

ARIC MANUSCRIPT PROPOSAL FORM

Manuscript #517

1. Title:

A Standardized Procedure for Locating and Documenting Electrocardiographic Chest Electrode Positions

Abbreviated Title (length 26): Standardized ECG Electrode Placement

2. Writing Group (list individual with lead responsibility first):

Lead: Pentti Rautaharju

Address: EPICARE Center

Bowman Gray School of Medicine

2000 West First Street, Suite 505

Winston-Salem, NC 27104

Phone: (910) 716-0830 Fax: (910) 716-0834

Email: pentti@beowulf.phs.bgsu.edu

Members of Writing Group: L. Park, F. Rautaharju, R. Crow

3. Timeline:

Manuscript received at the Coordinating Center for internal ARIC review on 8/27/97

4. Rationale:

This methodological paper documents ECG chest electrode placement procedure used in ARIC and other major NIH-sponsored epidemiological studies. The key question addressed is the placement of anterolateral electrodes on the breast rather than under the breast in women.

5. Main Hypothesis:

The expected attenuating effect of breast protuberance is negligibly small compared to other sources of ECG amplitude variations, particularly misplacement of electrodes.

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

ECG amplitude measurements of ARIC women who had HeartSquare measurements available from Year 7 visit and V6 to midsternal line distance measurement from Year 4 visit.