



Hybrid AF[™] Convergent Therapy

**Advanced Atrial Fibrillation
Ablation Treatment Options**

AtriCure

What is Atrial Fibrillation?

Atrial fibrillation (Afib) is the most commonly diagnosed arrhythmia in the U.S. Afib is an abnormal heart rhythm caused by erratic electrical signals in the heart. A normal heart rhythm creates regular electrical signals that are essential for the heart to beat in a steady, rhythmic way and pump blood to all parts of the body. But sometimes the electrical signals get irregular, and the heart beats abnormally.



More than
33 million
people currently suffer
from Afib worldwide¹

Afib Changes Over Time

Early Stages of Afib

Paroxysmal Afib starts with irregular, rapid heartbeats that occur occasionally and can last up to 7 days.

Symptoms: palpitations, fluttering feeling in the chest, or a rapid, irregular heartbeat.

If not effectively treated, Afib may progress to more advanced stages.

Advanced Stages of Afib

Persistent Afib lasts beyond 7 days and as long as one year. If not treated the heart may advance to the long-standing persistent stage.

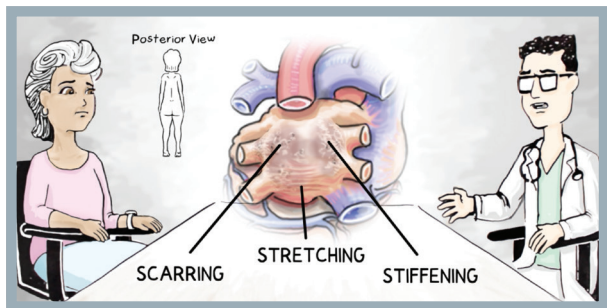
Long-standing persistent Afib symptoms continue beyond one year without stopping.

Symptoms: shortness of breath, weakness, fatigue, pain or pressure in the chest, lowered blood pressure, dizziness, rapid or irregular heartbeat.

Some people with Afib may not be aware of their symptoms and are only diagnosed through an assessment by their physician.

Afib Can Damage Your Heart

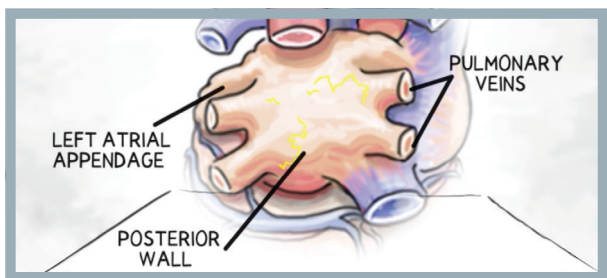
Afib causes physical changes to the structure and shape of the heart. It can scar and stretch as well as stiffen your heart muscle.



These changes can cause more of the erratic electrical signals of Afib.

Trigger Areas

There are 3 areas of the heart where Afib normally starts.



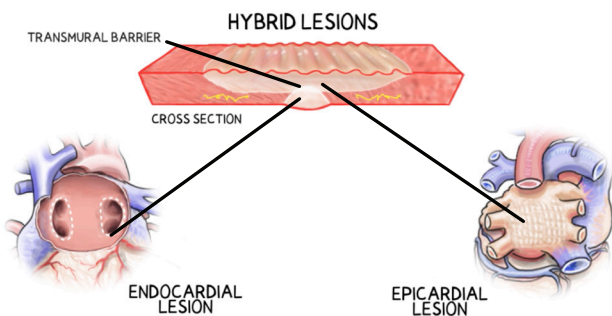
These trigger points can include:

- The base of the pulmonary veins
- The posterior (back) wall
- The left atrial appendage

The goal of ablation treatment for Afib is to stop the irregular heart rhythm or reduce Afib episodes, so that they are shorter and less frequent. This helps the heart return to a more normal size, pump better and improve its function overall.¹

How Does Ablation Treat Afib?

If you have Afib, your doctor might recommend Hybrid AF Therapy. It is a two-part procedure that creates lesions inside (endocardial) and outside (epicardial) the heart to stop the erratic electrical signals that cause Afib.



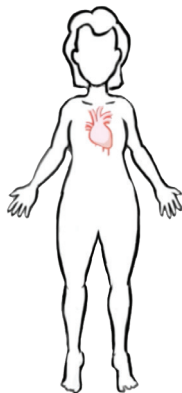
Lesions form barriers on the heart tissue. A transmural lesion (all the way through the tissue) creates a barrier to stop the erratic electrical signals.

