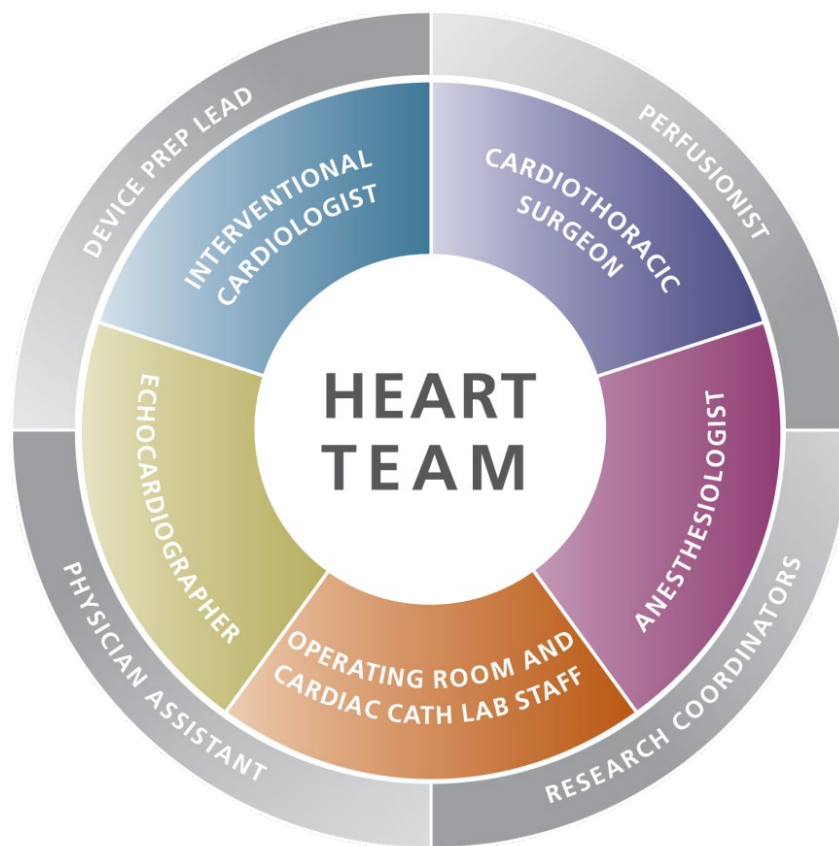
- A. Diet, exercise, prevention or education
- B. Regular exams and evaluations by doctor
- C. Heart medications/prescriptions
- D. Planning a heart procedure or surgery
- E. Other (type in the chat)





PeaceHealth's multidisciplinary heart team approach

- Patient selection
- Procedure planning
- Patient treatment
- Post-operative care



