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Cardiac Hypertrophy commonly known as abnormal thickening of the heart muscle. It results from the increase in the cardiomyocyte size and other heart muscle component changes, like extracellular matrix. There can be physiological and pathological causes for the cardiac hypertrophy like amount of strenuous physical activity performed by an athlete and hypertension respectively. Most patients today survive hypertrophy, thanks to a number of efficient treatment options. In ECG, the QRS amplitude and duration plays an important role in determination of Cardiac Hypertrophy. Raw ECG data has been obtained from MIT PTB database and analysed using MATLAB. De-noising of the ECG signal has been done using filters. The clinically important parameters for Cardiac Hypertrophy have been evaluated using Fast Walsh Hadamard Transform. Statistical Analysis is done by comparing the parameters thus obtained with those of normal ECG parameters to gain a deeper understanding of Cardiac Hypertrophy. This research in turn can help the physicians to diagnose the preliminary signs of cardiac hypertrophy which might otherwise go unnoticed.

Keywords: Electrocardiogram (ECG), Cardiac Hypertrophy, Hypertrophy, Statistical Analysis, Cardiac Analysis, QRS amplitude, QRS duration, ECG Monitoring, MATLAB, Fast Walsh Hadamard Transform.

References:
Web 2.0 Technologies for Accessing Reproductive Health Information Amongst the Youth in Kenya

Abstract: As young people pass through puberty and adolescence, health needs related to sexual and reproductive health arise. Adolescents and youth have been perceived to have few health needs and little income to access to health services. As a result, they have generally been neglected by the health system. In Kenya, inadequate dissemination and implementation of existing policies have further hampered the successful implementation of adolescent and youth sexual and reproductive health (ASYRH) programs. If left out, the youth will lack of information may result in behaviors that may affect their future lives. Several attempts have been made by the government and another stakeholder to ensure adequate dissemination of reproductive health information to the youth; however, due to limited resources, the information is still inadequate. With web 2.0 technologies wide adoption by the youth, these technologies can be harnessed to fill the gap. This study sought to find the use of web 2.0 technologies in the provision of reproductive health information to the youth. The study found out that Facebook is the most widely used web 2.0 technology followed by WhatsApp. The study also found out that as much as the technologies have a potential in reaching the youth, caution must be exercised not to expose the youth to security breaches while online.

Keywords: Web 2.0, Social Networking Sites, Reproductive Health, Preference.

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