

ARIC MANUSCRIPT PROPOSAL FORM

Manuscript #065

1. Title (length 26):

Chemistries & Atherosclerosis

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

(lead) Eckfeldt Melnick Goldman
 Hutchinson Folsom URC representative
CCSC representative

3. Timeline:

Can start immediately.

While this is proposed as one manuscript, it may be split if findings do not hang together.

4. Rationale:

Several chemistries, besides glucose/insulin, have been associated with CVD incidence. Framingham and others found uric acid positively and independently associated with CVD. A recent paper in Lancet (1989; ii:1434) found albumin inversely and independently associated with CVD. Scattered reports also implicate creatinine, magnesium, and calcium in CVD. It is important to determine if these associations hold for atherosclerosis.

5. Main Hypothesis:

Generally stated, serum chemistries will be associated with atherosclerosis.

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

Will look at wall thickness in both the case-control pairs and total ARIC Visit 1.

Dependent variables = wall thickness; Independent Variables = chemistries (minus glucose and insulin).

Covariates = smoking, blood pressure, lipids, fibrinogen, sex, race, age.

Keywords: Chemistry, wall thickness, case-control