|  |  |  |  |
| --- | --- | --- | --- |
| **C:\Users\Namariel\Downloads\TıpF (1)\TıpF\TıpF-2.png**  **MARMARA UNIVERSITY SCHOOL of MEDICINE** | | | |
| **cardiovascular.gif**  CARDIOVASCULAR SYSTEM AND RELATED DISORDERS  YEAR 3 COURSE 1  September 05 – October 21, 2022 | | | |
| **Coordinator of the Course 3.1**  Prof. Beste ÖZBEN SADIÇ | | **Coordinator of the Module 3.1**  Dr.Halil ATAŞ | |
| **Year 3 Coordinators**  Prof. Arzu İLKİ & Assoc. Prof. Pınar Mega TİBER | | | |
| **Module Coordinator**  Prof. Rezzan GÜLHAN  Assist. Prof. Sinem YILDIZ İNANICI | | **Introduction to Clinical Practice (ICP) Coordinator**  Prof. Pemra CÖBEK ÜNALAN  Prof. Serap ÇİFÇİLİ | |
| **Coordinator of Multidisciplinary Students’ Lab**.  Prof. Betül YILMAZ | | **Coordinator of Clinical Skills Lab.**  Prof. Çiğdem APAYDIN KAYA | |
| **Coordinator of Assessment Unite**  Assist. Prof. Cevdet NACAR | | **Coordinator of Student Exchange Programs**  Assist. Prof. Can ERZİK | |
| **Vice-Chief Coordinators** | | | |
| **Program**  Prof. Oya ORUN | **Assessment**  Prof. Hasan R. YANANLI | | **Students’ Affairs**  Assist. Prof. Can ERZİK |
| **Chief Coordinator (Pre-Clinical Education)**  Prof. Serap ŞİRVANCI | | **Coordinator of Medical Education Program Evaluation and Development Commission**  Prof. Harika ALPAY | |
| **Vice Dean (Education)**  Assoc. Prof. Altuğ ÇİNÇİN & Prof. Hasan R. YANANLI | | **Dean**  Prof. Ümit Süleyman ŞEHİRLİ | |

|  |
| --- |
| MU MEDICAL SCHOOL PRE-CLINICAL EDUCATION PROGRAM |
| LEARNING OUTCOMES / COMPETENCIES   1. Clinical Care: Qualified patient care and community oriented health care 2. Basic clinical skills 3. The organization and management of the patient and the patient care 4. The organization and the management of health care delivery services / system 5. Health promotion and disease prevention 6. Medical Knowledge and Evidence-Based Medicine 7. Appropriate information retrieval and management skills 8. The integration of knowledge, critical thinking and evidence-based decision making 9. Scientific methods and basic research skills 10. Professional Attitudes and Values 11. Communication skills and effective communication with patients / patient relatives 12. Interpersonal relationships and team working 13. Ethical and professional values, responsibilities 14. Individual, social and cultural values and responsibilities 15. Reflective practice and continuing development 16. Healthcare delivery systems, management and community oriented health care 17. 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 : Growth, Development, Mental Health and Related Disorders  Year 3, Course 5: Urinary and Reproductive System and Related Disorders |

|  |  |  |
| --- | --- | --- |
| CARDIOVASCULAR SYSTEM AND RELATED DISORDERS | | |
