Analysis of NHANES Sleep Data

Adam Kapelner, Josh Magarick

(Special Thanks to Dylan Small)

Department of Statistics
The Wharton School, University of Pennsylvania

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Nationally representative sample of about 10,000 people every year by using a stratified sample of households from a sample of geographical units (deliberate oversampling of the elderly and minorities).

The data (Part I)

They try to measure various indicators:

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- socioeconomic
- dietary
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How did they collect this data? Via "mobile equipment centers":

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And, using basic regression a la Stat 102, you can detect "associations" and actually publish papers. And, using the methods of this class, hopefully we can find causal relationships...

What are we interested in?

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Why?

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Why? Because it's pretty important... and...

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$\Rightarrow$ We are interested in proving certain lifestyles *cause* a good (or bad) night's sleep.

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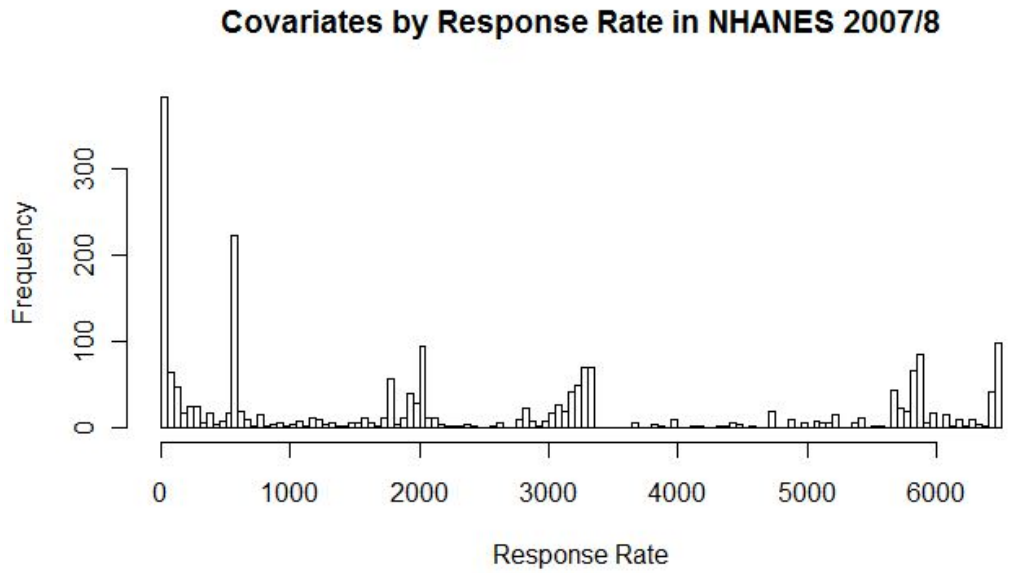

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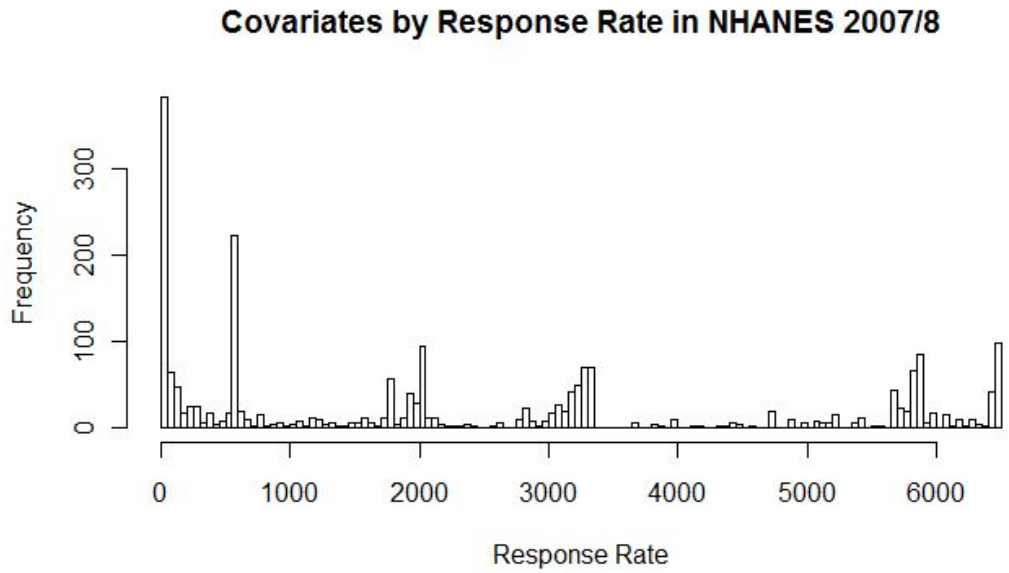

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- Set intersect all records available for all covariates

What are our control variables?

cov code	cov description	num_obs_non_null
RIAGENDR	Gender	6498
RIDAGEYR	Age at Screening Adjudicated - Recode	6498
DMDMARTL	Marital Status	5893
BMXWT	Weight (kg)	6157
BMXHT	Standing Height (cm)	6157
OHAEXSTS	Overall Oral Health Exam Status	6262
AUQ131	General condition of hearing	6498
BPQ020	Ever told you had high blood pressure	6498
CBQ020	Fruits available at home	6418
CBQ060	Soft drinks available at home	6418
DIQ010	Doctor told you have diabetes	6498
HIQ011	Covered by health insurance	6498
HUQ090	Seen mental health professional/past yr	6498
INQ020	Income from wages/salaries	6436
MCQ010	Ever been told you have asthma	6498
MCQ160M	Ever told you had a thyroid problem	5893
PFQ090	Require special healthcare equipment	5893
RDQ070	Wheezing or whistling in chest - past yr	6498
SMQ020	Smoked at least 100 cigarettes in life	5893
SMD410	Does anyone smoke inside home?	6446
VIQ031	General condition of eyesight	6490