Janus Sistema Administrativo da Pós-Graduação

Discipline Information

The following dates are in (dd/mm/yyyy) format.

Code: RAL5838 - 3 Type: POS
Name: Statistics Applied to Clinical Trials
Concentration area: Ciências da Saúde Aplicadas ao Aparelho Locomotor (17142)

Approval dates:
CCP: 24/11/2022 CPG: 24/11/2022 CoPGr:
Activation date: 24/11/2022 Inactivation date:

Workload:
Total: 60 h Theory: 8 h Practice: 4 h Study: 3 h
Credits: 4 Duration: 4 weeks

Professors: 57845 - Luís Vicente Garcia - 24/11/2022 until today

Objectives:

A indicação e a aplicação de testes estatísticos são tarefas árduas para a maioria dos pesquisadores que militam na área médica. Vários são os motivos que contribuem para essa dificuldade, incluindo a aversão do médico pela matemática e o formato do curso durante o período de graduação. Este curso tem o objetivo de abordar os principais aspectos da estatística , enfocando prioritariamente a indicação de testes adequados para cada tipo de protocolo, evitando ao máximo, o tratamento e o jargão matemático.

Rationale:

The indication and application of statistical tests are difficult tasks for most professionals. researchers working in the medical field. There are several reasons that contribute to this difficulty, including the physician's aversion to mathematics and the format of the course during the graduation period. This course aims to address the main aspects of statistics , focusing primarily on the indication of adequate tests for each type of protocol, avoiding as much as possible treatment and mathematical jargon.

Content:

Theoretical classes
1. Clinical trials: planning and execution
2. Types of clinical studies
3. Some important concepts about epidemiology
4. Data description, exploration and comparison
5. Notions of probability
6. Descriptive Statistics

7. Presentation of Results: mean, median, standard deviation
8. Probability Distribution
9. Inferential Statistics
10. Estimates and sample sizes
11. Tests used to compare two samples
12. Tests used to compare more than two samples
13. Non-parametric tests
14. Tests for categorized data
15. Correlation and regression
Note: Theoretical classes (mandatory attendance) will be given, in a

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concentrated, in the first week of the course. The other activities will be distributed along of the course.

Bibliography:

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Type of Assessment:

Written tests in multiple choice format. Two tests will be applied, each involving about 50% of the taught content. Tests will be held on the platform moodle, asynchronously, with times and deadlines for its execution. students who who do not carry out the evaluation will receive a score of zero. The final grade will be the arithmetic mean of the two evaluations and grades will be assigned as follows: Grade A for those who obtain a final average above 8.0; Concept B for those who obtain a final average above 6.0 and less than 8.0; Concept C for those who obtain a final average equal to o

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