

GAZI UNIVERSITY FACULTY OF MEDICINE**YEAR III, 2022-2023****NEOPLASIA AND HEMATOPOIETIC SYSTEM COURSE COMMITTEE****October 18 - November 10 2022****Examination: November 11, 2022 09:30 AM**

Courses	Theoretical	Laboratory	Practice	Courses
INTERNAL MEDICINE (Hematology)	15			15
INTERNAL MEDICINE (Oncology)	2			2
PEDIATRICS (Hematology)	9			9
PEDIATRICS (Oncology)	3			3
PEDIATRICS (Allergy-Immunology)	1			1
MEDICAL PATHOLOGY	10			10
MEDICAL MICROBIOLOGY	6	1x8		7
MEDICAL PHARMACOLOGY	4			4
PUBLIC HEALTH	2			2
IMMUNOLOGY	2			2
MEDICAL GENETICS	2			2
NUCLEAR MEDICINE	1			1
RADIOLOGY	1			1
TOTAL	58	1		59
ELECTIVE COURSE	4x2			8
MEDICAL ENGLISH	4x2			8
TOTAL				16
FREE RUN-TIME				44

Total: 15 work days

Medical English: Starting from September 26, 2022. It is every wednesday between 1:30 pm and 3:20 pm.

Elective Course: Starting from September 26, 2022. It is every wednesday between 3:30 pm and 5:20 pm.

Dean	Prof. Dr. Mustafa Necmi İLHAN
Vice Dean	Doç. Dr. İlyas OKUR
Vice Dean	Doç. Dr. Özlem GÜZEL TUNÇCAN
Head Coordinator	Prof. Dr. Çiğdem ÖZER
Assistant Head Coordinator	Prof. Dr. Akif Muhtar ÖZTÜRK
Assistant Head Coordinator(Eng)	Prof. Dr. M. Ali ERGÜN
Year III Coordinator	Assoc.Prof.Dr. Nazmi Mutlu KARAKAŞ
Assistant Year III Coordinator(Eng)	Assoc.Prof.Dr. Ergin DİLEKÖZ
Assistant Year III Coordinator(Eng)	Assoc Prof.Dr. Hale Zeynep BATUR ÇAĞLAYAN
Assistant Year III Coordinator	Assoc.Prof.Dr. Muhittin YALÇIN
Assistant Year III Coordinator	Asist. Prof.Dr. Burak SEZENÖZ
Assistant Year III Coordinator	Asist. Prof.Dr Mehmet Arda İNAN

Clinical Skills Education (CSE) Coordinator	Doç .Dr. Melda AYBAR TÜRKOĞLU
Problem Based Learning (PBL) Coordinator	Doç. Dr. Özlem COŞKUN
Evidence Based Medicine (EBM) Coordinator	Prof. Dr. Mehmet Ali ERGÜN
Elective Course Coordinator	Assoc. Prof. Dr. Ergin DİLEKÖZ
Medical English	Lecturer Elif KONAK BABAL

MEMBERS OF COURSE COMMITTEE

INTERNAL MEDICINE (Hematology)	PEDIATRICS (Hematology)	PEDIATRICS (Oncology)	MEDICAL MICROBIOLOGY
Dr. Münci YAĞCI Dr. Z. Arzu YEGİN	Dr. Ülker KOÇAK Dr. Deniz ASLAN Dr. Zühre KAYA	Dr. F.Güçlü PINARLI Dr. Özge VURAL	Dr.Meltem YALINAY Dr.Funda DOĞRUMAN-AL Dr. Ayşe KALKANCI
		PEDIATRICS (Allergy-Immunology) Dr. Arzu BAKIRTAŞ	
INTERNAL MEDICINE (Oncology)	RADIOLOGY	MEDICAL PATHOLOGY	PUBLIC HEALTH
Dr. Ozan Yazıcı	Dr. Gonca ERBAŞ	Dr. Gülen AKYOL Dr. Nalan AKYÜREK	Dr. Asiye UĞRAŞ DİKMEN
MEDICAL GENETICS	NUCLEAR MEDICINE	MEDICAL PHARMACOLOGY	IMMUNOLOGY
Dr. Mehmet Ali ERGÜN	Dr.L.Özlem ATAY	Dr. Süreyya BARUN	Dr.E.Ümit BAĞRIAÇIK

AIM AND LEARNING OBJECTIVES OF COURSE

Aim: Following 12 days of Neoplasia and Hematopoietic system committee education, the students are expected to gain knowledge about the prevalence, importance, underlying mechanisms and diagnostic methods of neoplastic and hematopoietic system diseases, and, therapeutic agents and their mechanisms of action, built up on through understanding of the formation, development and pathology of hematopoietic system and tumor formation, development and pathophysiology.

