ARIC Manuscript Proposal # 857

PC Reviewed: 01/03/02	**Status: ___A_**	**Priority: __2__**
SC Reviewed: 01/07/02	**Status: __A__**	**Priority: __2__**

1.a. Full Title: Plasma Vitamin B6 and Inflammation Markers

b. Abbreviated Title (Length 26 characters): B6 and Inflammation

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

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3. Timeline: draft midwinter 2002

4. Rationale: A recent report (Friso et al. Circulation 2001;103:2788-91) showed an inverse association between plasma pyridoxal 5'-phosphate (vitamin B6) and C-reactive protein (CRP) in Framingham. The association was "independent" of homocysteine (tHcy) levels. A quick look at ARIC data shows a similar negative correlation in the case control data set. It may be that there as an association with other markers of inflammation or it may be simply a correlation with CRP.

5. Main Hypothesis/Study Questions:
Independently of tHcy serum B6 is inversely correlated with blood levels of CRP, fibrinogen, von Willebrand factor, factor VIII, and cellular adhesion molecules, and positively associated with albumin.

6. Data (variables, time window, source, inclusions/exclusions):
Nested CHD case cohort dataset where B6 and tHcy was measured. Dependent variables: inflammatory markers. Independent variable: B6. Covariates: age, race sex, tHcy, creatinine, smoking, and alcohol. Will also determine whether there is confounding by education (SES) or major CVD risk factors, and if so, control in analysis. Will either stratify on case/control status or use sample weightings. Will also consider dietary/supplemental B vitamins, though no association expected.

7.a. Will the data be used for non-CVD analysis in this manuscript? ____ Yes __x__ No

b. If Yes, is the author aware that the file ICTDER02 must be used to exclude persons with a value RES_OTH = "CVD Research" for non-DNA analysis, and for DNA analysis RES_DNA = "CVD Research" would be used? **____ Yes ____ No**
(This file ICTDER02 has been distributed to ARIC PIs, and contains the responses to consent updates related to stored sample use for research.)

8.a. Will the DNA data be used in this manuscript? **____ Yes __x__ No**

8.b. If yes, is the author aware that either DNA data distributed by the Coordinating Center must be used, or the file ICTDER02 must be used to exclude those with value RES_DNA = "No use/storage DNA"? **____ Yes ____ No**

9. The lead author of this manuscript proposal has reviewed the list of existing ARIC Study manuscript proposals and has found no overlap between this proposal and previously approved manuscript proposals either published or still in active status.
ARIC Investigators have access to the publications lists under the Study Members Area of the web site at: http://bios.unc.edu/units/cscc/ARIC/stdy/studymem.html

___x___ Yes _____ No