1. Full Title: Echocardiographic Correlates of Asymptomatic ECG Changes in African Americans
   Abbreviated: Echo and ECG Changes in AAs

2. Writing Group:
   Lead: Herman A. Taylor, Jr., MD
   Address: The Jackson Heart Study
           Jackson Medical Mall
           Jackson, MS 39213

   Other members of writing group:
   T Skelton, C Burchfiel, M Andrew, R Garrison, D Jones

3. Timeline:
   Submit to Publications Committee                         December 1998
   Complete Analysis                                                April 1999
   Submit 1st Draft to Publications Committee           July 1999
   Submit to Journal                                                  December 1999

4. Rationale:
   A high prevalence of nonspecific ECG findings have been reportedly found among AA patient populations. An
   ARIC writing group has found a significant frequency of abnormalities, including short QT intervals and
   nonspecific repolarization abnormalities among AA Forsyth County and Jackson ARIC participants.
   Furthermore, AA populations have a high prevalence of chronic diseases known to predispose to asymptomatic
   CAD (e.g., DM, hypertension) which could manifest in ECG changes only. The echocardiographic correlates of
   such findings are unknown. Echo studies of these individuals could help elucidate any underlying
   pathphysiology of these ECG features may represent.

5. Main Hypotheses:
   A. Many of the common ECG abnormalities found among this all AA cohort will be related to LVH,
      concentric remodeling, LVmass(index), and other structural
      abnormalities
   B. Pseudoinfarction patterns will be more common in this population due to increased LVH/LV mass

6. Data:
   We will perform a cross-sectional analysis using clinical, ECG, and echo variables from visit 3 for the Jackson
   ARIC cohort.
   A. Clinical Variables
      Anthropometry
      Demographics
      History
      Smoking Status
      Medications
      VSS at time of echo
      PFT's
   B. ECG Variables
All standard intervals, conduction patterns, repolarization parameters as collected by ARIC protocol

C. Echo Variables
LV mass; Concentric remodeling; concentric & eccentric hypertrophy; LV mass index
LVEDd & LVEDs; LVEDd/BSA
PWTd, PWTs
LA size, RV size
Aortic diameter; Mitral annular Ca++; mitral annulus diameter
Regional wall motional abnormalities, %fractional shortening, LVEF