

CHARACTERISATION OF A PASTE LESS ECG ELECTRODE

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ABSTRACT

For better understanding of the activity of the heart, the Electrocardiograph needs to be studied for which the electrodes are an inevitable part of the measuring system. Generally electrodes are used with some paste called electrode jelly. Recently, for constant use and ease of using the pasteless electrodes are replacing the previous one. In the present work, an attempt has been made to fabricate different types of pasteless electrode and characterize them by measuring their skin-to-electrode impedance at various frequencies and in presence and as well as in absence of perspiration. Such measurements are necessary in order to design the ECG preamplifier. The results thus obtained have been plotted and from which the best can be chosen for the use.

KEYWORDS: Bio-Electrodes, Half Cell Potential, Electrolysis Process