| **AIM and LEARNING OBJECTIVES of COURSE**  **Aim:** With an interdisciplinary approach, to learn about the morphology and functions of the cardiovascular system, about the principles of circulation and to correlate the pathophysiological mechanisms with the diseases of the cardiovascular system.  **Learning Objectives:**   * To learn the morphology of the heart and the vessels * To describe the basic mechanisms of circulation * To define and discuss the factors impairing the normal function of the cardiovascular system and their pathological reflections on the occurrence of the diseases * To learn the major symptoms and signs of the cardiovascular diseases and the principles of therapeutic approaches * To learn the methods of the prevention from the cardiovascular diseases and its epidemiological importance as related with the mortality and morbidity in the population | | |
| **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-3.1 & MODULE-3.1** | | |
| * Anatomy * Biochemistry * Biophysics * Cardiology * Cardiovascular Surgery * Clinical Pharmacology * Family Medicine * Histology and Embryology | * Nuclear Medicine * Microbiology * Pathology * Pediatric Cardiology * Physiology * Public Health * Radiology | |
| **LECTURERS / TUTORS** | | |
| Koray AK, Professor of Cardiovascular Surgery  Figen AKALIN, Professor of Pediatric Cardiology  Ahmet AKICI, Professor of Clinical Pharmacology  Çiğdem APAYDIN KAYA, Professor of Familiy Medicine  Halil ATAŞ, Assoc. Professor of Cardiology  Banu AYDIN OMAY, Assoc. Professor of Biophysics  Saime BATIREL, Assoc. Professor of Biochemistry  Hülya CABADAK, Professor of Biophysics  Zeliha Leyla CİNEL, Professor of Pathology  Şule ÇETİNEL, Professor of Histology and Embryology  Saliha Serap ÇİFÇİLİ, Professor of Family Medicine  Ahmet Altuğ ÇİNÇİN, Assoc. Professor of Cardiology  İpek ERBARUT, Assoc. Professor of Pathology  Elif EROĞLU BÜYÜKÖNER, Professor of Cardiology  Zafer GÖREN, Professor of Pharmacology  Rezzan GÜLHAN, Professor of Pharmacology  Yusuf Emre GÜREL, Assoc. Professor of Cardiology  Nesrin KARTAL ÖZER, Professor of Biochemistry  Özgür KASIMAY, Professor of Physiology  Mert KAŞKAL, Lecturer of Pharmacology  Özlem Tuğçe KAYA, Assoc. Professor of Histology and Embryology  Alper KEPEZ, Assoc. Professor of Cardiology | Hızır KURTEL, Professor of Physiology  Nimet Emel LÜLECİ, Professor of Public Health  Bülent MUTLU, Professor of Cardiology  Cevdet NACAR, Assist. Professor of Biophysics  Filiz ONAT, Professor of Clinical Pharmacology  Oya ORUN, Professor of Biophysics  Beste ÖZBEN SADIÇ, Professor of Cardiology  Necmettin Ömer ÖZDOĞMUŞ, Professor of Anatomy  Nurten SAYAR, Professor of Cardiology  Efe SOYDEMİR, Assist. Professor of Radiology  Mehmet Ali SÖYLEMEZ, Lecturer of Medical Genetics  Murat SÜNBÜL, Assoc. Professor of Cardiology  Mustafa Kürşat TİGEN, Professor of Cardiology  Halil Turgut TUROĞLU, Professor of Nuclear Medicine  Hüseyin Kemal TÜRKÖZ, Assoc. Professor of Pathology  Arzu UZUNER, Professor of Family Medicine  Nurver ÜLGER, Professor of Microbiology  Gülru Pemra CÖBELEK ÜNALAN, Professor of Family Medicine  Ahmet Süha YALÇIN, Professor of Biochemistry  Berrak YEĞEN, Professor of Physiology  Osman YEŞİLDAĞ, Professor of Cardiology  Alper YILDIRIM, Assoc. Professor of Physiology | |

|  |
| --- |
