Performance teaching plan

Transfusiology and transplantology

Academic year 2023/2024

Leader teaching: Jadranka Knežević, MD, PhD.

The Transfusiology and Transplantology teaching is a compulsory subject in the fifth year of the Department of Surgery at the Faculty of Medicine of the University of Mostar with 20 hours (7 hours of lectures, 5 hours of seminars and 8 hours of exercises). The teaching is conducted in the premises of the University Clinical Hospital Mostar.

Objective of the teching:

Demonstrate and adopt the basic knowledge and skills in the field of Transfusion and

Transplantology necessary for a doctor of medicine.

Teaching content:

Everything about donating whole blood and donor apheresis, safe blood.

Definition of voluntary blood donor.

Blood testing after collection from a voluntary donor

Testing of patients who need to be prescribed a blood product and pregnant women Immunohematological blood tests (ABO blood group, Rh factor, other blood group systems, indirect and direct Coombs test, cross test/compatibility test.

Testing for blood-borne diseases: Hepatitis B (HBsAg), Hepatitis C (anti HCV), AIDS (anti HIV, HIV Ag,) Syphilis (treponema pallidum).

Production of blood products (erythrocyte concentrate, platelet concentrate, fresh frozen plasma, washed erythrocytes, washed platelets, V group, filtered (leukodepleted preparations), pathogen inactivation, irradiated and their preservation.

Issuance of blood preparations according to the patient.

Treatment with blood products, post-transfusion reactions, haemovigilance

Transplantation medicine medicine, HLA tissue typing, crros match, bone marrow stem cell donor

register and collection of stem cells from peripheral blood

Autologous and allogeneic bone marrow transplantation

Transplantation of solid organs

Obligations of students:

Teaching is conducted in the form of lectures during which the teacher explains

the topic and encourages active and critical thinking of students and

participation in the discussion. Teachers and students discuss the specifics and

problems within each topic covered. Attendance records are kept for each

student. At the end of the class there is a written final exam.

Tem, number and form of

teaching unit

Topics, lectures, seminars, exercises and literature

Lecture 1,2 History of transfusiology

Blood donation,

Blood preparations (indications and application)

Seminar 1 Blood transmit diseases

Literature: This edition first published 2021

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Denise Harmening- Modern blood banking& Transfusion practices

(selected chapters)

Notes from lectures, seminars and exercise

Exercises 1,2,

Lecture 3,4 Blood groups ABO and Rh D and other blood group systems

Direct (DAT), Indirect (ICT) Coombs test, crossover test

Post-transfusion reactions, side effects of transfusion treatment

Seminar 2,3,4 Hemolytic disease of the newborn

The role of transfusion medicine in the treatment of patients

Hemostasis

Exercises 3,4,5

Lecture 5, 6, 7 Transplantology, history

Bone marrow stem cell donor registry

Post-transplantation reactions, side effects

Autologous and allogeneic bone marrow transplantation

Transplantation of solid organs

Seminar 5 HLA tissue typing, crros match, blood groups ABO and Rh D and other

blood group systems, molecular aspect

Literature:

Notes from lecturs, seminars and exercise

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23.01.2024. Tuesday

9,00-9,45	Lecture 1	History of transfusiology
9.45-10.30	Lecture 2	Blood donation, indications and application
10,30-11,15	Seminar 1	Blood-transmit diseases
11,15-12,00	Break	
12,00-12,45	Exercises	1
12,45-13,30	Exercises	2
13.30-14.15	Exercises	3

24.01.2024. Wednesday

9,00-9,45	Lecture 3	Blood groups ABO and Rh D and other blood group systems
9.45-10.30	Lecture 4	Direct (DAT), Indirect (ICT) Coombs test, crossover test
		Post-transfusion reactions, side effects of transfusion treatment
10.30-11.15	Seminar 2	Hemolytic disease of the newborn

11.15-12.00	Semin	ar 3	The role of transfusion medicine in the treatment of patients		
12.00- 12.45	Semin	ar 4	Hemostasis		
12.45-13.30 Break					
13.30-14.15 Exercises 3					
14.15-15.00 Exercises 4					
25.01.2024.Thursday					
9,00-9,45	Lecture 5	Transplan	ntology, history		
9.45-10.30	Lecture 6	Bone mar	rrow stem cell donor registry		
10.30-11.15	Lecture 7	Post-tran	nsplantation reactions, side effects		
		Autologo	ous and allogeneic bone marrow transplantation		
11.1512.00		Transpla	ntology in transfuziology		
		Transplar	ntation of solid organs		
12.00-12.45	Break				
12.45-13.30	Seminar 5	HLA ti	issue typing, crros match, blood groups molecular methode		
13.30-14.15 Exercises 6					
14.45-15.00	Exercises	7			

Lectures and seminars will be held at the School of Medicine.

Mostar on January 23-25, 2024.

15.00-15.45 Exercises 8

The exercises would be done at the Transfusion Center SKB Mostar

The exam will be held on Friday, January 26, 2024. according to agreement (The proposal is at 10 a.m. at the Faculty of Medicine in Mostar - secure space).

Exam

The final exam is a written and oral exam for a higher grade.

The student succeeds on the basis of the solved questions on the test, of which 50% of the correct answers to the questions in the test must be satisfied in order to pass

A= 91-100% 5 (excellent)

B = 79 to 90% 4 (very good)

C = 67 to 78% 3 (good)

D = 55 to 66% 2 (sufficient)

F = 0 to 54% 1 (insufficient)

Literature:

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Notes from lectures, seminars and exercise