



GROWTH, DEVELOPMENT, MENTAL HEALTH AND RELATED DISORDERS

YEAR 3 COURSE 4

March 02 – April 16, 2020

Year 3 Coordinators

Prof., Arzu Akşit İLKİ & Assoc. Prof., Pınar Mega TİBER & Assist. Prof., İlke AKÇAY

Module Coordinator

Prof., Özlem SARIKAYA

Inst. Dr. Duygu GENCALP

Introduction to Clinician Skills (ICS)

Coordinators

Prof., Pemra ÜNALAN

Assoc. Prof., Nilüfer GÜZOĞLU

Coordinator of Clinical Skill Lab.

Prof., Pemra ÜNALAN

Assist. Prof., Bülent SEZGİN

Coordinator of ICS Res. Lab.

Prof., Pemra ÜNALAN

Inst. Dr. Özge EKER

Coordinator of Multidiciplinary Students' Lab.

Assoc. Prof., Betül KARADEMİR

Assist. Prof., Mümtaz GÜRAN

Coordinator of Assessment Unite

Assist. Prof., Cevdet NACAR

Assist. Prof., H. Eren SAKALLI

Vice-Chief Coordinators

Assessment

Assist. Prof., Cevdet NACAR

Assist. Prof., H. Eren SAKALLI

Student Affairs

Assist. Prof., Can ERZİK

Inst. Yönter Meray

Chief Coordinator

Assoc. Prof., Hasan YANANLI

Assist. Prof., Mümtaz GÜRAN

Coordinator of Medical Education Program Evaluation and Development Commission

Prof., Berrak Ç. YEĞEN

Educational Consultant

Assoc. Prof., Mehmet Ali GÜLPINAR

Dean (EMU)

Assoc. Prof., Emre HAMURTEKİN

Dean (MU)

Prof., Hakan GÜNDÜZ

LEARNING OUTCOMES / COMPETENCIES	
A.	Clinical Care: Qualified patient care and community oriented health care 1. Basic clinical skills 2. The organization and management of the patient and the patient care 3. The organization and the management of health care delivery services / system 4. Health promotion and disease prevention
B.	Medical Knowledge and Evidence-Based Medicine 5. Appropriate information retrieval and management skills 6. The integration of knowledge, critical thinking and evidence-based decision making 7. Scientific methods and basic research skills
C.	Professional Attitudes and Values 8. Communication skills and effective communication with patients / patient relatives 9. Interpersonal relationships and team working 10. Ethical and professional values, responsibilities 11. Individual, social and cultural values and responsibilities 12. Reflective practice and continuing development 13. Healthcare delivery systems, management and community oriented health care 14. Education and counseling
PHASE-1 LEARNING OBJECTIVES	
1.	Understanding the normal structures and functions of human body
2.	Correlating the basic concepts and principles to each other that define health and disease; applying basic concepts and principles to health and disease conditions
3.	Developing clinical problem solving, clinical reasoning and evaluation skills by integrating biomedical, clinical, social and humanities knowledge
4.	Gaining basic clinical skills by applications in simulated settings.
5.	Awareness of the professional values in health and disease processes (professional, individual, societal) and acquisition necessary related skills
6.	Evaluating critically and synthesizing all the medical evidence and perform respecting scientific, professional and ethical values
7.	Acquisition skills in reflective thinking and practicing, being open to continuous individual / professional development.
PHASES – 1 THEMA/ORGAN SYSTEM-BASED COURSE PROGRAMS	
Year 1, Course 1: Introduction to Cell and Cellular Replication	
Year 1, Course 2: Cellular Metabolism and Transport	
Year 1, Course 3: Development and Organization of Human Body	
Year 1, Course 4: Introduction to Nervous System and Human Behavior	
Year 2, Course 1: Cell and Tissue Injury I	
Year 2, Course 2: Cell and Tissue Injury II	
Year 2, Course 3: Hematopoietic System and Related Disorders	
Year 2, Course 4: Musculoskeletal, Integumentary Systems and Related Disorders	
Year 2, Course 5: Respiratory System and Related Disorders	
Year 3, Course 1: Cardiovascular System and Related Disorders	
Year 3, Course 2: Gastrointestinal System, Metabolism and Related Disorders	
Year 3, Course 3: Nervous System and Related Disorders	
Year 3, Course 4: Growth, Development, Mental Health and Related Disorders	
Year 3, Course 5: Urinary and Reproductive System and Related Disorders	

GROWTH, DEVELOPMENT, MENTAL HEALTH AND RELATED DISORDERS

AIM and LEARNING OBJECTIVES of COURSE

Aim: At the end of this committee, third year students will gain knowledge about the structure, functions and the pathogenesis of the disorders related to endocrine system. During this committee students will gain a comprehensive view on the health problems of the certain periods of human life cycle such as childhood, adolescents and elderly with a specific emphasis on the growth, development and mental health. They will also gain knowledge about the signs and symptoms of endocrine disorders, psychiatric disorders, related risk factors, prevention, diagnosis and principles of treatment.

