# Data Management and Reporting in SPSS

Laura Berbert, MS

Lecture 1
*Navigating SPSS*

Lecture 2
*Data Manipulation*

Lecture 3
*Summarizing Data*

Lecture 4
*Comparing Means/Proportions*

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# Lecture Outline

- Compute descriptive statistics (mean, median, frequencies)
- Create graphical displays (histograms, bar charts, and box plots)
- Produce statistics and graphs by a grouping variable
- Edit and save output

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# Descriptive Statistics and Graphical Displays by Data Type

### *Categorical Variables*

- Frequency tables

- Bar charts

### Numeric Variables

- Mean, standard deviation (parametric)
- Median, IQR, range (nonparametric)

- Histograms

- Boxplots

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# Demo

- SPSS sample data file patient_los.sav
- Treatment records of patients admitted to the hospital for suspected MI ("heart attack")
- Each case represents a separate patient
- Variables related to hospital stay

# Descriptive Statistics and Graphic Displays

- Descriptives Procedure (numeric variables)

- Frequencies Procedure
  - Numeric Variables
  - Categorical Variables

# Subsetting Data / Grouping Variable

- Select Cases
- Split File

# Descriptives and Graphs by Group

- Explore Procedure (numeric variables)
- Crosstabs Procedure (categorical variables)

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# Graphing Data

- Menus to select Graph > Chart Builder

- Use to generate graphs but note output will not include summary statistics

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# Edit Output

- Ouput Viewer window
    - Navigation pane on the left hand side
    - Output on the right hand side
- Double click tables and charts to modify

# Next Lecture

- Lecture 4: Comparing Means/Proportions
  - Numeric variables – compare means/medians
  - Categorical variables – compare proportions

- Questions? Email: laura.berbert@childrens.harvard.edu

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