# An Overview of Types andFunctions of Cardiac PacingLeadsaa

#### Cardiac

pacing, also known as artificial cardiac pacing orpacemaker implantation, is a

procedure that uses electronic medical devices to regulate the beating of the

heart. Cardiac pacing involves the careful placement of leads, which are thin,

flexible wires that deliver electrical impulses from apacemaker to the heart

muscles. These leads are essential for cardiacpacing to work effectively as

they allow the pacemaker to detect the heart'selectrical signals and deliver

stimulation pulses when needed.

## Different Types of Leads

There are different types of cardiac pacing leadsused for cardiac pacing based

on the location where they are placed in the heart.

#### Ventricular Leads

### Cardiac

<u>Pacing Leads</u> are used to pace the lower chambersof the heart, which

are the ventricles. They have a small tip electrodethat is placed inside the

ventricle, usually the right ventricle, through a vein. The electrode delivers

the electrical impulse to make the ventricle contract. Ventricular pacing is

commonly used for slower heart rhythms originating in or below the ventricles.

#### Atrial Leads

Atrial leads are similar to ventricular leads but havea tip electrode placed

inside the upper chambers of the heart, which arethe atria. The most common

location is the right atrium. They are used for pacingthe atria, usually in

conjunction with ventricular pacing. Atrial pacing isneeded for certain arrhythmias that affect the atria.

## His Bundle Pacing Leads

His bundle pacing leads are a specialized type that are placed near the bundle

of His, which conducts electrical signals from the atria to the ventricles.