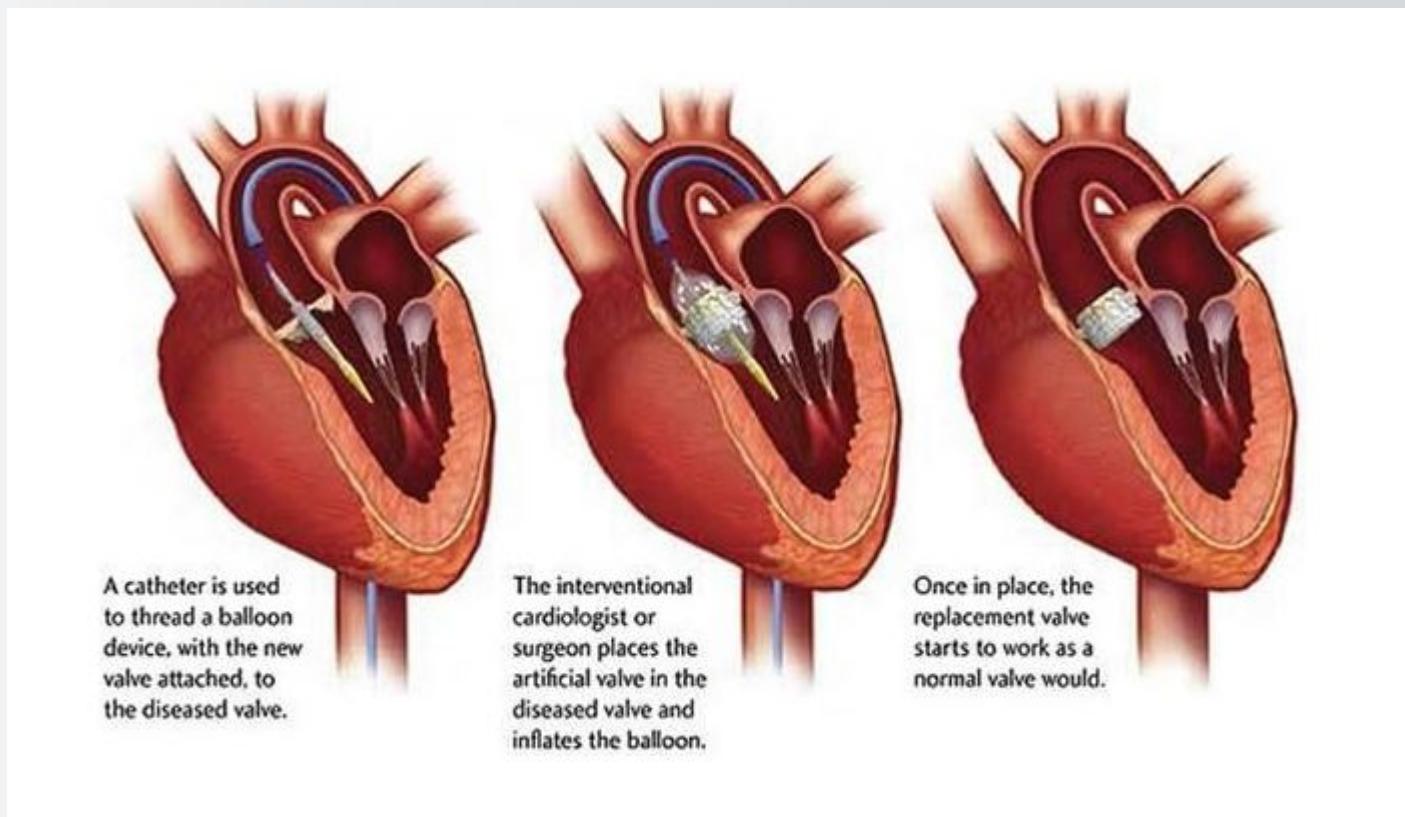


TAVR: A futuristic aortic valve replacement procedure

- Less-invasive than open-heart surgery
- Balloon-expandable valve design for easy and accurate valve deployment
- Outcomes compare favorably to conventional open-heart valve replacement surgery
- Recent advances like Sentinel (“protected TAVR”) provide additional procedural safety



How the TAVR procedure is performed



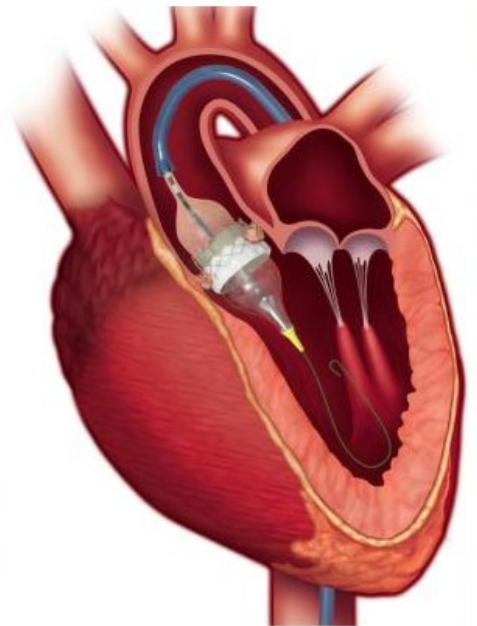
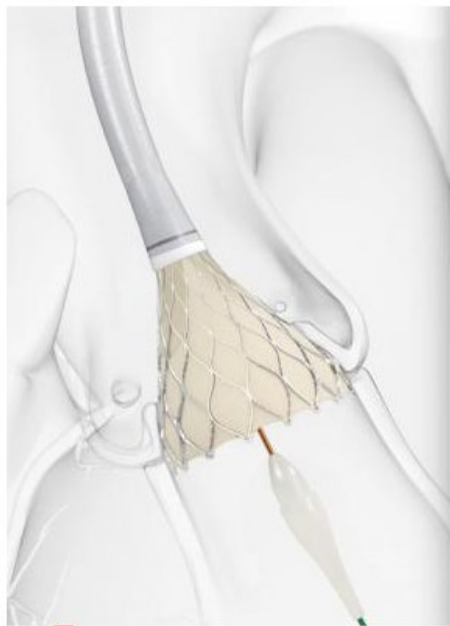


