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COURSE DESCRIPTION

Academic year: 2022/2023

University: Comenius University Bratislava

Faculty: Jessenius Faculty of Medicine in Martin

Course ID: Course title:

JLF/3-JZSA-003/22 Basics of statistic analyses

Educational activities:

Type of activities: Number of hours:

per week: per level/semester:

Form of the course: on-site learning, distance learning

Type, volume, methods and workload of the student - additional information

Form of Study: in person

Number of contact hours: 10 hours of lectures and 2 hours of practicals

per week: per level/semester: 12 hours during one day

Number of credits: 4

Recommended semester:

Educational level: III.

Prerequisites:

Course requirements:

Active participation

Learning outcomes:

Refreshing of the basics of statistical data analysis and statistical inferences. To know how to test hypotheses for the population mean. To understand the limitations of the nonparametric tests. To be able to decide between using parametric or nonparametric tests for a particular data. To be able to explore data, summarize data and test hypothesis for population mean as well as for contingency tables in jamovi. Ability to interpret results of statistical data analysis.

Class syllabus:

Population, sample, generalization, statistical inferences. Software jamovi. EDA – exploratory data analysis, histogram, density plot, boxplot, swarmplot, violin plot, quantile-quantile plot with 95% confidence band, assessment of normality. Descriptive statistic for location and scale, robustness. SD vs SEM. Confidence interval for the population mean. Fisher Null Hypothesis Significance Testing. Motivation for p-value, evidential scale. Neyman-Pearson hypothesis testing. Tests for the population mean: one-sample t test, Welch test, two sample t test, two sample paired t test, illustrative case studies. Nonparametric tests (WMW test, one sample and paired Wilcoxon test) and their limitations, illustrative case studies. Contingency tables. Chi-squared test and Fisher test, illustrative case studies. Practicals in jamovi – three case studies in test selection.

Recommended literature:

KIRKWOOD Betty and Jonathan STERNE. Essential Medical Statistics. Wiley-Blackwell, 2003. ISBN 0865428719

NAVARRO Danielle and David FOXCROFT. Learning statistics with jamovi: a tutorial for psychology students and other beginners. http://www.learnstatswithjamovi.com

Languages necessary to complete the course:

Slovak and English						
Notes:						
Past grade distribution Total number of evaluated students: 0						
ABS0	M	NEABS				
0,0	0,0	0,0				
Lecturers: doc. Mgr. Marián Grendár, PhD.						
Last change: 08.08.2023						
Approved by:						

STATE EXAM DESCRIPTION

Academic year: 2022/2023

University: Comenius University Bratislava

Faculty: Jessenius Faculty of Medicine in Martin

Course ID: Course title:

JLF/3-URO-005/22 Dissertation Defense

Number of credits: 30

Educational level: III.

Course requirements:

- obtaining at least 210 credits (in a 4-year full-time and 5-year part-time study)
- submission of an application for a state examination permit defense of the dissertation no later than 4 months before the date of completion of the standard length of study
- authorship or co-authorship of a doctoral student of at least three scientific papers in extenso in internationally recognized journals registered in databases, such as Web of Science, Medline or SCOPUS as a basic condition for accepting an application for permission to defend a dissertation; in at least one of these works, the doctoral student is the first author

Learning outcomes:

- the graduate of the field has mastered the principles and methodology of scientific work, from the ability to orient in the latest knowledge of the field, through scientific formulation of the problem, assessment of the ethical side of scientific work, planning and implementation of research, scientific processing of obtained data, their interpretation to their presentation, including in international fora, and possible proposals for their application in practice.
- the graduate of the course Urology 2 has the ability to work independently scientifically and bring their own solutions to problems in the field. He has the ability to contribute to the development of this field through scientific and pedagogical work

Class syllabus:

- scientific research on a current problem in the field or a multidisciplinary problem with a focus on urology
- mastering the principles and methodology of scientific work in clinical research or experimental work, as well as the ethical and social aspects of scientific work up to the preparation of the text of a scientific publication in cooperation with the supervisor in in-form, especially in English
- publishing and lecturing activities and active participation in scientific events
- pedagogical activity (max. 4 hours per week / year = 208 hours / year = 104 hours / semester) only for full-time form
- medical preventive activity, while the doctoral student meeting the prescribed requirements is included in the specialization study to an appropriate extent

State exam syllabus:

Recommended literature:

