



My Heart, My Journey:

An Empowered

Approach to CHD Procedures



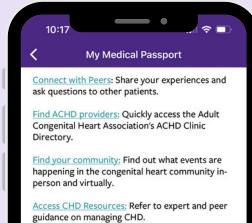
Types of Cardiac Procedures

While cardiac procedures could be of various types, this guide is focused on procedures such as heart catheterizations or surgeries.

Examples of other tests or heart procedures include:

- Electrocardiogram (ECG or EKG)
- Echocardiogram (Echo)
- CT/MRI
- Stress tests

If you would like to learn more about the heart procedures listed above, you can open your EmpowerMyCH app and click on the "CHD Resources" link, or visit our website at bit.ly/EmpowerMyCHResources







Types of Cardiac Procedures



Getting ready for a heart procedure can help you feel more confident, lower your stress, and support a better recovery. This guide will help you understand what questions to ask, who to ask, and why asking matters.

Ensuring Specialized Care



If your doctor has recommended a heart procedure, the first step is to see if you can discuss it with an **Adult Congenital Heart Disease (ACHD) specialist**—a cardiologist with expertise in congenital heart conditions.

Most cardiologists are **NOT** ACHD specialists, so confirm their board certification or expertise in ACHD. If you have any procedure done, ask if the specialist is an ACHD/CHD cardiologist or surgeon. It is the most important thing you can do.

PEER-EMPOWERMENT

Lindsay Alano - Heart and Liver Transplant Recipient (Former CHD Patient)

66Don't be afraid to seek a 2nd or 3rd opinion. You are your best advocate. **99**

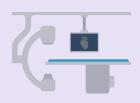


Types of Cardiac Procedures



Cath-based Procedures:

A thin tube (catheter) is inserted into a blood vessel and guided to the heart to check for problems or treat them.



- Shorter recovery (few days to weeks)
- Typically same-day discharge or short hospital stay (1–2 days)



Heart Surgery (Open heart surgery or less invasive surgeries):

A major surgery where doctors have to repair or replace damaged heart structures.



- Longer recovery (weeks to months)
- Longer hospital stay (several days to weeks)



Anushree Agarwal, MD, MAS ACHD Cardiologist

66 Just because a center specializes in ACHD doesn't mean they have the best surgeon for your condition—getting the right second opinion can be crucial. **99**





Cath vs. Surgical **Treatment**

Sometimes, your doctors may offer you two treatment options: a cath-based procedure or open-heart surgery. Choosing between them can be a complex decision. Here are some general things your doctors might think about before recommending one option over the other.

Technical Challenges

- How the different parts of your heart are connected.
- How any previous surgeries or repairs could affect which treatments are possible.
- The size of the valve or hole that needs to be treated.

A Risks vs benefits

Even if it's technically feasible to do both cath or open-heart, sometimes the risks from one might be greater.



1 Long-term Outcomes

Even though recovery can take longer, a surgical procedure may sometimes lead to better long-term results, like needing fewer surgeries or procedures in the future.



🦝 Experience or Expertise

Some doctors or hospitals may have more experience with one type of procedure than another.



Cath-Based Procedures



Plumbing Issues

"Structural & Vascular Issues"

Cath-based procedures, often referred to as **left or right heart catheterization,** can be used to diagnose and treat structural and vascular issues.

Diagnosis

- Oxygen levels and pressures inside the heart may be measured.
- Blood flow through the heart and blood vessels may be checked.

Treatment

- Closing Holes in the Heart—Such as atrial septal defects (ASD) or ventricular septal defects(VSD).
- ◆ Treating Valve Problems—Some procedures help repair or replace heart valves. Other options include using a balloon to open a narrowed valve.
- Improving Blood Flow—by using a balloon or stent to open a narrowed artery. This can be done in arteries like the coronary, pulmonary, or aorta.
- Closing Abnormal Blood Vessels—Such as coiling—or closing off—an abnormal blood vessel such as a collateral or a fistula.



Cath-Based Procedures



Cath-based procedures can also be used to diagnose and treat heart rhythm issues.

Diagnosis

EP Study—Electrophysiology StudyIs a cath-based procedure that identifies abnormal heart rhythms, determines their origin, and helps guide treatment.

Treatment

- Ablation—is usually performed during an EP study and uses energy to treat the area causing abnormal heart rhythms.
- Pacemaker—stimulates the heart as needed to keep it beating regularly.
- Implantable Cardioverter Defibrillator (ICD) placement—prevent life-threatening arrhythmias.

PEER-EMPOWERMENT

Lindsay Alano - Heart and Liver Transplant Recipient (Former CHD Patient)

66Connecting with someone of similar gender/condition who had the procedure at the same hospital was invaluable. **99**



Open-Heart Surgery

This involves making an incision in the chest and using a heart-lung machine to support circulation while the heart is repaired. It is typically required for:

- Valve repairs or replacements
- Repair or reconstruction of CHD
- Heart transplantation

Minimally Invasive Approaches

These procedures use smaller incisions to reduce recovery time and complications.

