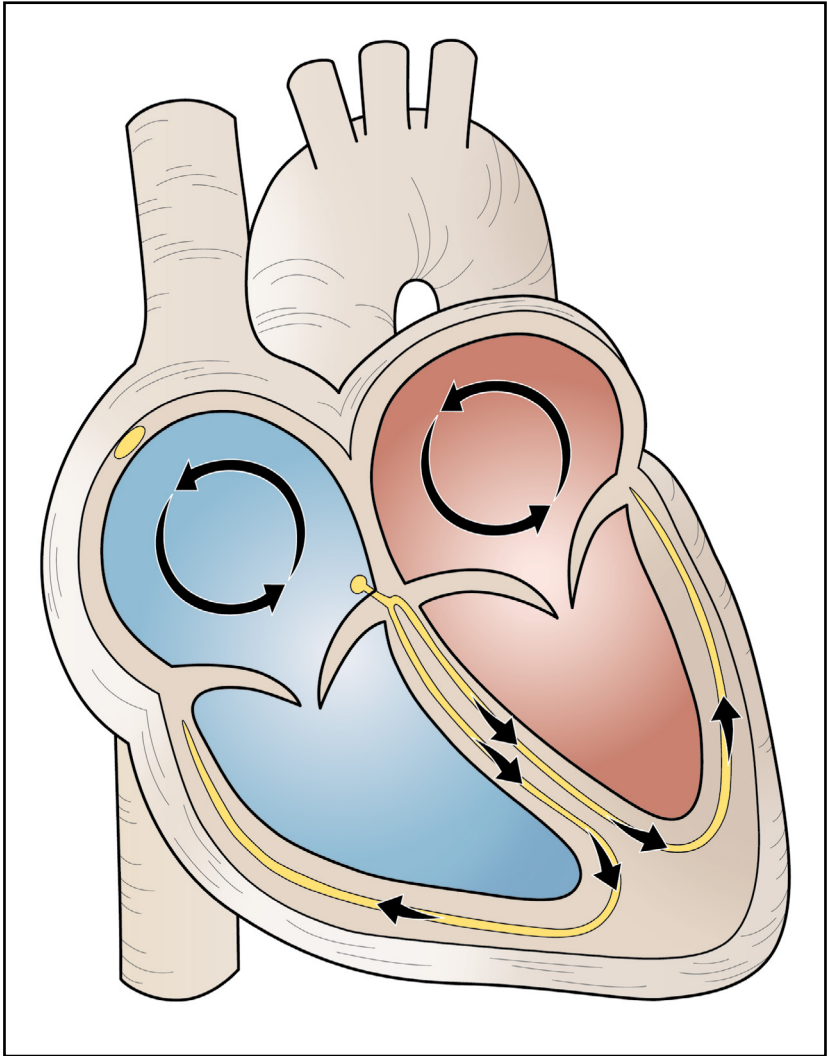


Atrial Flutter



Allina Health



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In atrial flutter, the atria send too many unorganized signals to the ventricles.

Atrial Flutter

Atrial flutter is one type of an abnormal heartbeat.

An electrical impulse causes the heart to beat. Normally, the electrical impulses pass through the heart in a regular rhythm. Sometimes the regular rhythm is disrupted, causing an irregular heartbeat.

Atrial flutter often occurs in people who have a history of heart disease, valve disease, atrial fibrillation, high blood pressure, lung disease or sleep apnea.

Atrial flutter can occur in healthy people.

Electrical Impulses

The heart is divided into four chambers:

- two upper chambers (atria)
- two lower chambers (ventricles).

The electrical impulse that causes a heart to beat begins in the sinoatrial (SA) node and goes down to the atrioventricular (AV) node.

From there, the impulse spreads through the ventricle. This causes a heart at rest to beat between 60 to 100 times per minute.

How Atrial Flutter Happens

Your heart has four chambers. Two upper chambers (atria) pump blood to the two lower chambers (ventricles). In order for the heart to pump, it requires an electrical impulse to start a heartbeat.

In atrial flutter, impulses go from the atria to the ventricles sending too many unorganized signals. Because of these disorganized signals, you may feel like you have a fast heartbeat. You may also feel a fluttering or racing in your chest.

