UNIVERSITY OF NOVI SAD
FACULTY OF MEDICINE

Study program: Doctoral Academic Studies in Biomedical Sciences

Course title: NEPHROLOGY AND COLLAGENOVASCULAR DISEASES

Teacher: Tatjana A. Ilić, Dejan M. Ćelić, Violeta V. Knežević, Milica S. Popović, Viktor E. Til, Velibor S. Čabarkapa, Branislava P. Ilinčić

Course status: elective

ECTS Credits: 20

Condition: -

The aim of course:

The aim of the study program "Nephrology and collagenovascular diseases" is to acquire knowledge from the scientific field of nephrology and clinical immunology, but also from the other fields of medicine which represent an inseparable part of the multidisciplinary scientific approach in the field of nephrology and clinical immunology, such as pathophysiology, radiology, nuclear medicine, etc. In addition to acquiring knowledge, participants will be trained to successfully adopt, evaluate and critically analyze innovations, ideas and aspirations in modern endocrinology, with the aim of enabling them to contribute to the development of the academic and professional community through their own research work. Finally, the aim of the study course is also to facilitate the realization of participants` research activities that will be the basis for their PhD thesis through the acquired knowledge and skills, along with the methodology of scientific work obtained during the entire doctoral academic studies.

Expected outcome of the course:

Participants will be acquainted with current scientific achievements in the field of endocrinology and will be enabled to successfully adopt, evaluate and critically analyze innovations, ideas and aspirations in this scientific field, with special reference to the correct interpretation of scientific content that carries open and unresolved scientific issues, which will be an excellent basis for their contribution to the development of the academic and professional community through their own innovative scientific research. In this way, through the acquired knowledge and skills, and with the methodology of scientific work adopted during the entire doctoral academic studies, the realization of participants` research activities that will be the basis for their PhD thesis will be facilitated.

Course description

Theoretical education

1. Use of SGLT-2 inhibitors from the nephrologist's perspective
2. The role of the complement system in kidney disease
3. Significance of genetics in nephrology on the example of Fabry disease.
4. Kidney disease in systemic connective tissue diseases.
5. Differential diagnosis of arthralgia.
6. Lupus nephritis - a new therapeutic approach.
7. Biological drugs in the treatment of inflammatory diseases.
8. Continuous methods of kidney function replacement in acute kidney disease.
9. Types and significance of anticoagulation in renal function replacement metaphors.
10. Significance of adsorption membranes / cytokine adsorbers in the treatment of septic patients with acute kidney disease.
11. Renovascular hypertension - a current approach in diagnosis and treatment.
12. Significance of renal artery resistance index in the prediction of transplanted kidney function.
13. Influence of previous active treatment of renal failure on kidney transplant function.
14. Rheumatoid arthritis - a modern therapeutic approach
15. Methods and interpretation of the results of functional diagnostics of diseases in nephrology.

Literature

Mandatory

1. Jameson JL, Fauci A, Kasper D, Hauser S, Longo D, Loscalzo J. Harrison's Principles of Internal Medicine. 20th ed. New York: McGraw-Hill; 2018.

2. Johannes WJ Bjilsma, Eric Haschulla. EULAR Textbook on Rheumatic Diseases. London, BMJ, 2018.

Additional

recommended by the mentor

Number of active classes	**Theory:** 60	**Practices**: 45

Teaching methods:

Mentoring, lectures, consultations, debates, discussions and essays

Student activity assessment (maximally 100 points)

lectures: 30

essay: 15
written exam: 55