

ARIC MANUSCRIPT PROPOSAL FORM

Manuscript #482

1. Full Title: What is the optimal standard for judging ventricular repolarization from resting electrocardiography--the QT interval or the JT interval

Abbreviated Title (length 26): Value of JT Interval

2. Writing Group (list individual with lead responsibility first):

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3. Time line:

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4. Rationale:

Dependence of QT interval on heart rate is established as an intrinsic property of ventricular myocardium. Ventricular repolarization is considered the primary predictor of elevated mortality risk among individuals with a long heart rate corrected QT. However, the QT includes both ventricular depolarization and repolarization while the JT interval reflects only ventricular repolarization. Presumably, the JT should provide a more valid index of ventricular repolarization. Furthermore, the QT interval has limited value in persons with bundle branch block. The JT interval does not have this limitation.

5. Main Hypothesis:

The corrected JT interval is a better predictor of incident CHD, total and cause specific mortality than the corrected QT interval. It provides a better method to evaluate abnormalities of repolarization among individuals with normal or prolonged QRS duration than the QT interval.

6. Data:

ECG data, risk factors, incident CHD mortality outcome. Baseline and available follow-ups.