## ARIC MANUSCRIPT PROPOSAL FORM

Manuscript \#530

1. a. Full Title: Pulse pressure and menopause
b. Abbreviated Title: Pulse pressure and menopause
2. Writing Group (list individual with lead responsibility first):

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3. Timeline: First draft in 6 months.

## 4. Rationale:

Increased arterial stiffness has been proposed to be a trigger for initiation or progression of atherosclerosis and hypertension. Pulse pressure, a surrogate marker of arterial stiffness, is known to be associated with aging, but it has not been studied in relation to menopause.
5. Main Hypothesis:

We hypothesize that early age at menopause is associated with increased arterial stiffness using the difference between systolic and diastolic blood pressure, i.e., pulse pressure, as a simple index of stiffness.
6. Data (variables, time window, source, inclusions/ exclusions):

The differences between systolic blood pressure (SBP) and diastolic blood pressure (DBP) i.e. pulse pressure (PP) and the 6-year change in PP between visits 1 (baseline, 1988-89) and visit 3 (1995-1996) will be evaluated in three groups: 1) women at baseline, classified by their chronological age ( $\mathrm{N}=2617$ ), 2) women postmenopausal at baseline classified by their recalled age at menopause ( $\mathrm{N}=1927$ ) and 3) pre- or peri-menopausal women at baseline undergoing menopause between V1 and $3(\mathrm{~N}=567)$ by their estimated age at menopause. Only non-hysterectomized, non-HRT using women will be included.

