1. Title:
Association of arterial stiffness and left ventricular hypertrophy
Short Title: Arterial Stiffness and LVH

2. Writing Group:
(lead) Duanping Liao, Ross Simpson, Donna Arnett, Teri Manolio, Andrew Brown, Moyses Szkoł, Gregory Evans, Lin Clegg, Gerardo Heiss

3. Timeline:
Submit Proposal to Publications Committee                 August, 1997
Complete analysis                                                       December, 1997
Submit first draft to Publications Committee                 March, 1998
Submit to Journal                                                        August, 1998

Note: In this manuscript, we will use left ventricular mass and hypertrophy indices estimated by three recognized ECG criteria: Cornell voltage criteria, Cornell Product criteria, and sex-specific Novacode algorithm.

4. Main Study Questions:
(1) Do individuals with stiffer arteries have higher left ventricular mass independent of age, race, sex and hypertension?
(2) Is arterial stiffness associated with left ventricular mass/hypertrophy in normotensives cross-sectionally, independent of age, race, sex, blood pressure level, and obesity?
(3) Is arterial stiffness associated prospectively with (a) the increase in left ventricular mass and (b) the development of left ventricular hypertrophy, independent of age, race, sex and baseline level of blood pressure?

5. Data (variables, source, inclusion/exclusion):
The following variables are needed for this analysis: Arterial stiffness data (Visit 1 and Visit 2 combined), ECG database (V1 to V3), Visit 2 hypertension, blood pressure, BMI, diabetes, lipids, and race, gender, field center, education levels, and smoking status