A closer look at TAVR

FEATURE | HEART VALVE TECHNOLOGY | AUGUST 16, 2019 | JEFF ZAGOUDIS, ASSOCIATE EDITOR, AND DAVE FORNELL, EDITOR

FDA Approves TAVR for Low-risk Patients Creates A Paradigm Shift in Cardiology

FDA Approves Sapien 3, CoreValve Evolut TAVR valves for low-risk patients, TAVR now available for all patients with severe, symptomatic aortic stenosis





TAVR Train



Identify severe aortic stenosis

- PCP
- Cardiologist

TAVR testing

- CTA
- Carotid duplex
- Lung test
- Coronary angiogram
- Labs

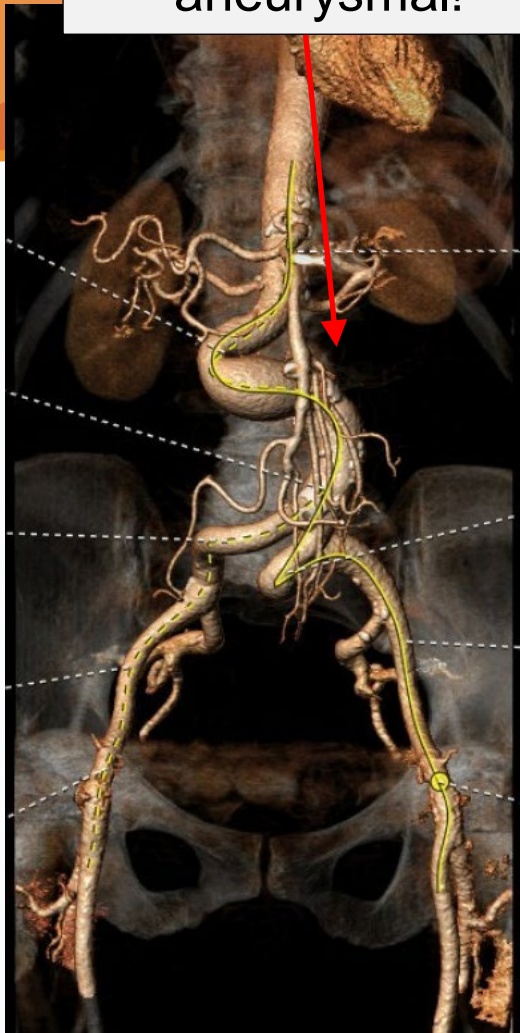


What takes a person off the “train”?

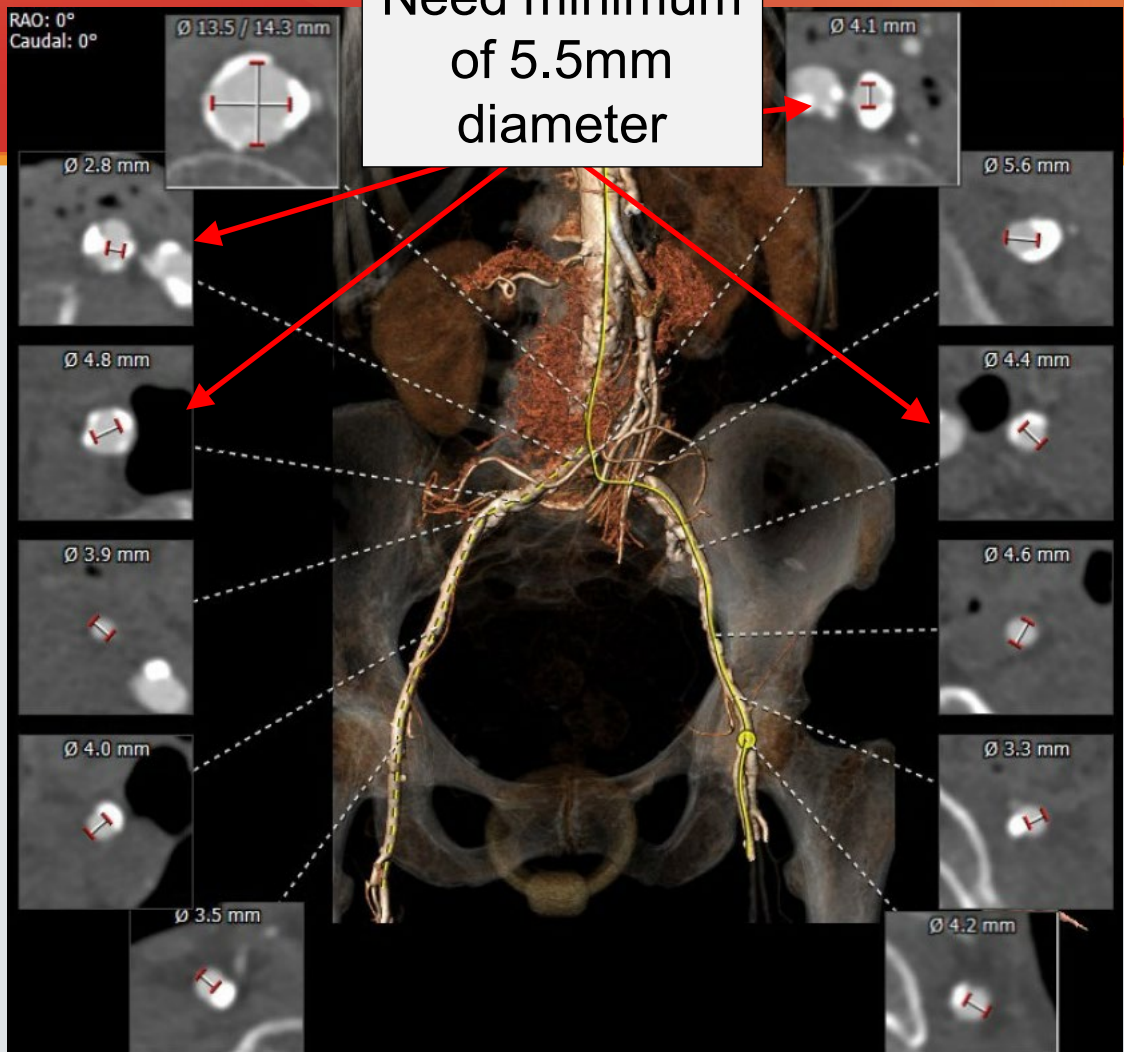
- Too many other medical problems
- Valve isn't severe
- Patient choice



