ARIC MANUSCRIPT PROPOSAL FORM

Manuscript #448S

1. a. Full Title: Methods for Obtaining and Analyzing Polysomnography Data for a Multicenter Study of the Cardiovascular Consequences of Sleep-Disordered Breathing

   b. Abbreviated Title: Polysomnography Data

2. Writing Group:

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3. Timeline:

   Begin writing March 1997.

4. Rationale:

   To describe the data collection, processing and analytic approaches developed for collection of polysomnographic data for SHHS, with provision of data that defines the feasibility and limitations of these methods.

5. Main Hypothesis:

   (i) High quality PSG data can be collected in a multi-center study.
   (ii) Study/signal quality and failure rates vary by center, and by unique host characteristics (BMI, apnea severity).
   (iii) Scoring reliability will be greater for respiratory events associated with desaturations
than events unlinked to saturation; and respiratory event reliability will be greater than arousal data.

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

(i) Number of studies performed/failed/repeated. QA grades and signal quality grades [QA forms produced by Reading Center].
(ii) BMI, sex, age, race of participants enrolled who had a sleep study [from main data base].
(iii) PSG data: RDI (based on different desat and arousal criteria). Arousal index; sleep stage % [from PSG data base, including studies processed for reliability].