LEARNING OBJECTIVES:

Knowledge:

1. To be able to describe the concepts of embryonic stem cells, induced pluripotent stem cells and hematopoietic stem cells, to define hematopoietic stem cell and bone marrow micro environmental relationship, to summarize the bone marrow structure and function.
2. To be able to define the term bone marrow failure, to sort and list clinical and laboratory findings of the disease, to list the frequently observed causes of bone marrow failure, to be capable of approaching for preliminary and differential diagnosis.
3. To be able to list the causes of anemia which are common in childhood and adulthood, to list clinical and laboratory findings of anemia, to make differential diagnosis between the causes of anemia.
4. To be able to comprehend the physiology of iron-metabolism, to sort the clinical and pathological conditions observed frequently in iron metabolism, to summarize clinical and laboratory findings.
5. To be able to list the etiological factors of iron deficiency anemia, to tell clinical and laboratory findings and to make the differential diagnosis, to learn and comprehend the treatment methods and treatment follow-up, to sort the risk groups for iron deficiency and preventive measures and treatments.
6. To be able to define the concepts of megaloblastic and macrocytosis, to be able to list the etiological factors of megaloblastic anemia and macrocytosis, to be able to describe the absorption, transport and reactions of cobalamin and folic acid that are taking place in megaloblastic anemia physiopathology, to list the pathological and clinical conditions of cobalamin and folic acid metabolism, leading to megaloblastic anemia, the clinical and laboratory findings, the diagnosis and treatment methods, to be able to tell daily requirements for cobalamin and folic acid, to summarize risk groups and preventive measures for cobalamin and folate deficiency.

7. To be able to understand the concepts of coagulation and physiology of fibrinolysis in the context of haemostasis physiology, to classify congenital or acquired primary and secondary hemostasis disorders and list the clinical and laboratory findings, to make differential diagnosis between hemorrhagic disorders, to describe the examination approach to a hemorrhagic patient, and to interpret first-step diagnostic tests.
8. To be able to identify the concepts of haemolysis and haemolytic anemia, to list the etiological factors of haemolysis and to classify the haemolytic anemia appropriately, to list the differences between immunological and non-immunological hemolytic anomalies, to list the differences between intravascular and extravascular haemolysis, to list diagnostic methods and clinical and laboratory findings of a hemolytic anemia patient, to be able to differentiate between hemolytic anemia and other diseases those may be misdiagnosed.
9. To be able to interpret clinical and laboratory findings of hereditary hemolytic anemia, to explain the physiological role of erythrocyte membrane skeleton, to list and describe the names of crucial membrane proteins, and how deficiency of these proteins would effect the membrane and the shape of the erythrocyte, to interpret the hemolysis mechanisms and the role of spleen in hereditary spherocytosis, to describe clinical and laboratory findings, and, complications of hereditary spherocytosis and elliptocytosis, to describe the clinical manifestation of erythrocyte enzyme deficiencies, to classify the erythrocyte enzyme deficiencies, to list physiopathological, clinical and laboratory features of hereditary hemoglobin disorders and thalassemia syndromes, to comprehend the differential diagnostic and therapeutic methods, to sort and list the preventive techniques.
10. To be able to list the thrombotic events frequently observed in childhood and adulthood, to summarize the physiopathological progress and clinical and laboratory findings of thrombosis, to describe risky factors for thrombosis and preventive measures.
11. To be able to list the blood components and basic properties of these components, to explain the additional procedures applied to the blood components and the necessities of these procedures, to list the indications of the blood component therapy, to describe the basic principles to be followed during the blood component transfusion and the possible adverse effects that can develop.
12. To be able to define myeloproliferative diseases, to understand the pathophysiology of myeloproliferative diseases, to know the clinical and laboratory characteristics of myeloproliferative diseases, to list and explain the required diagnostic test for myeloproliferative diseases and how to interpret the test results, to discriminate myeloproliferative diseases.

