ARIC MANUSCRIPT PROPOSAL FORM

Manuscript #237

1. Title:
ECG & Echo LV Hypertrophy

2. Writing Group:

3. Timeline:

4. Rationale:
The distribution of left ventricular mass in a large population study of African Americans has not been adequately described. There is a need to determine the relationship between LV mass and traditional cardiovascular risk factors in this population. Previous studies have demonstrated a relationship between cardiovascular risk and increased LV mass determined both echocardiographically and electrocardiographically. At this interim analysis point in the ARIC Echo Study, it may not yet be feasible or appropriate to "define" a normal range for LV mass in blacks from the ARIC data, but the distribution and other descriptive statistics will give an initial look at these data.

5. Hypotheses:
LV mass (being determined echocardiographically at the Jackson field center during Visit 3) is associated with electrocardiographic criteria for LV hypertrophy.

Echo LV mass is associated with age and systolic blood pressure in the black population

6. Data:
Descriptive statistics will be generated from as much of the Visit 3 echo data as is available at the time of analysis, probably August 1, 1993, to approximately March 1, 1994. LV mass data will be excluded for participants with significant left-side valve dysfunction or evidence for other abnormalities which might independently affect LV mass.

ECG data will be needed for the Jackson center's Visit 3 participants for the same time period.