ARIC MANUSCRIPT PROPOSAL FORM

Manuscript #193

1. Title:
Blood pressure as a predictor of atherosclerosis: cross-sectional and longitudinal relationships

2. Writing Group:
(lead) Manoff, Comstock, Nieto, Szklo, investigators from other field centers (Hutchinson, others?), c.c. representative

3. Timeline:
Variables available for analyses now

4. Rationale:
A thorough examination of blood pressure in regard to both clinical and subclinical athero visit 1 data is needed. In addition to assessing cross-sectional visit 1 relationships, there is also an opportunity in Washington County to examine the role of blood pressure measured in the CLUE I study (1974) in regard to wall thickness and prevalent cardio-vascular disease ascertained in ARIC visit 1. The latter longitudinal associations can be examined in approximately 1,400 subjects who participated in CLUE and ARIC visit 1.

5. Main Hypothesis:
blood pressure is related to both clinical and subclinical atherosclerosis.

6. Data:
Subjects: (a) ARIC cohort visit 1 participants and (b) CLUE I-ARIC linked cohort participants in Washington County
Independent variables: blood pressure, demographics, traditional risk factors (smoking, TC, HDL-C).
Variables related to blood pressure: BMI, family history of hypertension, diabetes, physical activity
Outcome variables: wall thickness, prevalent cardiovascular disease (MI, TIA-Stroke, Angina)