Symptoms of Atrial Flutter

Symptoms of atrial flutter can be steady or they can come and go. They include:

- a faster heartbeat than normal
- a sense of anxiety
- a tightness in the chest that won't go away
- tired, rundown, or weak
- short of breath when exercising or working
- palpitations or racing of the heart
- feeling faint.

How Atrial Flutter is Found

Your doctor will listen to your heart and may give you an exam. Other tests you may have include any of the following.

- **an electrocardiogram (ECG):** This painless test can be done in your doctor's office. The ECG shows the electrical flow in your heart. This is recorded onto paper.

If you have atrial flutter at the time of the ECG, your doctor will be able to tell by looking at the rhythm.

You may have atrial flutter that comes and goes. You may need to wear a Holter or event monitor for several days or weeks to identify the rhythm.

- **a Holter monitor:** A Holter monitor helps determine how your heart responds to normal activity. A Holter monitor is a small, portable ECG monitor that records your heart rhythm nonstop. You wear the monitor for 24 to 48 hours.

While wearing the monitor, you will keep a diary of your activities and symptoms. Your doctor can compare this to your heart rhythm recordings.

- **an event monitor:** An event monitor records your heart rhythm for up to 30 days. It helps your doctor diagnose arrhythmias that aren't common. Your doctor will tell you how long you need to wear one.

When you feel symptoms, you push a button. This triggers the monitor to record your heart rhythm for several seconds during your symptoms and after the event.

The monitor prompts you to record your symptoms so your doctor can compare your heart rhythm and activity records when you are done wearing the monitor.

There are different types of monitors. They will not interfere with your everyday life.

Risks

For most people, atrial flutter is not a life-threatening issue. But, it can place you at risk for blood clots and heart failure.

- **blood clots:** In atrial flutter, the upper chambers don't fully contract (squeeze together). This may cause blood to pool in the atria and blood clots may form.
 - If a blood clot travels out of the atrium, it can cause problems with blood flow in other areas of your body.
 - If the clot travels to your brain, it can stop the flow of oxygen-rich blood to part of your brain, causing a stroke.
 - If the clot travels down a heart artery, it can limit blood flow to a portion of your heart muscle, causing a heart attack.
 - Clots can also cause damage to other areas of your body.

Your doctor will talk with you about your risk for blood clots. Things like heart failure, high blood pressure, age, diabetes, and a previous stroke can place you at higher risk. Your doctor may want you to take aspirin or a blood-thinner medicine to help lower your risk.

- **heart failure:** In atrial flutter, your heart rate can be faster than normal. If your heart beats too fast, for too much of the time, your heart muscle can become weak.

When your heart loses its ability to pump blood through the body well, heart failure can develop. Symptoms include shortness of breath, weight gain, and swelling in your feet, ankles, legs, or abdomen.

Your doctor may want you to take medicine to control your heart rate to reduce your risk of developing heart failure.

Treatments

Your doctor may advise one or more of the following treatments.

■ **medicine:**

— **anticoagulant medicines:**

Medicines such as warfarin (Jantoven®), dabigatran (Pradaxa®) or rivaroxaban (Xarelto®) may reduce the risk of stroke by slowing down the clotting of your blood. Strokes are usually caused by clots that break off and flow to your brain. Aspirin may also be used as part of your treatment.

— **rate-controlling medicines:**

These are used to keep your heart rate in a normal range. You may tolerate atrial flutter better when your heart rate is lowered.

— **antiarrhythmic medicines (rhythm-controlling medicines):**

These are used to return your heart to its normal rhythm.

■ **electrical cardioversion:**

This uses an electrical shock to return your heart back to a normal rhythm. This can be done with or without antiarrhythmic medicine. You will likely need to take a blood thinner before and after cardioversion.

■ **electrophysiology study/ablation:**

This is a study of the electrical system of your heart. Wires are put in your heart through veins. This study may lead to an ablation treatment which may get rid of the arrhythmia.

Sometimes this results in the need for a permanent pacemaker. The pacemaker will keep your heart beating regularly.



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cvs-ah-23746 (6/14)