ARIC Manuscript Proposal #783

PC Reviewed: <u>04/04/01</u>	Status: A	Priority: 1
SC Reviewed:	Status:	Priority:

- 1.a. Full Title: Protein C, Antithrombin III, and Venous Thromboembolism
 - b. Abbreviated Title (Length 26 characters): Protein C, ATIII and VTE
- 2. Writing Group (list individual with lead responsibility first):

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- **3. Timeline:** Analysis at once. Draft summer 2001.
- **4. Rationale:** Deficiencies of protein C and antithrombin (ATIII) are important contributors to familial thrombophilia, leading to venous thromboembolism (VTE). Hereditary deficiency is rare, and the population attributable risks are on the order of two percent or less. Nevertheless, no population based prospective studies exist to relate levels of these proteins to the incidence of VTE. It is possible that across the range of these proteins there actually is a graded risk, as suggested by the LETS study for protein C.
- **5. Main Hypothesis/Study Questions:** Low levels of protein C and ATIII (<1%ile) are associated with increased risk of venous thromboembolism. Dose-response will be examined also. Inter-relations with V Leiden will be explored if numbers are sufficient.
- **6. Data (variables, time window, source, inclusions/exclusions):** ARIC measured levels of protein C and ATIII at baseline, and the VTE ancillary study (LITE) remeasured ATIII.

Dependent variable: VTE collected as part of LITE.

Independent: Protein C, ATIII from baseline ARIC. ATIII from LITE. Covariates: age, race, sex, BMI, diabetes, factor VIII, vWF, V Leiden

Exclusions: baseline VTE hx, anticoagulation, baseline cancer.

Analysis of ARIC data will use proportional hazards regression; LITE data, logistic.

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 with a value RES_OTH = "CVD Research" for non-DNA analysis, a		_		
	analysis RES_DNA = "CVD Research" would be used? (This file ICTDER01 has been distributed to ARIC PIs, and contains		Yes _	No	
	the responses to consent updates related to stored sample use for research	h.)			
8.a.	Will the DNA data be used in this manuscript?	_X	Yes	No)
8.b.	If yes, is the author aware that either DNA data distributed by the Center must be used, or the file ICTDER01 must be used to exclude			_	
	,			No)
9. T	The lead author of this manuscript proposal has reviewed the list of				
exis	sting ARIC Study manuscript proposals and has found no overlap be				
-	posal and previously approved manuscript proposals either publishe	d oı	•		
	in active status. ARIC Investigators have access to the publications				
	s under the Study Members Area of the web site at:				
http	p://bios.unc.edu/units/cscc/ARIC/stdy/studymem.htmlx Y	es		_ No	