Manuscript #117

1. Title:
Childhood Weight and Adult Hypertension

2. Writing Group:
(lead) Nieto
   Szklo
   Comstock

3. Timeline:
Immediately

4. Rationale:
A subset of Washington County ARIC participants (N=724) have been linked to 1933-45 school records on which weight and height at different ages (5 to 18 years) were recorded. Information on sociodemographic characteristics and smoking habits in 1975 is also available in these subjects. To our knowledge, this would be the longest follow-up study ever published on the relationship of childhood weight (and growth rate) with adult blood pressure.

5. Main Hypothesis:
Childhood weight is positively associated with adult blood pressure and hypertension prevalence.

6. Data:
Blood pressure as a continuous variable, as well as hypertension prevalence on the 724 WC ARIC subjects on which school-age records are available will be the main dependent variables. ARIC anthropometric information and other blood pressure correlates will be used as covariates. From the school records, pre- and postpubertal weight and height Z-scores and relative weight measurements will be the main independent variables.

Keywords: Anthropometry, hypertension, BP