ARIC Manuscript Proposal # 856

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

1.a. Full Title: Endogenous hormones and hemostasis/inflammation markers

b. Abbreviated Title (Length 26 characters): hormones & plasma markers

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

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3. Timeline: completed by end of 2002

4. Rationale: HRT is associated with several effects on coagulation and inflammation markers. For example, HRT raises CRP. It modestly lowers fibrinogen. There are few studies on endogenous hormones and such markers. Because ARIC has endogenous hormone concentrations on a sample of.182 cases of atherosclerosis (determined by ultrasound) and 182 controls, we can examine this issue. None of these women have ever used HRT.

5. Main Hypothesis/Study Questions:
Endogenous hormone levels will correlate with blood levels of CRP, fibrinogen, von Willebrand factor, factor VIII, cellular adhesion molecules, and albumin.

6. Data (variables, time window, source, inclusions/exclusions
The analysis will be based on a subset of post-menopausal women in ARIC who were part of a case-control study designed to look at the relationship between endogenous post-menopausal hormone levels and carotid atherosclerosis. Because they were frequency matched, stratified weighted analysis will be required. Independent variables: hormone levels (estrone, total testosterone, DHEAS, androstenedione, and SHBG). Dependent: markers of hemostasis and inflammation. Covariates: age, race, smoking, weight, waist/hip, diabetes status, alcohol, education level. Will also consider whether there is confounding by standard risk factors.

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