RIGHT BUNDLE BRANCH BLOCK

Right bundle branch block is associated with structural changes from stretch or ischemia to the myocardium. It can also occur iatrogenically from certain common cardiac procedures, such as right heart catheterization. Although there is no significant association with cardiovascular risk factors, the presence of a right bundle branch block is a predictor of mortality in myocardial infarction, heart failure, and certain heart blocks. In asymptomatic patients, isolated right bundle branch block typically does not need further evaluation.



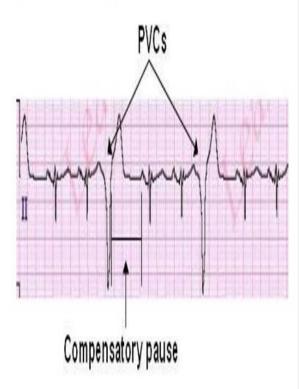
PREMATURE VENTRICULAR CONTRACTIONS

Extra, abnormal heartbeats that begin in one of the heart's two lower chambers.

Premature ventricular contractions (PVCs) occur in most people at some point. Causes may include certain medication, alcohol, some illegal drugs, caffeine, tobacco, exercise or anxiety.

PVCs often cause no symptoms. When symptoms do occur, they feel like a flip-flop or skipped-beat sensation in the chest.

Most people with isolated PVCs and an otherwise normal heart don't need treatment. PVCs occurring continuously for longer than 30 seconds is a potentially serious cardiac condition known as ventricular tachycardia.



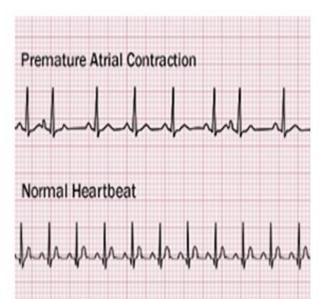
PREMATURE ATRIAL CONTRACTION

Usually, premature atrial contractions have no clear cause and no health risks. In most cases, premature atrial contractions aren't a sign of heart disease and just happen naturally.

But some people who have PACs turn out to have related heart conditions, such as:

- Cardiomyopathy (a weakened heart muscle)
- Coronary heart disease (fatty deposits in your blood vessels)

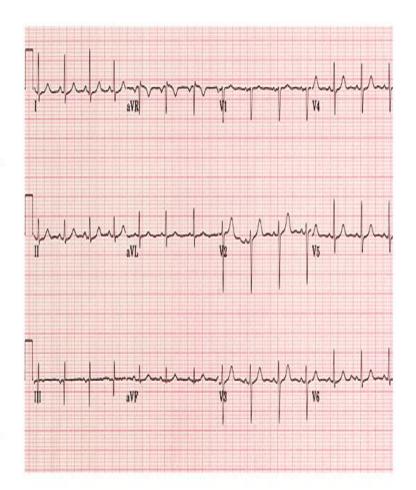
If your doctor finds that you have a condition related to the premature heartbeats, you'll work together to make a treatment plan.



NORM&L

Note that the heart is beating in a regular sinus rhythm between 60 - 100 beats per minute (specifically 82 bpm). All the important intervals on this recording are within normal ranges.

The normal ECG
patterns seen in children
differ considerably from those
in adults.



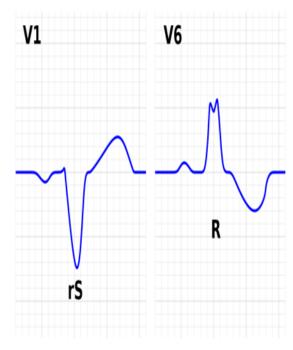
LEFT BUNDLE BRANCH BLOCK

A delay or blockage of electrical impulses to the left side of the heart.

Left bundle branch block sometimes makes it harder for the heart to pump blood efficiently through the circulatory system.

Most people don't have symptoms. If symptoms occur, they include fainting or a slow heart rate.

If there's an underlying condition, such as heart disease, that condition needs treatment. In patients with heart failure, a pacemaker can also relieve symptoms as well as prevent death.



VENTRICULAR FIBRILLATION

A life-threatening heart rhythm that results in a rapid, inadequate heartbeat.

Ventricular fibrillation (VF) is a rapid, lifethreatening heart rhythm starting in the bottom chambers of the heart. It can be triggered by a heart attack.

Because the heart doesn't pump adequately during ventricular fibrillation, sustained VF can cause low blood pressure, loss of consciousness or death.

Emergency treatment includes immediate defibrillation with an automated external defibrillator (AED) and cardiopulmonary resuscitation (CPR). Long-term therapy includes implantable defibrillators and medications to prevent recurrence.

