ARIC MANUSCRIPT PROPOSAL FORM

Manuscript #452

1. a. Full Title: The Longitudinal Relationship between Diastolic and Isolated Systolic Hypertension

   b. Abbreviated Title: Diastolic Hypertension and ISH

2. Writing Group:

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3. Timeline:

4. Rationale:

   The etiology of the isolated systolic hypertension is poorly understood, although many have considered it to be etiologically distinct from diastolic hypertension. Sclerotic changes in the arterial wall have been proposed as the pathophysiologic mechanism of ISH, i.e. sclerosis increases systolic blood pressure and lowers diastolic blood pressure. However, ISH may be the result of longstanding diastolic hypertension which accelerates the sclerotic process.

5. Main Hypothesis:

   The transitional probability to isolated systolic hypertension at 6 years of follow-up will be greater in diastolic hypertensives than normotensives at baseline.

6. Data (variables, time window, source, inclusions/exclusions):

   SBP, DBP, hypertensive medications, age, BMI, physical activity, alcohol intake, estrogen replacement therapy