ARIC MANUSCRIPT PROPOSAL FORM

Manuscript #530

- a. Full Title: Pulse pressure and menopause
 b. Abbreviated Title: Pulse pressure and menopause
- 2. Writing Group (list individual with lead responsibility first): Riitta Luoto, MD PhD Address: NHLBI, NIH
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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 (N=2617), 2) women postmenopausal at baseline classified by their recalled age at menopause (N=1927) and 3) pre- or peri-menopausal women at baseline undergoing menopause between V1 and 3 (N=567) by their estimated age at menopause. Only non-hysterectomized, non-HRT using women will be included.