ARIC MANUSCRIPT PROPOSAL FORM

Manuscript # 440

a. Title: Trends in MI Severity: The ARIC Surveillance Study
b. Abbreviated Title: MI Severity Trends

2. Writing Group:

Goff (Lead), Howard, Cooper, Rosamond, Folsom, Chambless and other interested ARIC investigators

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3. Timeline:

Begin ASAP, finish by summer 97

4. Rationale:

Current data from a variety of sources indicate that case-fatality rates are declining. This trend could be due to impoving medical care or to decreasing severity of MI related to risk factor change. A FINMONICA paper has reported evidence supporting a decline in severity. I propose to examine ARIC data to address this issue. It is my impression that Dr. Rosamond is examining the Case-fatality rate trend in manuscript number 338 and that treatment trends are being examined by both Dr. Rosamond (#175) and Dr. O'Reilly (#395).

5. Objectives/Hypothesis:

1. Describe temporal trends in MI severity using the following indicators of severity: initial pulse and blood pressure, peak enzymes (stratified by receipt of thrombolysis), ECG findings (e.g., Q vs. Non-Q), complications (shock, CHF, VF, ?stroke, CPR, in-hospital mortality), the Peel index and the Norris short term mortality index.

2. Test hypothesis that MI severity has been declining.

3. Test hypotheses that the observed trends are similar in magnitude and direction in subgroups defined by community, sex and race/ethnicity

6. Design: Community surveillance of hospitalized events

7. Data:

Inclusion: community surveillance events Independent variables: time (year), sex, race/ethnicity, community Dependent variables: Described above Covariate: age Analysis: Regression modeling of temporal trends to examine the questions: are the

Analysis: Regression modeling of temporal trends to examine the questions: are the trends linear, if not is there evidence for flattening; are there differences in trends between subgroups defined by community, sex, and race/ethnicity?