1. a. Full Title: Cerebral MRI findings associated with Sleep Disordered Breathing (SDB)
b. Abbreviated Title: Cerebral MRI in SDB

2. Writing Group:

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3. Timeline:

   Start ASAP

4. Rationale:

   We know that central sleep apnea exists. Cerebral MRI is the best tool we have short of
dissection to investigate anatomic abnormalities in the brain. The combining of CHS
cerebral MRIs and SHHS sleep data may yield important information.

5. Main Hypothesis:

   Sleep Disordered Breathing will be associated with specific findings on cerebral MRIs in
an elderly population. We know that obstruction causes SDB; it is not clear what
structural abnormalities in the brain are associated with abnormal breathing patterns.

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

   MRI data from participants in CHS (Pittsburgh, Sacramento and Hagerstown) will be
matched with sleep data from the same participants. Demographic information, such as
age, gender etc., which may be used to stratify or adjust the other data, can come from either data set.