Too tortuous and aneurysmal!



Too small.
Need minimum
of 5.5mm
diameter





TAVR procedure: Today

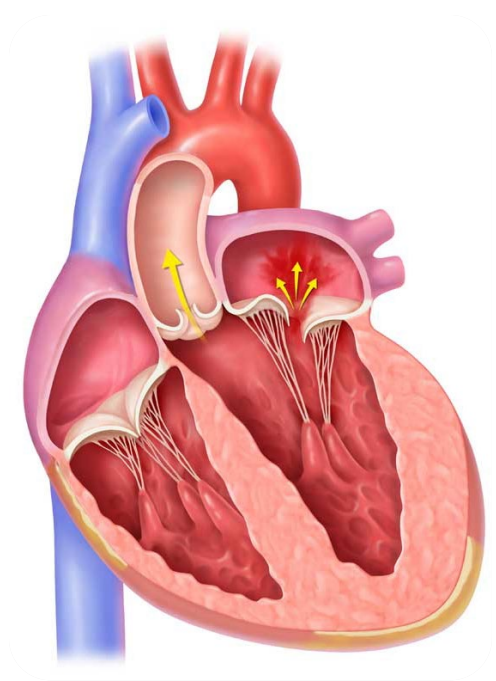
5-10% risk of needing a permanent pacemaker post procedure.

1-2% risk of stroke.

1-2 days for length of stay.

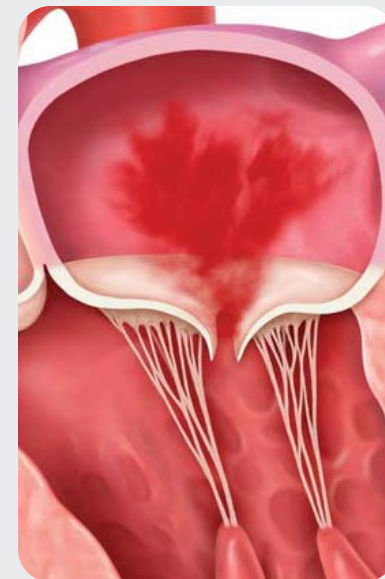
Valves are **Edwards Sapien** (bovine or cow tissue);
Medtronic Evolut (porcine or pig tissue)

What is mitral regurgitation?



