ARIC MANUSCRIPT PROPOSAL FORM

Manuscript #109

1. Title:
B-Mode Racial Differences

2. Writing Group:
(lead) G. Burke  R. Hutchinson
  G. Evans  C.E. Davis
  G. Howard  M. Higgins

3. Timeline:
Analysis should be completed by July 1, 1991. Draft manuscript should be ready for distribution by September 1, 1991.

4. Rationale:
Studies based on select clinical patient populations (primarily men) have reported more extensive extracranial carotid atherosclerosis in whites than blacks. The ARIC Study provides a unique opportunity to describe racial differences in carotid wall thickness in a healthy population of middle-aged men and women. We see this as a sufficiently important topic to stand alone as an ARIC Writing Group Proposal. We also intend to explore risk factor differences which may explain any observed wall thickness differences across race.

5. Main Hypothesis:
Gender, age, and segment-specific distributions of far wall thickness (and far wall to arterial diameter ratios) differ (do not differ) between blacks and whites. Secondly, gender, age and segment-specific proportions of whites and blacks exceeding specific wall thicknesses (e.g., 1.5, 2.0, & 2.5 mm) differ (do not differ) significantly. In addition, racial differences in wall thickness will (will not) be observed after adjustment for factors known to affect thickness.

6. Data (variables, time window, source, inclusions/exclusions):
Visit one data on race, gender, age, average wall thickness and average arterial diameter at all ten carotid sites, smoking, blood pressure, body size, lipids, and lipoproteins.