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## Long-term trajectories of subjectively-and polysomnographically-assessed sleep patterns as predictors of neuroendocrine dysfunction and weight gain in adults.

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**DATA-SHARING PLAN:**

*Long-term trajectories of subjectively- and polysomnographically-assessed sleep patterns as predictors of neuroendocrine dysfunction and weight gain in adults*  
(An ancillary study of the Wisconsin Sleep Cohort Study)

We will have a two-tiered approach to data-sharing. First, as an ancillary study to the Wisconsin Sleep Cohort Study (WSCS), this project will contribute data to a publicly-available (via a website) dataset, maintained by WSCS staff, that will include basic de-identified, non-sensitive, individual-level information on objective sleep characteristics, subjective sleep characteristics (e.g., insomnia symptoms, Epworth sleepiness score), health and medical history (e.g., weight history, self-reported diagnoses of stroke, diabetes), health behaviors (e.g., exercise habits, cigarette use) and sociodemographics (e.g., age, gender, education level). In early 2014, Dr. Peppard was invited to become a member of the National Sleep Research Resource (NSRR) Academic User's Group. He has agreed to join this group and is participating in efforts to make WSCS data available through this group's data library that uses a cloud-based platform. Publicly available WSCS data will be useful for: comparison with other research studies; providing normative sleep information; and, exploratory hypothesis-generating analyses. The specific content, operating details, and timing of availability of this public data source depends on IRB review and approval. Creation and maintenance of resources to make data publicly available will require 2% of the WSCS database manager's effort. This is built into the proposed budget.

The second-tier of data-sharing will allow potential access to all WSCS data for analyses that require substantial collaboration or consulting from WSCS investigators. The WSCS encourages, facilitates and maintains multiple national and international data-sharing collaborations related to basic science and population-level sleep research, including partnerships with groups at Stanford, the University of Chicago, Harvard, Stony Brook University, University of Florida, Wayne State University, University of Montreal, Toronto, the Imperial College of London, as well as researchers in Poland, France, and Spain. These collaborations produce many manuscripts and have significantly augmented the productivity of the WSCS and the breadth of topics addressed with WSCS data. Investigators wishing to access WSCS data to address questions related to the aims of the study may contact Paul Peppard or Erika Hagen to initiate a collaboration (this will be advertised on the under-development WSCS public website). Our budget includes 1% time for PI Eric Reither, 1% time for UW Site PI Paul Peppard, 1% effort for Associate Director, Erika Hagen, 5% biostatistician effort and 2% of database manager effort, for collaborations.

In addition, we will also continue to participate with consortium genetic studies according to the limits of our existing consent documents. Over the past 2 years, we have become involved with the International Sleep Genetics Epidemiology Consortium (ISGEC). We plan to continue to participate in this consortium, contributing our genetic and phenotypic data to large meta-analyses of sleep-related conditions.