Dvořáček, J. a spol.: Urologie

Zvara, V., Horňák, M.: Urologické operácie

Breza, J., Kliment, J., Valanský, L. a spol.: Všeobecná a špeciálna urológia pre poslucháčov

lekárskych fakúlt

Tanagho, E.A., McAninch, J.W.: Smith's General Urology

Breza, J. a kol.: Princípy chirurgie 4

Kliment, J., Mego, M., Dubinsky, P.: Karcinóm prostaty

Časopisy

Klinická urológia – časopis Slovenskej urologickej spoločnosti

Česká urologie - časopis Českej urologickej spoločnosti

Urologie pro praxi

European Urology - časopis Európskej urologickej spoločnosti

Journal of Urology - časopis Britskej spoločnosti urologických chirurgov

BJU International - časopis Medzinárodnej urologickej spoločnosti

The European Association of Urology Guidelines: https://uroweb.org/guidelines

Languages necessary to complete the course:

Slovak language / English language

Last change: 21.08.2023

STATE EXAM DESCRIPTION

Academic year: 2022/2023

University: Comenius University Bratislava

Faculty: Jessenius Faculty of Medicine in Martin

Course ID: Course title:

JLF/3-URO-004/22 Dissertation Examination

Number of credits: 20

Educational level: III.

Course requirements:

- obtaining at least 60 credits, including 20 credits for mandatory courses of the Methodology of Scientific Work, Introductory of Statistical Analysis and Examination in a Foreign / World Language as a condition for granting consent to take a dissertation exam (DE)
- registration for DE within 24 months from the beginning of the study (in a 4-year full-time study)
- registration for DE within 30 months from the beginning of the study (in a 5-year external study)
- elaboration of a written part for the dissertation exam
- successful answering of 2 theoretical questions from the field of Urology and presentation of the basic theses of the written part of the dissertation exam

Learning outcomes:

- graduate of the course Urology 1 has deep theoretical knowledge, based on the current state of scientific knowledge in the field of urology in embryology, anatomy and physiology of the urogenital system, pathology, pathophysiology, pathogenesis, epidemiology, etiology, diagnosis and treatment of congenital and acquired urogenital diseases for the implementation of doctoral studies
- the graduate is capable of independent scientific work and brings own solutions to problems in the field of urology
- masters research methods in the field of urology, especially with a focus on methods of clinical and clinical-epidemiological research

Class syllabus:

- graduate of the course Urology 1 has deep theoretical knowledge, based on the current state of scientific knowledge in the field of urology in embryology, anatomy and physiology of the urogenital system, pathology, pathophysiology, pathogenesis, epidemiology, etiology, diagnosis and treatment of congenital and acquired urogenital diseases for the implementation of doctoral studies
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Recommended literature:

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Breza, J., Kliment, J., Valanský, L. a spol.: Všeobecná a špeciálna urológia pre poslucháčov

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Breza, J. a kol.: Princípy chirurgie 4

Kliment, J., Mego, M., Dubinsky, P.: Karcinóm prostaty

Časopisy

Klinická urológia – časopis Slovenskej urologickej spoločnosti

Česká urologie - časopis Českej urologickej spoločnosti

Urologie pro praxi

European Urology - časopis Európskej urologickej spoločnosti

Journal of Urology - časopis Britskej spoločnosti urologických chirurgov

BJU International - časopis Medzinárodnej urologickej spoločnosti

The European Association of Urology Guidelines: https://uroweb.org/guidelines

Languages necessary to complete the course:

Slovak language / English language

Last change: 10.08.2023

COURSE DESCRIPTION

Academic year: 2022/2023

University: Comenius University Bratislava

Faculty: Jessenius Faculty of Medicine in Martin

Course ID:

Course title:

JLF/3-JCJ-002/22

Foreign Language

Educational activities:

Type of activities:

Number of hours:

per week: per level/semester:

Form of the course: on-site learning, distance learning

Type, volume, methods and workload of the student - additional information

Form of teaching: full-time / part-time

Type, scope, and method of educational activities:

- self-study (course) in the range of 1-2 semesters depending on the basic knowledge of English / German
- consultations before the exam in the range of about 4-6 hours
- methods: self-study / full-time method / online consultation / e-mail contact

Recommended range of teaching (in hours): Weekly: During the study period

Study method: full - time, part - time, part - time, combined

Number of credits: 10

Recommended semester:

Educational level: III.

Prerequisites:

Course requirements:

- command of a foreign language at the level of min. B2
- passing the examination and, if necessary, 2-3 consultations before the examination
- passing a foreign language exam

Learning outcomes:

The graduate of the course will acquire the language skills needed to obtain scientific information from foreign sources and present research results in foreign journals and at international conferences. They will learn about the possibilities of studying abroad, health care systems in English-speaking countries, ways of language education, possibilities of using IT in language education, but also about variants of the English language used in global communication.

