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TITLE: Relationship between Plasma Adiponectin Level and Corrected QT Interval in Smoker and Non-smoker Adult Male Subjects

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ABSTRACT

Objective. This study determined the relationship between plasma adiponectin level and corrected QT interval (QTc) in smokers and non-smokers.
Methodology. This cross-sectional analytical study was undertaken in 30 smokers and 30 non-smokers.Plasma adiponectin level was determined by enzyme-linked immunosorbent assay (ELISA). The QT interval was measured by routine 12-lead ECG with Lead II rhythm and QTc was calculated.
Results. Mean plasma adiponectin level was significantly lower in smokers (27.89±15 µg/ml) than that of non-smokers (52.13±21.57µg/ml) ($p<0.001$). Mean QTc interval was significantly longer in smokers than that of non-smokers (415.37±29.9 versus 395.63±26.13 ms, $p<0.01$). Higher risk of low adiponectin level (odds ratio [OR], 8.1; 95% confidence interval [CI], 1.61-40.77) and QTc interval prolongation (OR, 6; 95% CI, 1.17-30.73) were observed in smokers.
There was weak significant negative correlation between plasma adiponectin level and QTc interval in the study population (n=60, r=-0.407, p=0.001). Moreover, low plasma adiponectin level was significantly associated with prolonged QTc interval in the study population (n=60, Fisher's exact p value<0.05). Risk of QTc interval prolongation was 4.3 times higher in subjects with low plasma adiponectin level (OR, 4.27; 95% CI, 1.05-17.46).
Conclusion. Smokers have greater risk for low plasma adiponectin level and prolonged QTc interval. There is a relationship between plasma adiponectin level and QTc interval.

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BIOGRAPHY

Dr Yin Thu Theint achieved M.B.,B.S and M.Med.Sc from University of Medicine 2, Myanmar. She is the assistant lecturer of Physiology department of University of Medicine 2, Myanmar. She contributed to two original articles, of which one article was awarded as Best Poster Presentation at 20th AFES Congress in 2019.

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