

ARIC MANUSCRIPT PROPOSAL FORM

Manuscript #344

1. Title: Comparison of on-screen Echocardiography Readings to Traditional Methods

2. Writing Group:

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3. Timeline:

Preliminary analysis is completed. Draft manuscript will be distributed to co-authors in September, 1995.

4. Rationale:

Epidemiologic studies have traditionally used strip chart recordings of M-mode echocardiography to measure left ventricular chamber and wall dimensions. With the evolution of computer techniques, M-mode echocardiographic measures can be performed using electronic calipers directly on the computer screens. The on-screen technique is the method employed by ARIC. Since this is the largest observational echocardiography study in African Americans, it is necessary to compare the ARIC technique to traditional procedures to assure that the distribution of ARIC echocardiographic measures are comparable to published reports in whites.

5. Main Hypothesis:

Among African-Americans in the Jackson cohort, M-mode measurements made using on screen readings will be comparable to strip chart readings. The accuracy of the on screen measurements relative to strip chart will not be altered by age, gender, obesity or hypertension status.

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

100 consecutive strip chart recordings were taken July 6 - August 30th.