Learning Objectives: At the end of this course, third year students will,

review the development, histology and structure of the endocrine system,

- understand the principles of endocrine homeostasis and hormone action, define the pathologic processes in endocrine and mental disorders,
- get knowledge about growth, development and monitoring in childhood,
- gain knowledge about the risk factors and preventive measures related to endocrine and mental disorders,
- gain knowledge about the major signs and symptoms of endocrine and mental disorders, explain the main determinants of health,
- explain the importance and the effects of social, environmental and life style factors on mental and physical health,
- gain knowledge about the approach to diagnosis and principles of treatment in endocrine and mental disorders.

ASSESSMENT SYSTEM

Module examination: Written exam at the end of module (10 % of final score)

Practical examination: Practical exams at the end of course

Course examination: Written exam at the end of course

PROGRAM EVALUATION

Evaluation at the end of the course, is done both orally and by using structured evaluation forms

DEPARTMENTS PARTICIPATING IN COURSE-3.4

- Anatomy
- Biochemistry
- Child and Adolescent Psychiatry
- Family Medicine
- Histology and Embryology
- Internal Medicine
- Medical Genetics
- Nuclear Medicine

- Pathology
- Pediatrics
- Pharmacology
- Physiology
- Psychiatry
- Public Health
- Radiology

LECTURERS / TUTORS

Alper Yıldırım, Assoc. Prof., Physiology
Ahmet Arman, Professor, Medical Genetics
Ahmet Topuzoğlu, Professor, Public Health
Amber Eker Bakkaloğlu, Assoc. Prof., Neurology
Atila Karaalp, Professor, Pharmacology
Axel Würz, Instructor, Psychiatry
Aymelek Yalın, Professor, Anatomy
Ayşe Burcu Ataz, Assoc. Prof, Child and Adolescent Psychiatry
Berfu Çerçi Öngün, Instructor, Anatomy
Beste Melek Atasoy, Professor, Internal Medicine
Bülent Sezgin, Assist. Prof., Internal Medicine
Cemal Gürkan, Instructor, Forensic Sciences
Cihan Tüccar, Inst., Clinical Skills
Didem Rıfkı, Inst., Clinical Skills
Dilek Gogas Yavuz, Professor, Internal Medicine
Dilşad Save, Professor, Public Health
Emine Özerinç, Instructor, Turkish Language
Filiz Onat, Professor, Pharmacology
Goncagül Haklar, Professor of Biochemistry
Halil Eren Sakallı, Assist. Prof, Pharmacology
Hande Tuğcan, Inst., Indian Dance
Hızır Kurtel, Professor, Physiology
Huriye Nursel Elçioğlu, Professor, Pediatrics
Hülya Gözü, Professor, Internal Medicine
İlke Akçay, Assist. Prof, Biostatistics
İlter Güney, Assoc. Prof, Medical Genetics

Masoud Afshani, Assist. Prof, Histology and Embryology
Mesut Yıldız, Assoc. Prof, Psychiatry
Nahide Gökçora, Professor, Nuclear Medicine
Nevin Yılmaz, Prof., Internal Medicine/ Gastroenterology
Nilüfer Güzoğlu, Assoc. Prof., Neonatology
Nimet Emel Lüleci, Professor, Public Health
Nurtane Karagil, Instructor, Arts and Crafts
Onur Buğdaycı, Assist. Prof., Radiology
Özge Eker, Inst., Molecular Biology and Genetics
Önder Şirikçi, Prof., Biochemistry
Özlem Sarıkaya, Professor of Medical Education
Özlem Tuğçe Kaya, Instructor, Histology and Embryology
Özlem Üstüy, Assoc. Prof, Internal Medicine
Pelin Bağcı, Prof., Pathology
Saime Batırel, Assoc. Prof, Medical Biochemistry
Serap Çifçili, Professor, Family Medicine
Tülay Güran, Professor, Pediatrics
Volkan Topçuoğlu, Professor, Psychiatry
Yasemin Kurtoğlu, Inst., Aerial Fitness
Yaşar İnci Alican, Professor, Physiology
Yıldız Akvardar, Professor, Psychiatry
Zafer Gören, Professor, Pharmacology
Zeliha Leyla Cinel, Professor, Pathology

