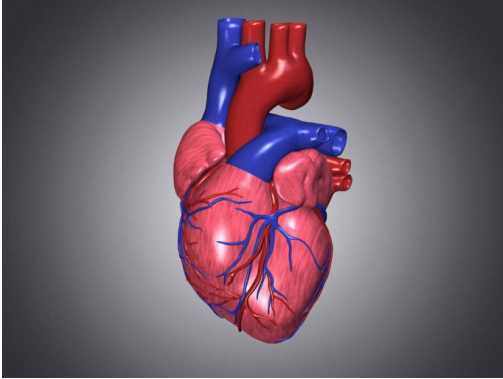


## Atrial fibrillation



Atrial fibrillation is a heart disorder in which the upper chambers, called atria, beat irregularly instead of normally. The beats are extremely fast and irregular, essentially a trembling movement. When this occurs, the atria do not pump well, and the blood is not pumped outside the atria toward the ventricles. Then the blood accumulates in the atria and may coagulate. If part of the clot breaks off and circulates with the blood, it starts to flow and may become trapped in

an artery and stop the flow of blood to the part of the body to which this artery takes oxygen and nutrients. If it blocks the flow of blood to part of the brain, a stroke occurs.

### **Treatment of atrial fibrillation**

Anticoagulant treatment may prevent clots from forming. In the initial treatment of atrial fibrillation, heparin or any similar medication may be used to reduce the risk of clots forming. These medications act fast. Generally, they are administered intravenously (inside a vein) or by injection. Later on, the medication that is most commonly used to prevent blood clots is warfarin. Warfarin is very effective in reducing the risk of stroke due to atrial fibrillation. Warfarin entails significant risks, and the patient must be carefully monitored by the doctor. Aspirin, although less effective in preventing stroke than warfarin, is also used to reduce this condition. Current studies show that anticoagulant treatment can prevent over half of the 80,000 strokes that occur each year due to atrial fibrillation.

If you have atrial fibrillation, the doctor may recommend that you take an anticoagulant. If you do, you need to know:

- The risk of hemorrhage may increase. Careful periodic monitoring of blood concentrations and the right dose should be able to control this risk. Your doctor will tell you where to go for the monitoring.
- When properly administered, it can prevent 20 strokes for every major hemorrhagic complication caused by the medication.
- Most hemorrhages can be prevented and treated.
- Certain medications may interfere with proper anticoagulation. Antibiotics and anticonvulsants are examples of medications that can cause problems. Talk to your doctor or pharmacist for him to give you more complete information.

You doctor may also recommend that you undergo treatment to try to change your atrial fibrillation rhythm to normal. There are certain medications that can be used to try to get the rhythm back to normal. Other patients will need to undergo a procedure called cardioversion in which a discharge is administered to the heart for it to return to a normal rhythm. Medication may be used to try to get the heart to keep beating regularly. Cardiologists sometimes can determine what part of the heart is causing the atrial fibrillation. Then they can perform a procedure called ablation, which destroys this abnormal area of heart tissue and prevents the fibrillation from continuing. If the treatment succeeds in getting the heart back to the normal rhythm, you should be able to stop using anticoagulant medication without increasing your risk of stroke. Your clinical doctor or cardiologist can help you determine which treatment is best for you.