13. To be able to classify the pathophysiology of lymphoma, to summarize the clinical and laboratory findings, and, diagnostic methods.
14. To be able to sort the types of plasma cell dyscrasias, to describe the common features and the differences, clinical and laboratory findings, diagnostic methods of diseases in this group.
15. To be able to describe the factors that play a role in the etiopathogenesis of neoplasia, be able to comprehend the cytopathology, genetics and physiopathology of cancer, possess knowledge about basic definitions.
16. To be able to sort and describe the common cancer types, their importance in terms of community health, diagnostic features and early diagnosis methods, to comprehend the importance of early diagnosis.
17. To be able to explain laboratory methods used in cancer diagnosis, be able to list microorganisms which may cause infections in immunosuppressive patients, be able to explain viruses with oncogenic potential and their contributions to pathogenesis.
18. To be able to explain the principles of cancer treatment, pharmacokinetics, pharmacodynamics, effects and complications of chemotherapeutics, to know surgical approaches used in cancer treatment, to explain treatment options with radiotherapy.
19. To be able to explain environmental factors that can affect health (air pollution, water pollution, wastes, etc.), to list chronic diseases and explain the ways of prevention, to be able to define the concept of early diagnosis and be able to list early diagnosis methods for chronic diseases, be able to describe nutrition and health relation.
20. To be able to know normal lymph node histology and basic reactive lymphadenopathy patterns.
21. To be able to identify the lymphadenitis and to list the lymphadenitis types.
22. To be able to list common causes of lymphadenopathy.
23. To be able to classify the lymph node and spleen tumors.
24. To be able to cite the causes that often lead to splenomegaly, to define hypersplenism and list its causes.
25. To be able to know and list the Hodgkin lymphoma etiopathogenesis, histological classification, clinical features and staging.
26. To be able to describe the basic classification of non-Hodgkin's lymphomas and the properties of different types.
27. To be able to distinguish Hodgkin and non-Hodgkin lymphomas.
28. To be able to define neoplasms with histiocytic and dendritic cells.
29. To be able to know the basic features of Langerhans cell histiocytosis.

Skills:

30. To be able to enumerate and apply the diagnostic methods used for the laboratory diagnosis of opportunistic fungal infections, be able to collect samples and apply planting techniques.

Attitude:

31. To be able to comprehend the importance of hematologic and oncologic diseases and to develop a viewpoint of preventive medicine, to be able to define physician identity, deontology, medical ethics, ethics-deontology-law relation

	October 17, 2021 MONDAY	October 18, 2021 TUESDAY	October 19, 2021 WEDNESDAY	October 20, 2021 THURSDAY	October 21, 2021 FRIDAY
08:30-09:15	YEAR III COURSE I EXAM	Free Run-Time	Free Run-Time	Free Run-Time	Free Run-Time
09:30-10:15		The nomenclature of tumors Dr. G. Akyol	Oncogenic viruses Dr.A.Kalkançı	Epidemiology of cancer Dr. A. Uğraş Dikmen	Free Run-Time
10:30-11:15		The nomenclature of tumors Dr. G. Akyol	Tumor progression D. G. Akyol	Epidemiology of cancer Dr. A. Uğraş Dikmen	Early Diagnosis and Cancer screening Dr.O. Yazıcı
11:30-12:15		The etiopathogenesis of cancer D. G. Akyol	Metastasis Dr. G. Akyol	Childhood cancer and predisposition to malignancy Dr. G. Pınarlı	Etiology and epidemiology of cancer and principals of treatment Dr.O. Yazıcı
13:30-14:15	Free Run-Time	The etiopathogenesis of cancer D. G. Akyol	MEDİCAL ENGLISH	Evidence based cancer genetics and cytogenetics Dr. M. Ali Ergün	General principles of cancer treatment and cytotoxic drugs Dr. S. Barun
14:30-15:15	Free Run-Time	Tumor growth and heterogeneity D. G. Akyol	MEDİCAL ENGLISH	Evidence based cancer genetics and cytogenetics Dr. M. Ali Ergün	General principles of cancer treatment and cytotoxic drugs Dr. S. Barun
15:30-16:15	Free Run-Time	Free Run-Time	ELECTIVE COURSE	The epidemiology and etiology of childhood Cancers Dr. Özge Vural	Free Run-Time
16:30-17:15	Free Run-Time	Free Run-Time	ELECTIVE COURSE	Signs and symptoms of childhood cancer Dr. Özge Vural	Free Run-Time

	October 24, 2022 MONDAY	October 25, 2022 TUESDAY	October 26, 2022 WEDNESDAY	October 27, 2022 THURSDAY	October 28, 2022 FRIDAY
08:30-09:15	LABORATORY MICROBIOLOGY	Free Run-Time	Free Run-Time	YEAR II COURSE I EXAM	Free Run-Time
09:30-10:15		Tumor immunology Dr. Ü. Bağrıaçık	The classification, pathophysiology and diagnosis of anemias Dr. M. Yağcı		Free Run-Time
10:30-11:15		Tumor immunology Dr. Ü. Bağrıaçık	Hemolysis Dr. M. Yağcı		Free Run-Time
11:30-12:15		The structure and function of bone marrow Dr. M. Yağcı	Targeted cancer treatment and monoclonal antibodies Dr. S. Barun		Free Run-Time
13:30-14:15	LABORATORY MICROBIOLOGY	The structure and function of bone marrow Dr. M. Yağcı	MEDICAL ENGLISH	Free Run-Time	29 OCTOBER REPUBLIC DAY
14:30-15:15		The classification, pathophysiology and diagnosis of anemias Dr. M. Yağcı	MEDICAL ENGLISH	Free Run-Time	
15:30-16:15		Free Run-Time	ELECTIVE COURSE	Free Run-Time	
16:30-17:15		Free Run-Time	ELECTIVE COURSE	Free Run-Time	