Examples include:

- Minimally invasive valve surgeries
- Pacemaker and ICD (implantable cardioverter defibrillator) placement

PEER-EMPOWERMENT

Jennifer Gilmartin - ACHD Nurse Practioner

66Your dental care may need to be postponed following a procedure; many patients have to wait 6 months after a procedure.

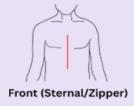




Types of Surgical Approaches

Sternotomy

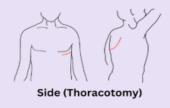
"Traditional Zipper"



A sternotomy is when the surgeon makes an incision down the center of the chest and opens the breastbone (sternum) to reach the heart. A sternotomy is used for heart surgeries that need full access to the heart and major blood vessels.

Thoracotomy

"Side Chest Approach"



A thoracotomy is when the surgeon makes an incision on the side of the chest, between the ribs, instead of opening the breastbone (sternum). This approach may be used when full access to the entire heart is not needed. In some cases, a thoracotomy can be part of the minimally invasive procedure.



PEER-EMPOWERMENT

Karla Deal - Tetralogy of Fallot Patient **66** If you have young children, consider reading books like My Scar is Beautiful to prepare them. 99



? Questions For Your Healthcare Team

PEER-EMPOWERMENT

Ana Cecilia Gonzalez - Transposition, Double Inlet Left Ventricle Patient

66 It is very important to feel your doctor is listening to your concerns. Trust is key, and good communication makes the process easier.**99**

Questions for Cardiology Team & Surgical Staff

- Why is this procedure necessary?
- What are the expected benefits?
- Are there alternative treatment options?
- What will happen during the procedure, and how long will it take?
- What are the possible complications and risks?
- How should I prepare for the procedure (fasting, medications, tests)?

SEMPOWERMENT

Dr. Kimberly Payton, EdD - Patient Parent & Advocate

66Using a notebook to write down your questions and thoughts before the visit as well as during your visit with your medical provider can help to reduce stress, anxiety and empower patients to feel a part of the care and treatment process.



? Questions For Your Healthcare Team

PEER-EMPOWERMENT

Ana Cecilia Gonzalez - Transposition, Double Inlet Left Ventricle Patient

66 It's okay to feel afraid; expressing it helps with coping. Make sure to ask all your questions, even basic ones. **99**

Questions for Social Workers, Case Managers, Counselors, or Patient Services

- How long will I stay in the hospital, and will I need help after discharge?
- What are the lodging, parking, and food options for my family?
- What should I bring to the hospital?
- What mental health or emotional support resources are available?
- Can I connect with a peer mentor or spiritual services?
- Is there a social worker who can help with finances, transportation, and insurance?

PEER-EMPOWERMENT

Joe Valente - Tetralogy of Fallot Patient

66Speaking to a psychiatrist beforehand helped me with emotional recovery in the post-op period. **99**



? Empowered Tips For Your Healthcare

PEER-EMPOWERMENT

Savannah Regan-Hendrix - Transposition Patient

66 It may not come to mind, but ask your medical team for advice on navigating physical intimacy with yourself and/or partners after surgery and maintaining connection in new ways. **99**



If you would like more ideas for questions to ask your care team, visit Conquering CHD at:

bit.ly/achd-questions

PEER-EMPOWERMENT

Lindsay Alano - Heart and Liver Transplant Recipient (Former CHD Patient)

66 Understanding what milestones must be met for discharge from the hospital helped set expectations. **99**

PEER-EMPOWERMENT

Joe Valente - Tetralogy of Fallot Patient
Have someone in your family take no

66 Have someone in your family take notes during your surgery and acute post-op period so you have a record of what happened. **99**



Practical Tips for Your Hospital Stay

For Women

Savannah Regan-Hendrix - Transposition Patient

66 Bring extra menstrual items for comfort in case you get your period during your hospital stay. Hospital-provided menstrual products may not be the most comfortable for you. **99**

Personal Items to Bring

- Comfortable button-up shirts for easy dressing. After a sternotomy, pullover shirts can be hard to put on.
- Toiletries (own soap, shampoo, or toothbrush) and personal care items
- Headphones, books, or entertainment.
- List of medications and emergency contacts
- Chargers for devices

PEER-EMPOWERMENT

Joe Valente - Tetralogy of Fallot Patient

66 Bring noise-canceling/isolating headphones and have a playlist of music for different moods, including one for relaxation and pain. **99**



Practical Tips for Your Hospital Stay

For Women

Jennifer Gilmartin - ACHD Nurse Practioner

66 Those who typically wear breast/chest supporting garments and are scheduled to undergo a mid-sternal incision: consider bringing comfortable, supportive garments with front closures.

Personal Touch to Your Hospital Room

- Put up pictures of your family, friends, or pets.
- Blankets, or small comforts from home
- Music or relaxation aids to reduce stress
- Decorate with posters, drawings, or cards from friends

PEER-EMPOWERMENT

Ana Cecilia Gonzalez - Transposition, Double Inlet Left Ventricle Patient

66 Ask for spiritual help (Chaplin) for support and guidance if you need it. **99**