Class syllabus:

English language:

- 1. Education and Education Systems
- 2. Language Education
- 3. Intercultural Communication
- 4. Study Abroad
- 5. Health Services
- 6. Differences between British and American English
- 7. Aspects of English Medical Language
- 8. Speaking at Medical Meetings: Presentation of a Paper

- 9. Writing a Scientific Research Article
- 10. Academic Skills in Medical English and Information Technology

German language:

- 1. Bildung und Bildungssysteme
- 2. Sprachunterricht
- 3. Interkulturelle Kommunikation
- 4. Im Ausland studieren
- 5. Gesundheitsdienste
- 6. Unterschiede zwischen britischem und amerikanischem Englisch
- 7. Aspekte der englischen Medizinsprache
- 8. Reden bei medizinischen Tagungen: Präsentation eines Themas
- 9. Einen wissenschaftlichen Forschungsartikel schreiben
- 10. Akademische Fähigkeiten in medizinischem Englisch und Informationstechnologien

Recommended literature:

Barnau, A., Berešová, J., Džuganová, B. (2021) Academic Skills in Medical English. A Guide for Postgraduate Students. Martin: Vydavateľstvo Turany.

A monograph or professional textbook from the field that the postgraduate student studies according to the supervisor's recommendation.

Languages necessary to complete the course:

English language / German language

Notes:

Consultations and exams are provided individually during both semesters. The recommended and reserved time for personal meetings and exams is Friday.

Past grade distribution

Total number of evaluated students: 0

ABS0	M	NEABS
0,0	0,0	0,0

Lecturers: PhDr. Božena Džuganová, PhD.

Last change: 08.08.2023

COURSE DESCRIPTION

Academic year: 2022/2023

University: Comenius University Bratislava

Faculty: Jessenius Faculty of Medicine in Martin

Course ID: Course title:

JLF/3-JMVP-001/22 Methodology of Science Research

Educational activities:

Type of activities: Number of hours:

per week: per level/semester:

Form of the course: on-site learning, distance learning

Type, volume, methods and workload of the student - additional information

Lectures and seminar in the range of 16 teaching hours.

Form of teaching: full-time / part-time

Recommended range of instruction (in hours): 16 hours

Weekly: During the study period:

Study method: Presence

Number of credits: 10

rumber of creates. 10

Recommended semester:

Educational level: III.

Prerequisites:

Course requirements:

Active participation in a 2-day course Methodology of Scientific Work

Learning outcomes:

By completing the course, the doctoral student acquires basic information - theoretical knowledge and practical experience in the field of methodology of scientific work, including current legislation necessary for the organization and successful completion of doctoral studies, grant opportunities, methodology of science and principles of evidence-based medicine, as well as legal and ethical aspects of scientific work in the biomedical sciences, public health and nursing. He also acquires basic knowledge and practical skills in the field of statistical methods and presentation of the results of scientific work.

Class syllabus:

- Current state of doctoral studies in medical and non-medical health sciences in the Slovak Republic
- Grant system used to support science in Slovakia and the European Union, general principles of preparation of scientific projects
- The "motivation" factor in biomedical research and the life of a young researcher
- Ethical aspects of biomedical research
- Who's a good doctor? About science and art in medicine
- Basics and practical demonstrations of the use of statistical methods used in biomedical sciences, public health, and nursing
- Preparations and presentations of the results of scientific work (lecture, publication, written work for the dissertation exam and dissertation)
- Legal aspects of scientific work in biomedical sciences, public health and nursing
- Types of scientific methods

- Evidence Based Medicine, Plagiarism and publishing fraud
- Effective use of external resources, citation managers
- Bibliometric and citation databases (WoS / SCOPUS / CREPC / EviPUB) and publication literacy

Recommended literature:

Hanáček, J., Javorka, K., Čalkovská, A. a kol.: Základy vedeckovýskumnej práce: príručka pre doktorandov a mladých vedeckých pracovníkov. - 1. vyd. - Martin: Osveta, 2008. - 216 s. Čalkovská, A. Bóriková, I., Danko, J. a kol.: Vedecká príprava: učebnica pre študentov medicíny. - 1. vyd. - Martin: Osveta, 2010. - 220 s. ISBN 978-80-8063-328-8. Vyšlo aj v angl. mutácii - Martin: Osveta, 2011.

Languages necessary to complete the course:

English

Notes:

Past grade distribution

Total number of evaluated students: 0

ABS0	M	NEABS
0,0	0,0	0,0

Lecturers:

Last change: 08.08.2023