CLRES 2024 – Nonparametric Statistics  
Spring 2010

Instructor
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Jonathan Yabes
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Credits
1 credit  (16 contact hours = 2 sessions each week for 4 weeks beginning Monday, March 1st through and including Wednesday, March 24th. Each session is 2 hours.)

Prerequisite
CLRES 2020 (Biostatistics) or equivalent courses

Course Objectives
CLRES 2024 (Nonparametric Statistics) is designed for medical researchers with non-biostatistics majors. The course will focus on the basic concepts of nonparametric data analysis. The course objectives are to:

- Identify different statistics used in nonparametric statistics, and be able to estimate and interpret these statistics.
- Become familiar with issues in the design, analysis, and interpretation of studies involving nonparametric statistics.
- Develop analytic skills through the analysis of data sets taken from the fields of medicine and public health.
- Develop oral and written communication skills through the description of analytic strategies and the summarization and interpretation of results.
Grading

A letter grade is given and based on course requirements.

Meeting Times

Lectures: MW 1:00-3:00pm (222 VALE), March 1 – March 24, 2010.

Textbook (recommended but not required)


References


Software

STATA 10, www.stata.com
# Course Outline

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<th>Date</th>
<th>Topic</th>
<th>Reading Assignment (Daniel)</th>
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<tr>
<td>Monday, March 1st</td>
<td><strong>Unit 1. Introduction to Nonparametric Statistics</strong></td>
<td>Chapters 1 &amp; 2</td>
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<td><strong>Unit 2. Tests for One Population</strong></td>
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<td>Wednesday, March 3rd</td>
<td><strong>Unit 2. Tests for One Population (cont’d)</strong></td>
<td>Chapter 3</td>
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<td><strong>Unit 3. Tests for Two Populations</strong></td>
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<td>Monday, March 8th</td>
<td><strong>Unit 3. Tests for Two Populations (cont’d)</strong></td>
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<td><strong>Unit 4. Tests for Three or More Populations</strong></td>
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<td><strong>Unit 4. Tests for Three or More Populations (cont’d)</strong></td>
<td>Chapter 7</td>
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<td>Wednesday, March 17th</td>
<td><strong>Unit 4. Nonparametric Correlation</strong></td>
<td>Chapter 9</td>
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<td>Monday, March 22nd</td>
<td><strong>Unit 5. Introduction to Nonparametric Regression</strong></td>
<td>Chapter 10</td>
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<td>Wednesday, March 24th</td>
<td><strong>Unit 6. Introduction to the Bootstrap</strong></td>
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