

THESIS ABSTRACT

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Title: A STUDY ON PREVALENCE OF CARDIAC AUTONOMIC NEUROPATHY AMONG TYPE 2 DIABETES MELLITUS AND USE OF QT_C IN ITS PREDICTION

Period of study: March 2016 to September 2016-09-2016

Institution : Govt. Kilpauk Medical College ,Chennai

Background : Cardiac autonomic neuropathy is one of the most neglected and underdiagnosed complications of diabetes mellitus, which may even lead to potentially life threatening outcomes. Many studies have demonstrated the usefulness of corrected QT interval as an easy diagnostic tool for cardiac autonomic neuropathy.

Aim : To find out the prevalence of cardiac autonomic neuropathy among diabetics in our hospital and use of QT_C interval in diagnosing it.

Methods: Cross sectional study was conducted among 100 type 2 diabetes patients in our hospital, using a battery of five autonomic tests and QT interval in ECG.

Results: Prevalence of CAN was 58% among diabetes in our hospital and QT_C prolongation had 66.2% sensitivity and 90.6% specificity in diagnosing CAN.

Conclusion: Prevalence of CAN among Type 2 DM patients in our hospital was fairly high and QT_C prolongation can be used as a diagnostic tool for CAN.

Keywords: *Cardiac Autonomic Neuropathy, QT interval, Diabetes Mellitus*