Electrocardiogram Changes in Cancer Patients Taking 5-Flurouracil Chemotherapy at National Cancer Institute - University of Gezira (2018)

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This is a prospective, analytical hospital base study conducted to assess Electrocardiogram changes in cancer patients taking 5-flurouracil chemotherapy at national Cancer institute-university of Gezira in the period between September to December 2018. One hundred patient were diagnosed as having a cancer on 5FU base chemotherapy treatment were included in this study. A structured questionnaire was designed, included the most personal data of the patient and other medically important points, the notes were taken and reviewed through questionnaire which was made. Then twelve-lead ECGs were recorded before, and 24 hours after the beginning of the administration of chemotherapy of 5FU then the ECG was interpreted by a cardiologist. The study showed that ECG records changed post 5 FU in 36% of the patients. The pattern of ECG changes were 7% have bradycardia, 4% of the patients have left axis deviation, 5% have right bundle branch block, 3% have inverted T wave, 5% had corrected QT interval between 0.471-0.50 second and 3% more than 0.50 second also 2% of them developed left ventricular hypertrophy and 7% have a low voltage compared with normal ECG records before taking of 5FU. However, the study does not show any change in rhythm or ST segment. Also, the study found that no relation between the mode of administration of the drug and ECG changes. There was a relation between number of cycles and the heart rate after the treatment, There is a high relation between number of cycles and T wave inversion after the treatment. The study concludes that the 5-
flurouracil chemotherapy cause electrocardiogram changes as an indicator of cardiotoxicity effect of the drug.

**Biography:**

Dr. Abdelmuniem Siddig M. Ahmed completed his MBBS from college of medicine – university of gezira, he is a holder of a master degree in human physiology with an excellent grading, he is a registrar doctor in internal medicine in the ministry of health – sudan. He also completed the first part of Membership of the Royal Colleges of Physicians.

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