

ARIC MANUSCRIPT PROPOSAL FORM

Manuscript #279

1. Title:

Plasma N-3 PUFA & COPD

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

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3. Timeline:

A draft manuscript will be prepared by May 1995

4. Rationale:

Manuscript #156 (Fish and Lung Function) reported an inverse relation between dietary n-3 polyunsaturated fatty acids and smoking-related COPD. Plasma levels of n-3 fatty acids correlate with dietary intake and may also reflect between-person biological variation in the response to diet. Measurements of plasma fatty acid levels that were taken in the Minneapolis cohort provide an opportunity to further study the relation of n-3 fatty acids to COPD.

5. Main Hypothesis:

Smoking-related COPD is negatively associated with the levels of n-3 polyunsaturated fatty acids in plasma phospholipids and in cholesterol esters.

6. Data (variables, time window, source, inclusions/exclusions):

Visit 1

Plasma levels of fatty acids (Minneapolis ancillary study)

Spirometry (FEV1, FVC, FEV1/FVC)

Respiratory symptom questionnaire

Derived variables (smoking, demographics)