

# Welcome to Clinical Data Wrangling

Aurora Blucher, Nicole Weiskopf, Ted  
Laderas and Eilis Boudreau (PhDs all)

# Where are the Slides?

- You should have gotten an invite to Box for the Lectures folder
- If not, please raise your hand and we'll send an invitation

# Code of Conduct

Please read the Code of Conduct in the lectures folder. We want to foster a positive learning environment.

- Respect each other
- Help each other
- Don't belittle each other

# Goals of this workshop

1. Familiarize students with the benefits and drawbacks of working with EHR data.
2. Teach basic competencies in clinical data wrangling with a realistic clinical dataset.
3. Teach basic competencies in exploratory data analysis (EDA) in order to identify issues in EHR data.

# Today's Schedule

- 9:00 These Slides
- 9:15 – 10:15 Session 1: Learning about Sleep Data and clinical data
- 10:15 – 10:30 Break
- 10:30 – 11:00 Session 2a: Understanding the Data
- 11-12:30 Lunch Break/Installing R/Rstudio
- 12:30 – 1:30 Session 2b: Exploring the Dataset with the Shiny App
- 1:30-1:45 Break
- 1:45 – 4:00 Session 3: Starting to build a predictive model with the R Notebook
- 4:00-4:30 Discussion of Day 1/Wrap up

# Future Sessions

- Day 2 (Tuesday), Session 4: 1-2 PM BICC 123
  - Looking at Race as a covariate
- Day 3 (Wednesday), Session 5: 2-5 PM BICC 123
  - Looking at Hypertension as a covariate
  - Put together presentation about final model as an R Notebook
- Day 4 (Thursday), Session 6: 3:30-5:30 BICC 124
  - Short presentations and wrap-up discussion
- Times/topics subject to change

# About Us

- Introduce Us
- Introduce Yourself
  - What is your background?
  - What do you hope to learn from this workshop?

# Protected Health Information

- Remember, this dataset is considered Protected Health Information.
- Don't share the data with anyone.

# Group Up!

Get into four groups. Get to know each other!

# The Post It System

Remember, the first line of defense is your team.  
But then:

- Red - I need help
- Green - Things are peachy-keen/I'm done with what you asked me to do

# Acknowledgements

- National Sleep Study Resource ([sleepdata.org](http://sleepdata.org))
  - Susan Redline
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