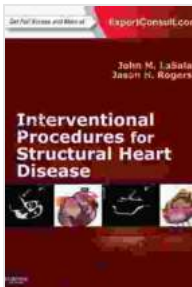


# Interventional Procedures for Adult Structural Heart Disease: A Comprehensive Guide

Structural heart disease refers to a range of conditions that affect the heart's structure. These conditions can include:



## Interventional Procedures for Adult Structural Heart Disease: Expert Consult - Online by Jason H. Rogers

★★★★☆ 4.8 out of 5

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\* Congenital heart defects (present at birth) \* Acquired heart defects (develop later in life) \* Valve disease \* Atrial fibrillation \* Heart failure

Interventional procedures are a type of treatment that can be used to repair or replace damaged heart structures. These procedures are often less invasive than traditional open-heart surgery and can be performed through small incisions with the use of long, thin catheters.

## Types of Interventional Procedures for Adult Structural Heart Disease

There are a number of different types of interventional procedures that can be used to treat adult structural heart disease. The type of procedure that is recommended will depend on the specific condition being treated.

## **Some of the most common types of interventional procedures for adult structural heart disease include:**

\* **Valve repair:** This procedure is used to repair a damaged heart valve. The valve may be repaired by using a variety of techniques, including sewing, patching, or replacing the valve leaflets. \* **Valve replacement:** This procedure is used to replace a damaged heart valve with a new valve. The new valve may be a mechanical valve or a biological valve. \* **Atrial fibrillation ablation:** This procedure is used to treat atrial fibrillation, a type of irregular heartbeat. The procedure involves using catheters to deliver energy to the heart tissue that is causing the irregular heartbeat. \* **Heart failure treatment:** This procedure is used to treat heart failure, a condition in which the heart is unable to pump enough blood to meet the body's needs. The procedure may involve using catheters to deliver stem cells to the heart or to implant a heart pump.

## **Indications for Interventional Procedures for Adult Structural Heart Disease**

Interventional procedures may be recommended for adult structural heart disease patients who have:

\* Symptoms that are not relieved by medication \* A condition that is getting worse \* A condition that is life-threatening \* Failed previous treatment

## **Techniques for Interventional Procedures for Adult Structural Heart Disease**

Interventional procedures for adult structural heart disease are typically performed in a cardiac catheterization laboratory. The patient is sedated or anesthetized, and the doctor inserts a catheter into a blood vessel in the

groin or arm. The catheter is then guided through the blood vessels to the heart.

Once the catheter is in place, the doctor can use a variety of techniques to repair or replace the damaged heart structure. These techniques may include:

- \* **Balloon angioplasty:** This technique involves inflating a balloon inside a narrowed artery or vein to widen it.
- \* **Stenting:** This technique involves placing a stent (a small metal scaffold) inside a narrowed artery or vein to keep it open.
- \* **Heart valve repair:** This technique involves using various techniques to repair a damaged heart valve.
- \* **Heart valve replacement:** This technique involves replacing a damaged heart valve with a new valve.
- \* **Atrial fibrillation ablation:** This technique involves using catheters to deliver energy to the heart tissue that is causing the irregular heartbeat.
- \* **Heart failure treatment:** This technique involves using catheters to deliver stem cells to the heart or to implant a heart pump.

## **Outcomes of Interventional Procedures for Adult Structural Heart Disease**

The outcomes of interventional procedures for adult structural heart disease vary depending on the type of procedure performed and the patient's overall health. However, most patients who undergo these procedures experience significant improvement in their symptoms and quality of life.

**Some of the benefits of interventional procedures for adult structural heart disease include:**

\* Less invasive than traditional open-heart surgery \* Shorter recovery time \* Lower risk of complications \* Improved symptoms \* Improved quality of life

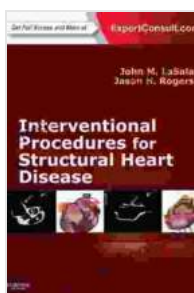
## Risks of Interventional Procedures for Adult Structural Heart Disease

As with any medical procedure, there are some risks associated with interventional procedures for adult structural heart disease. These risks include:

\* Bleeding \* Infection \* Blood clots \* Stroke \* Heart attack \* Death

The risks of these procedures are relatively low, but they should be discussed with the doctor before the procedure is performed.

Interventional procedures have revolutionized the treatment of adult structural heart disease. These procedures are less invasive than traditional open-heart surgery and can be performed through small incisions with the use of long, thin catheters. Most patients who undergo these procedures experience significant improvement in their symptoms and quality of life.



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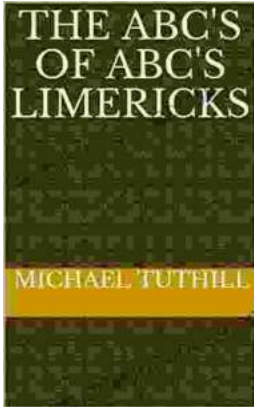
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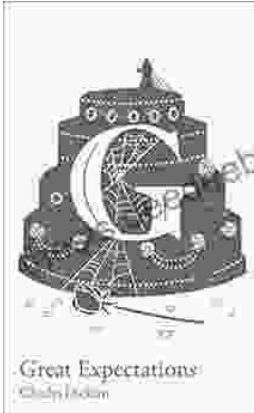
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