

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)
 - Susan Redline
 - Dan Mobley
- NLM T15 Training Supplement