

Essentials of Patient Oriented Research (EPOR)

Statistical Methods in Clinical Research

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Thursdays, April 1 – June 3, 2021

5:00 - 6:30 p.m.

Text: Primer of Biostatistics, 7th Edition. Stanton A. Glantz (McGraw-Hill)

(Available at www.amazon.com: New \$70.20, Used from \$28.10)

Software: STATA, version 16 (available for Windows and Mac)

From STATA Corp: <http://www.stata.com/order/new/edu/gradplans/campus-gradplan/>

• **Stata/IC:** Annual license: \$125. **Stata/SE:** Annual license \$195
(Either version will be sufficient for the course.)

• If you are a student, you can purchase a **Small Stata/IC** annual license for \$94 or the six-month license for \$48.

Go to: <http://www.stata.com/order/new/edu/gradplans/student-pricing/>

Note: you are free to use other statistical software if you are familiar with it, but STATA will be used and taught in the course.

Week	Date	Lecture Topic	Speaker	Length
1	4/1/2021	Introduction/Data Summarization	Ted Karrison	90 mins
2	4/8/2021	Analysis of Variance	Ted Karrison	90 mins
3	4/15/2021	T-tests	Ted Karrison	90 mins
4	4/22/2021	Comparison of Proportions/Chi-squared Tests	Ted Karrison	90 mins
5	4/29/2021	Power Calculations	Ted Karrison	90 mins
6	5/6/2021	Confidence Intervals	Ted Karrison	90 mins
7	5/13/2021	Linear Regression/Correlation	Ted Karrison	90 mins
8	5/20/2021	Repeated Measurements	Ted Karrison	90 mins
9	5/27/2021	Rank-based (nonparametric) procedures	Ted Karrison	90 mins
10	6/3/2021	Survival Analysis/Overview	Ted Karrison	90 mins

Exercises will be assigned at the end of each class and the solution discussed the following week.