Hybrid AF Therapy can provide a long-lasting solution to persistent and long-standing persistent Afib. It targets two key trigger areas for Afib the pulmonary veins and the posterior (back) wall of the heart.²

What Can I Expect During My Hybrid AF Procedure?

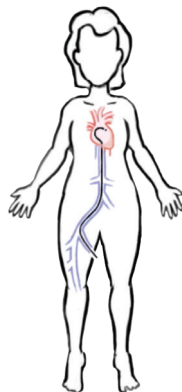
Part One of the Hybrid AF Procedure is Epicardial Ablation:

- The doctor makes a small 2–3 cm incision under the breastbone.
- Once the doctor has access to the heart, they create lesions across the posterior (back) wall.
- These epicardial lesions overlap to create a barrier to the erratic electrical signals that cause Afib.
- Epicardial lesions target areas of the heart that cannot be reached from the inside of the heart.



Part Two of the Hybrid AF Procedure is Endocardial Ablation:

- A second doctor accesses the femoral vein. This allows access to your heart through the vein.
- The doctor looks at an electrical map of your heart. It can show any remaining abnormal electrical signals after your first procedure.
- The doctor then creates lesions at the pulmonary veins and any areas that still have abnormal electrical activity.
- Endocardial lesions target areas of the heart that are difficult to reach epicardially.



What is the Recovery Like After the Hybrid AF Therapy Procedures?

- The hospital stay will be typically two to three days. Your doctor will prescribe medication to prevent inflammation.



- You can resume taking needed heart medications after the procedure as directed by your doctor.
- You will be given a card with important information about your procedures, medicines, and whom to call after you leave the hospital. Keep this in your wallet or purse.

Your healthcare team will let you know when you can return to your daily activities.

Frequently Asked Questions

Q: Why is getting Afib treatment so important?

A: Afib is a progressive disease. If not properly treated, it can damage your heart and lead to health problems such as heart failure, dementia, and increased risk of stroke by five times.

Q: If my Afib is treated, how does that affect my health?

A: Here are possible benefits when treatment is effective:

- The left atrium returns to normal size
 - The left atrium can pump better, sending blood to the left ventricle
 - The left ventricle can pump better, sending oxygen-rich blood to the body
 - Heart function may improve overall
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Q: I already had an endocardial ablation, why do I still have Afib?

A: After having an endocardial ablation, it is possible for Afib to reoccur. If your Afib reoccurs, your doctor may recommend Hybrid AF Therapy.

Q: Could a Hybrid AF Therapy ablation help me when other treatments did not?

A: Yes, because a hybrid ablation can target Afib trigger areas that are hard to reach with endocardial ablation alone. Hybrid AF Therapy combines the benefits of both epicardial (outside) and endocardial (inside) types of ablation.

Q: Can I stop taking my medications after my procedure?

A: Your doctor will let you know what medications you need to continue taking after your procedure.

References

¹ Rahman, F., Kwan, G.F., & Benjamin, E.J. (2014). Global Epidemiology of Atrial Fibrillation *Nat RevCardiol*, 11(11):639-54.

² Zembala, M. et al. (2012). Minimally invasive hybrid ablation procedure for the treatment of persistent atrial fibrillation: one year results, 70(8):819-28.

This material is intended to provide general information, including opinions and recommendations, contained herein for educational purposes only. Such information is not intended to be a substitute for professional medical advice, diagnosis or treatment. The material is not intended to direct clinical care in any specific circumstance. The judgment regarding a particular clinical procedure or treatment plan must be made by a qualified physician in light of the clinical data presented by the patient, the diagnostic and treatment options available.

Individual results may vary. Please consult with your physician regarding your condition and appropriate medical treatment.

The devices are used to form scars in the heart tissue. Possible problems during the procedure may result in the formation of unwanted scar tissue, damage to nerve and blood vessels, heart rhythm disorder, blood clots, pooling of fluid in the sac around the heart and tissue tearing or puncture.

Please review the Instructions for Use for a complete listing of indications, contraindications, warnings, precautions and potential adverse events located at the following AtriCure web address:

<https://europe.atricure.com/healthcare-professionals/product-labeling>

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