

# ARIC MANUSCRIPT PROPOSAL FORM

Manuscript #071

1. Title:

ARIC B-mode Variability Study

2. Writing Group:

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3. Timeline:

Partial data is now available from the B-mode IIV study at the Coordinating Center, and three field centers are now finished with data collection. It is important to begin now in order to get our B-mode IIV study into the literature in a timely manner. Complete Visit 1 QC data is already available.

4. Rationale:

Total analytic variance would be broken into components: between person, within person, between visits, intra-sonographer, inter-sonographer, inter-reader, and intra-reader. Measures of repeatability will be presented and the effects of measurement variability on the use of B-mode data in cardiovascular epidemiology will be discussed. Access to these estimates of variance will be of value to subsequent ARIC analyses involving ultrasound measurements, especially the analysis of changes in arterial wall thickness between Visits 1 and 2.

5. Main Hypothesis:

This is primarily a descriptive study, but confidence intervals for repeatability coefficients will be presented to support the hypothesis that ARIC B-mode variables are highly repeatable.

6. Data:

Data gathered in the ARIC B-mode IIV study would be used together with data from ARIC scanning and reading replicate data QC through June 30, 1989.