| **READING / STUDYING MATERIALS**   * Pocket Guide to ECG Diagnosis, Edward K.Chung, First edition, Blackwell Science. * Chou’s Electrocardiography in Clinical Practice, 6th edition, Surawicz, Kinilans, 2008, Saunders, Elsevier. * Clinical Cardiology, Lange Medical Books, Melvin D. Cheitlin, Maurice Sokolow, Malcolm B. Mc Ilroy. * Cardiac Imaging Secrets, Elsevier Neil J. Weissman MD, Gabriel A. Adelman MD, 2004. * Clinical Electrocardiography, Ary L. Goldberger, Simplified Approach Mosby-Elsevier, 2008. * Drugs for the Heart, Lionel H. Opie, Bernard J. Gersh 7th Edition, Saunders Elsevier. * Current Diagnosis and Treatment in Cardiology, Michael Crawford Lange Medical Books, McGraw Hill, 2006. * Clinical Skills, Bouchier and Morris, Saunders. * Braunwald Heart Disease, 8th Edition, W. B. Saunders, Eugene Braunwald, Douglas P.Zipes, Peter Libby, 2012. * **K**ardiyoloji, Editörler: İsfendiyar Candan, Derviş Oral, Ankara Üniversitesi, Tıp Fakültesi Yayınları. * Klinik Kardiyoloji, Hasan Gök, Nobel Kitabevi, 2002. * Lecture Notes on Cardiology, Huon H Gray, Keith H Dawkins, John M. Morgan, T. Simpson, 4th Edition Blackwell Science. * Lecture Notes on Clinical Skills, Robert Turner, Roger Blackwood, 3rd Edition, Blackwell Science, 2003. * Pathophysiology of Heart Disease, Leonard S. Lilly, Lea & Febiger, 2008. * Manual of Cardiovascular Medicine, 3rd Edition, Brian P Griffin, Eric J. Topol, Lippincott Williams & Wilkins, 2004. * Cardiovascular Diagnosis The Initial Examination, J. Willis Hurst Mosby Wolfe Medical Communication, 2004. * Cardiac Drug Therapy, M. Gabriel Kahn, 6th Edition, Saunders. * Handbook of Cardiovascular Emergencies, 2nd Edition, James W. Hoekstra, Lippincott Williams Wilkins. * Hurst’s The Heart, Manual of Cardiology, 10th Edition, Robert A. O’Rourke, Valentin Fuster, R.Wayne Alexander. * Cardiovascular Physiology Lange Physiology Series, David E. Rohrman, Louis J. Heller, 6th Edition, 2006. * A Pocket Guide to Physical Examination and History Taking, Barbara Bates J. B., Lippincott. * Kardiyoloji Modern Semiyoloji, Prof. Dr. Dinçer Uçak, Nobel Kitabevi, 2003. * A Colour Atlas of Physical Signs in Cardiovascular Disease, L. M. Shapiro, K. M. Fox Wolfe Medical Publication. * Netter’s Cardiology, Marschall S Runge, Magnus Ohman, Icon Learning Systems 2004. |

|  |  |  |  |
| --- | --- | --- | --- |
| SUMMARY OF THE COURSE | | | |
| **Discipline** | **Lecture & Group Discussion** | **Multidisciplinary Lab. & Clinical Skills Lab. Practice** | Total |
| Anatomy | 4 | 1 | 5 |
| Biochemistry | 10 |  | 9 |
| Biophysics | 11 |  | 11 |
| Cardiology | 28 |  | 28 |
| Cardiovascular Surgery | 1 |  | 1 |
| Clinical Pharmacology | 13 |  | 13 |
| Family Medicine | 2 |  | 2 |
| Histology and Embryology | 5 | 2 | 7 |
| Nuclear Medicine | 1 |  | 1 |
| Microbiology | 3 |  | 3 |
| Pathology | 7 | 2 | 7 |
| Pediatric Cardiology | 5 |  | 5 |
| Physiology | 18 | 3 | 21 |
| Public Health | 2 |  | 2 |
| Radiology | 1 |  | 1 |
| Genetics | 1 |  | 1 |
| Subtotal | 112 | 8 | 120 |
| PBL Module | 10 |  | 10 |
| ICP-3: Basic Medical Practices, Clinical Skills Lab., Student Research Activity | 1 | 12 | 13 |
| **TOTAL** | **138** | **23** | **143** |

|  |  |  |
| --- | --- | --- |
| **SEVEN WEEK PROGRAM** | | |
|  | **THEORETICAL AND PRACTICAL SESSIONS** | **LECTURER(S)/TUTOR(S)** |