Primary

Leaflets are abnormal



Secondary

Heart failure results in stretching of the valve



Mitral regurgitation therapies

Treatment plan: Tailored to you

- Lifestyle modifications
- Regular checkups and monitoring
- Medication management
- ★ Minimally invasive **MitraClip™** procedure
- Open heart mitral valve repair or replacement surgery



A largely untreated patient population

Mitral regurgitation 2009 U.S. prevalence

Total MR patients^{1,2}

4,100,000

Eligible for treatment^{3,4}
(MR Grade $\geq 3+$)

1,670,000

Annual incidence³
(MR Grade $\geq 3+$)

Annual MV surgery⁵

30,000

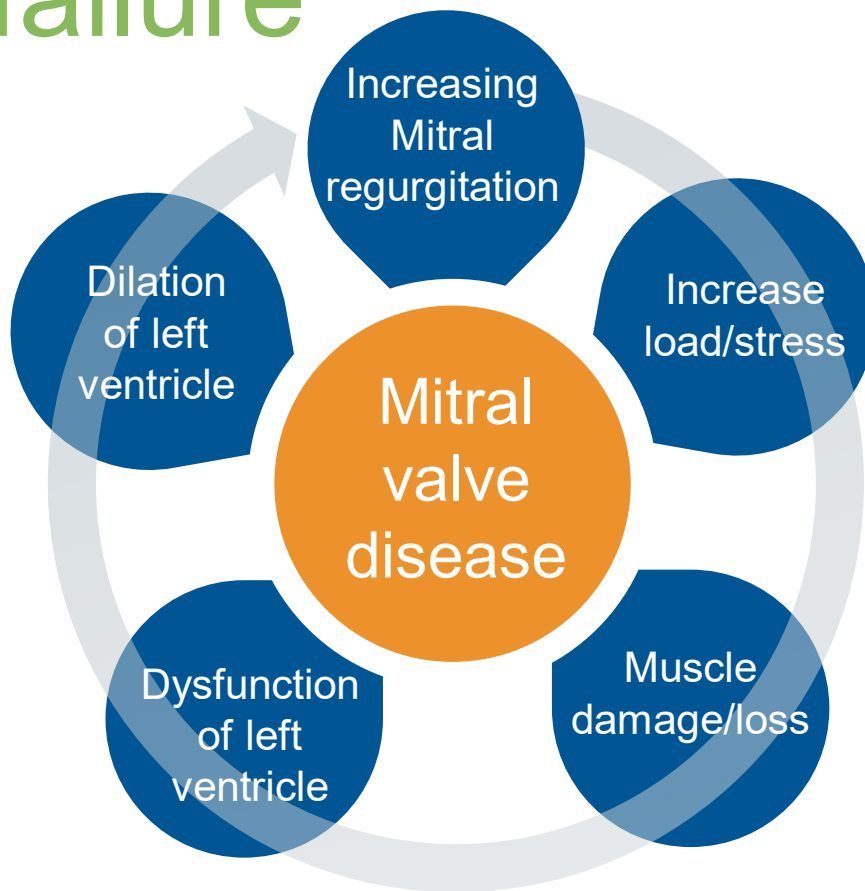
Untreated large
and growing clinical
unmet need

