ALI SALEH Biomedical Engineering University of Rhode Island ELE 282

DEFINITION

The ECG is a representation of the electrical activity of the heart. The ECG gives us information about the condition of the heart muscle. This includes the rate and regularity of beats as well as the size of the chambers, any damage to the heart, and effects of drugs or devices to regulate the heart (pacemaker).

HISTORY

Willem Einthoven described in 1901 the first electrocardiograph, and with it he was able to register the electrical activity of the heart. For this he got in 1924 the Nobel Prize. He used three leads, which later became the standard leads or Einthoven leads. Later Goldberger and Wilson added other leads.

DESCRIPTION

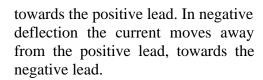
The ECG is an educational tool for medical personal.

Manage one of several cardiac cases starting with history, ECG, and vital signs.

Now an ECG exists of 12 leads:

- 3 bipolar limb leads (einthoven)
- 3 unipolar limb leads (goldberger)
- 6 unipolar chest leads (Wilson).

In each lead deflection depends on the direction of the current to or from that lead .A positive deflection means that the current moves



ADVANTAGES

An ECG is a well-designed database application for tracking personal medical information. Each entry lets you enter a person's name, assign it a category (personal, family, etc) and vital information Including date of birth, known diseases, operations, family history, family doctor, and much more. Usercustomizable categories allow you to maintain multiple databases. Pull down menus is utilized throughout to make data entry quick and simple. If you ever had to find your medical information fast, you'll certainly see the value of this easy use application. We can keep all this information on this palm.

REFRENCES

www.palmblvd.com www.home.wish.net/~gallardo