READING / STUDYING MATERIALS

- Williams Textbook of Endocrinology. 10th ed./P.Reed Larsen. et al.
- Joslin's Diabetes Mellitus. 14th ed./ Edited by C. Ronald Kahn et al.
- Kaplan & Sadock's Comprehensive Textbook of Psychiatry. Editors, Benjamin J.,Sadock, Virginia A. Sadock.
- Nelson Textbook of Pediatrics.17th ed./Richard E. Behrman, Robert M. Kliegman, Hal B. Jenson.
- Basic Pathology. Vinay Kumar, Ramzi S. Cotran, Stanley L. Robbins.
- Color Textbook of Histology. Leslie P. Gartner, James L. Hiatt
- Histology and Cell Biology: An Introduction to Pathology. Abraham L.Kierszenbaum
- Clinical Pharmacology. D.R. Laurence, P.N. Bennet, M.J. Brown Clinical Anatomy for Medical Students. Richard S. Snell Textbook of Medical Physiology. Arthur C. Guyton, John E. Hall

SUMMARY OF THE COURSE 3.4			
Discipline	Lecture & Group Discussion	Multidisciplinary Lab. & Clinical Skills Lab. Practice	Total
Anatomy	1	1	2
Biochemistry	12		12
Child and Adolescent Psychiatry	5		5
Family Medicine	4		4
Histology and Embryology	4	2	6
Internal Medicine	17		17
Medical Genetics	4		4
Nuclear Medicine	1		1
Pathology	6	1	7
Pediatrics	11		11
Pharmacology	13		13
Physiology	12		12
Psychiatry	20		20
Public Health	12		12
Radiology	1		1
Subtotal	123	4	127
PBL Module	8		8
ICS-3: Basic Medical Practices, Clinical Skills Lab.		28	28
Turkish for Medical Students - IV	26		26
Turkish for Medical Students – IV (Interactive Session)		7	
Elective Course	8		8
TOTAL	165	39	204

	THEORETICAL AND PRACTICAL SESSIONS	LECTURER/TUTOR
WEEK 1 (March 02-06, 2020)		
Monday	March 02	
08:40-09:30	STUDY TIME	
09:40-10:30	STUDY TIME	
10:40-11:30	STUDY TIME	
11:40-12:30	STUDY TIME	
13:40-14:30	Turkish for Medical Students - IV	Inst. Emine Özerinç
14:40-15:30	Turkish for Medical Students - IV	Inst. Emine Özerinç
15:40-16:30	Turkish for Medical Students - IV	Inst. Emine Özerinç
	Elective Course-III (Turkish Students) MDCN181 – Th. and Applied Forensic Sciences MDCN182 – Art & Craft for Medicine Students MDCN186 – Modern Indian Dance Course MDCN187 – Aerial Fitness & High Int. Interval Tr.	Dr. Cemal Gürkan Inst. Nurtane Karagil Inst. Hande Tuğcan Inst. Yasemin Kurtoğlu
	Turkish for Medical Students - IV	Inst. Emine Özerinç
	Elective Course-III (Turkish Students) MDCN181 – Th. and Applied Forensic Sciences MDCN182 – Art & Craft for Medicine Students MDCN186 – Modern Indian Dance Course MDCN187 – Aerial Fitness & High Int. Interval Tr.	Dr. Cemal Gürkan Inst. Nurtane Karagil Inst. Hande Tuğcan Inst. Yasemin Kurtoğlu
Tuesday	March 03	
08:40-09:30	STUDY TIME	
09:40-10:30	Introduction to the course	Dr. İlke Akçay
10:40-11:30	Thyroid and parathyroid glands	Dr. Aymelek Yalın
11:40-12:30	Anatomy LAB: Thyroid and parathyroid glands	Dr. Aymelek Yalın Dr. Befu Çerçi Öngün
13:40-14:30	Hypothalamus and the growth hormone	Dr. Alper Yıldırım
14:40-15:30	Hypothalamus and the growth hormone	Dr. Alper Yıldırım
15:40-16:30	Adrenal medullary hormones	Dr. Alper Yıldırım
16:40-17:30		
Wednesday	March 04	
08:40-09:30	Turkish for Medical Students - IV	Inst. Emine Özerinç
09:40-10:30	Turkish for Medical Students - IV	Inst. Emine Özerinç
10:40-11:30	Turkish for Medical Students - IV	Inst. Emine Özerinç
11:40-12:30	Turkish for Medical Students - IV	Inst. Emine Özerinç
13:40-14:30	Biosynthesis and metabolism of thyroid hormones	Dr. Goncagül Haklar