	October 31, 2022 MONDAY	November 1, 2022 TUESDAY	November 2, 2022 WEDNESDAY	November 3, 2022 THURSDAY	November 4, 2022 FRIDAY
08:30-09:15	Free Run-Time	Free Run-Time	Free Run-Time	Hemoglobinopathies Dr. D. Aslan	YEAR I COURSE I EXAM
09:30-10:15	Hemostasis and abnormalities Tendency to bleeding Tendency to thrombosis Dr. Z.A. Yeğın	The metabolism and abnormalities of iron; Iron deficiency Iron overload Dr. Z.A. Yeğın	Drugs used in the treatment of anemia Dr. S. Barun	Hemoglobinopathies Dr. D. Aslan	
10:30-11:15	Hemostasis and abnormalities Tendency to bleeding Tendency to thrombosis Dr. Z.A. Yeğın	Megaloblastic anemias Dr. Z.A. Yeğın	Approach to patient with hemophilia and bleeding disorders in childhood Dr. Z. Kaya	Plasma cell disorders Dr. Z.A. Yeğın	
11:30-12:15	The metabolism and abnormalities of iron; Iron deficiency Iron overload Dr. Z.A. Yeğın	Megaloblastic anemias Dr. Z.A. Yeğın	Approach to patient with hemophilia and bleeding disorders in childhood Dr. Z. Kaya	Bone marrow failure Dr. Z.A. Yeğın	
13:30-14:15	Approach to anemia during childhood Dr. Ü. Koçak	The pathology of lymphadenopathy and splenomegaly Dr. N. Akyürek	MEDICAL ENGLISH	Basic principles of transfusion Dr. Ü. Koçak	
14:30-15:15	Approach to anemia during childhood Dr. Ü. Koçak	The pathology of lymphadenopathy and splenomegaly Dr. N. Akyürek	MEDICAL ENGLISH	Basic principles of transfusion Dr. Ü. Koçak	Free Run-Time
15:30-16:15	Free Run-Time	The pathology of lymphadenopathy and splenomegaly Dr. N. Akyürek	ELECTIVE COURSE	Thrombosis during childhood Dr. Ü. Koçak	Free Run-Time
16:30-17:15	Free Run-Time	Free Run-Time	ELECTIVE COURSE	Free Run-Time	Free Run-Time

	November 7, 2022 MONDAY	November 8, 2022 TUESDAY	November 9, 2022 WEDNESDAY	November 10, 2022 THURSDAY	November 11, 2022 FRIDAY
08:30-09:15	Free Run-Time	Free Run-Time	Free Run-Time	Free Run-Time	YEAR III COURSE II EXAM
09:30-10:15	Myeloproliferative disorders Dr. M. Yağcı	Microbiological approach to immunosuppressive patients Dr. A. Kalkancı	Free Run-Time	Free Run-Time	
10:30-11:15	Lymphomas Dr. M. Yağcı	Opportunistic yeast infections Dr. A. Kalkancı	Free Run-Time	Free Run-Time	
11:30-12:15	Radiologic imaging in hematopoietic system diseases Dr. G. Erbaş	Opportunistic mold infections and pneumocystis Dr. A. Kalkancı	Free Run-Time	Free Run-Time	
13:30-14:15	Nuclear Medicine in Oncology and Hematology Dr.L.Ö.Atay	Viral infection agents in immunosuppressive patients 1: Poliomaviruses and papilloma viruses Dr. M. Yalınay	MEDICAL ENGLISH	Free Run-Time	
14:30-15:15	Immune deficiencies Dr A. Bakırtaş	Viral infection agents in immunosuppressive patients 2: Retroviruses Dr. F. Doğruman-Al	MEDICAL ENGLISH	Free Run-Time	YEAR III COURSE III LESSONS
15:30-16:15	Free Run-Time	Free Run-Time	ELECTIVE COURSE	Free Run-Time	
16:30-17:15	Free Run-Time	Free Run-Time	ELECTIVE COURSE	Free Run-Time	

EXAM
November 11, 2021
09:30 AM