14% Newly diagnosed
each year

Only 2% treated
surgically



How mitral disease leads to heart failure





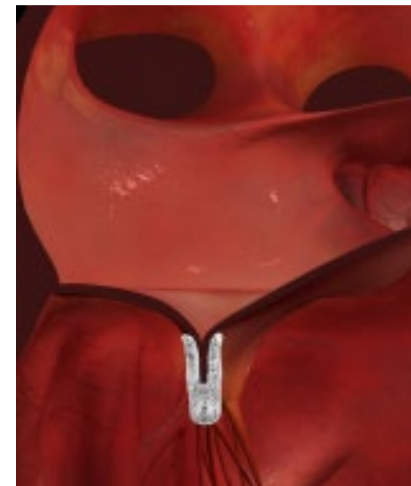
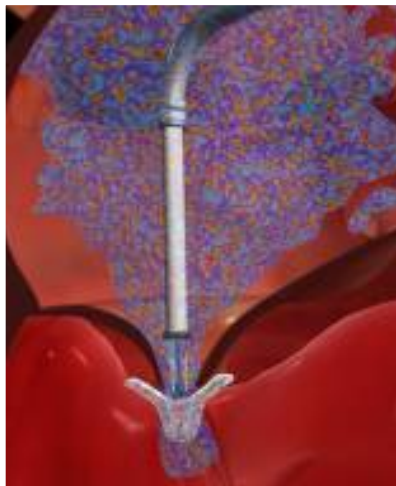
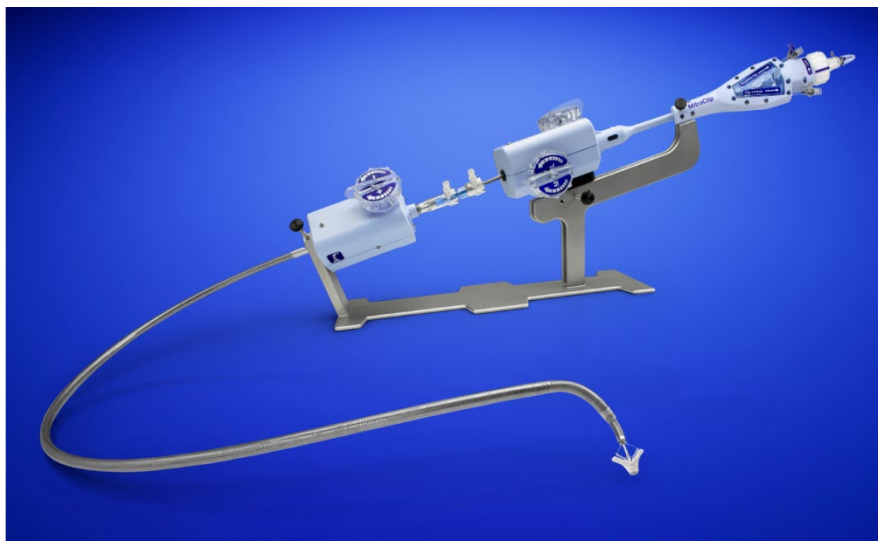
Many patients who have heart failure also have secondary MR

1 out of 5
HF patients has
moderate-to-severe
or
severe secondary
MR





MitraClip™: A futuristic mitral valve fix





Be your own advocate



Murmur

Exam
Echo



Chest pain

ECG
Cardiology



Short of breath

Chest x-ray
Other testing



Resources & handouts

- Recording
- Slides
- Handouts

[peacehealth.org/healthy-you/
heart-valve-disease-therapies-
new-frontier](https://peacehealth.org/healthy-you/heart-valve-disease-therapies-new-frontier)





Q & A

Questions after the webinar?


Send to healthyyou@peacehealth.org





Learn more:

Visit peacehealth.org/hearthealth

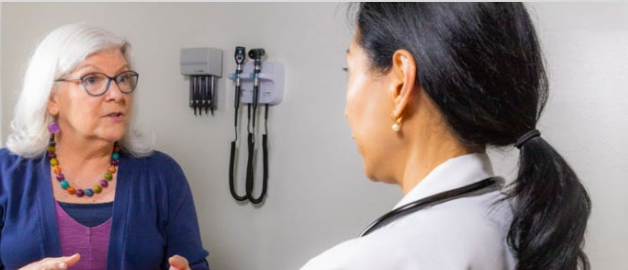

PeaceHealth

DON'T MISS A BEAT

15,000 people trust us with their heart care every year. We'll help you take control of your heart health, so you don't have to miss a beat.


[SCHEDULE AN APPOINTMENT](#)

[Refer a patient >](#)




Why PeaceHealth?

PeaceHealth's cardiovascular care is highly regarded by industry experts. We are grateful to have earned site-specific honors for our care – TAVR, Watchman, cardiac and stroke care, cardiothoracic surgery and others. In addition to our local achievements, we are honored collectively to serve 15,000 patients who trust us with their heart care every year. Let us put together a personalized heart care plan for you so you can enjoy all of life's incredible moments.




Local convenience and expertise

PeaceHealth heart care clinics are located in nine Pacific Northwest cities, including four cities that are home to our hospital-based comprehensive care centers where heart surgical procedures are performed (Bellingham, Eugene/Springfield, Longview and Vancouver). Our expansive presence is an advantage, offering patients more promptly scheduled care closer to home.



Meet our team

More than 50 heart specialists – cardiologists and surgeons – are available at PeaceHealth to help patients with a wide range of heart conditions. Here you will find some of our communities most experienced experts for your care. Each is available to partner with you and your primary care physician to evaluate your condition and ensure you get connected with a treatment pathway that best fits your needs.



Innovative treatments

PeaceHealth offers advanced procedures that help get patients back to doing the things they love. We take pride in introducing minimally invasive heart technologies and surgical techniques into our communities, like MitraClip for patients with mitral regurgitation, transcatheter aortic valve replacement (TAVR) for patients with aortic stenosis, and Watchman for patients with atrial fibrillation.



Survey

*Let us
know what
you think.*