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14:40-15:30	Biosynthesis and metabolism of thyroid hormones	Dr. Goncagül Haklar
15:40-16:30	Endocrine function of pancreas	Dr. Goncagül Haklar
16:40-17:30	Endocrine function of pancreas	Dr. Goncagül Haklar
Thursday	March 05	
08:40-09:30	STUDY TIME	
09:40-10:30	Pharmacotherapy of disorders of calcium metabolism	Dr. Eren Sakallı
10:40-11:30	Endemic goiter	Dr. Nimet Emel Lüleci
11:40-12:30	Turkish for Medical Students – IV (Interactive Session)	Inst. Emine Özerinç
13:40-14:30	Turkish for Medical Students - IV	Inst. Emine Özerinç
14:40-15:30	Turkish for Medical Students - IV	Inst. Emine Özerinç
15:40-16:30	Turkish for Medical Students - IV	Inst. Emine Özerinç
16:40-17:30	STUDY TIME	
Friday	March 06	
08:40-09:30	ICS-3: Polyclinic Visits	Dr. Bülent Sezgin Dr. Didem Rıfki Dr. Cihan Tüccar Ins. Emine Özerinç
09:40-10:30	ICS-3: Polyclinic Visits	
10:40-11:30	ICS-3: Polyclinic Visits	
11:40-12:30	ICS-3: Polyclinic Visits	
13:40-14:30	ICS-3: Polyclinic Visits	Dr. Bülent Sezgin Dr. Didem Rıfki Dr. Cihan Tüccar Ins. Emine Özerinç
14:40-15:30	ICS-3: Polyclinic Visits	
15:40-16:30	ICS-3: Polyclinic Visits	
16:40-17:30	ICS-3: Polyclinic Visits	
WEEK 2 (March 09-13, 2020)		
Monday	March 09	
08:40-09:30	ICS-3 Research: Data analysis	Dr. İlke Akçay, Dr. Özge Eker
09:40-10:30	ICS-3 Research: Data analysis	Dr. İlke Akçay, Dr. Özge Eker
10:40-11:30	ICS-3 Research: Data analysis	Dr. İlke Akçay, Dr. Özge Eker
11:40-12:30	ICS-3 Research: Data analysis	Dr. İlke Akçay, Dr. Özge Eker
13:40-14:30	Turkish for Medical Students - IV	Inst. Emine Özerinç
14:40-15:30	Turkish for Medical Students - IV	Inst. Emine Özerinç
15:40-16:30	Turkish for Medical Students - IV	Inst. Emine Özerinç
	Elective Course-III (Turkish Students) MDCN181 – Th. and Applied Forensic Sciences MDCN182 – Art & Craft for Medicine Students MDCN186 – Modern Indian Dance Course MDCN187 – Aerial Fitness & High Int. Interval Tr.	Dr. Cemal Gürkan Inst. Nurtane Karagil Inst. Hande Tuğcan Inst. Yasemin Kurtoğlu

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16:40-17:30	Turkish for Medical Students - IV	Inst. Emine Özerinç
	Elective Course-III (Turkish Students) MDCN181 – Th. and Applied Forensic Sciences MDCN182 – Art & Craft for Medicine Students MDCN186 – Modern Indian Dance Course MDCN187 – Aerial Fitness & High Int. Interval Tr.	Dr. Cemal Gürkan Inst. Nurtane Karagil Inst. Hande Tuğcan Inst. Yasemin Kurtoğlu
Tuesday	March 10	
08:40-09:30	STUDY TIME	
09:40-10:30	Genetic disorders of thyroid and parathyroid glands	Dr. Ahmet İlter Güney
10:40-11:30	Genetic basis of diabetes mellitus	Dr. Ahmet İlter Güney
11:40-12:30	Genetic basis of sexual differentiation	Dr. Ahmet İlter Güney

Kovid-19 pandemisi sebebiyle 10 Mart 2020 tarihinden itibaren sınıfta eğitime ara verilmiştir ve uzaktan eğitim yoluyla devam edilmektedir.

Due to the Covid-19 pandemic, education in classrooms has been suspended and continues through distance learning.

<https://medicine.emu.edu.tr/en/students/current-students/committees/distance-learning-time-table>