| **Week-1 (05 September - 09 September 2022)** | | |
| **Monday** | **05 September** |  |
| 08:40-09:30 | Introduction to the course and opening lecture | Dr. Mustafa Kürşat Tigen |
| 09:40-10:30 | Heart and pericardium | Dr. Necmettin Ömer Özdoğmuş |
| 10:40-11:30 | Heart and pericardium | Dr. Necmettin Ömer Özdoğmuş |
| 11:40-12:30 | Heart and pericardium | Dr. Necmettin Ömer Özdoğmuş |
|  |  |  |
| 13:40-14:30 | Histology of the heart | Dr. Özlem Tuğçe Kaya |
| 14:40-15:30 | Physiological properties of the cardiac muscle | Dr. Alper Yıldırım |
| 15:40-16:30 | Regulation of cardiac functions | Dr. Alper Yıldırım |
| 16:40-17:30 |  |  |
|  |  |  |
| **Tuesday** | **06 September** |  |
| 08:40-09:30 |  |  |
| 09:40-10:30 | Anatomy of the vessels (arterial and venous system) | Dr. Necmettin Ömer Özdoğmuş |
| 10:40-11:30 | Histology of blood vessels | Dr. Özlem Tuğçe Kaya |
| 11:40-12:30 | Histology of blood vessels | Dr. Özlem Tuğçe Kaya |
|  |  |  |
| 13:40-14:30 | Cardiac cycle | Dr. Berrak Yegen |
| 14:40-15:30 | Cardiac cycle | Dr. Berrak Yegen |
| 15:40-16:30 | Heart sounds | Dr. Özgür Kasımay |
| 16:40-17:30 |  |  |
|  |  |  |
| **Wednesday** | **07 September** |  |
| 08:40-09:30 | Regulation of blood pressure | Dr. Hızır Kurtel |
| 09:40-10:30 | Regulation of blood pressure | Dr. Hızır Kurtel |
| 10:40-11:30 | Principles of ECG | Dr. Berrak Yegen |
| 11:40-12:30 | Principles of ECG | Dr. Berrak Yegen |
|  |  |  |
| 13:40-14:30 |  |  |
| 14:40-15:30 |  |  |
| 15:40-16:30 |  |  |
| 16:40-17:30 |  |  |
|  |  |  |
| **Thursday** | **08 September** |  |
| 08:40-09:30 |  |  |
| 09:40-10:30 | Introduction to ICP-3 | ICP Lab. |
| 10:40-11:30 | ECG and its interpretation | Dr. Özgür Kasımay |
| 11:40-12:30 |  |  |
|  |  |  |
| 13:40-14:30 | ICP-3: Basic Medical Practice-Clinical Skills-Students Research Activity-3 | ICP Lab. |
| 14:40-15:30 | ICP-3: Basic Medical Practice-Clinical Skills-Students Research Activity-3 | ICP Lab. |
| 15:40-16:30 | ICP-3: Basic Medical Practice-Clinical Skills-Students Research Activity-3 | ICP Lab. |
| 16:40-17:30 | ICP-3: Basic Medical Practice-Clinical Skills-Students Research Activity-3 | ICP Lab. |
|  |  |  |
| **Friday** | **09 September** |  |
| 08:40-09:30 |  |  |
| 09:40-10:30 |  |  |
| 10:40-11:30 | Electrical fields, potential at a point | Dr. Cevdet Nacar |
| 11:40-12:30 | Cardiac action potentials | Dr. Hülya Cabadak |
|  |  |  |
| 13:40-14:30 |  |  |
| 14:40-15:30 | Principles of hemodynamics | Dr. Hızır Kurtel |
| 15:40-16:30 | Principles of hemodynamics | Dr. Hızır Kurtel |
| 16:40-17:30 |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
| **Week-2 (12 September - 16 September 2022)** | | |
| **Monday** | **12 September** |  |
| 08:40-09:30 |  |  |
| 09:40-10:30 |  |  |
| 10:40-11:30 | Anatomy LAB: Heart and pericardium-Group A | Anatomy Lab. |
| 11:40-12:30 | Anatomy LAB: Heart and pericardium-Group B | Anatomy Lab. |
|  |  |  |
| 13:40-14:30 | Physiology LAB: ECG-1 | Computer Lab. |
| 14:40-15:30 | Physiology LAB: ECG-1 | Computer Lab. |
| 15:40-16:30 | Physiology LAB: ECG-1 | Computer Lab. |
| 16:40-17:30 | Physiology LAB: ECG-1 | Computer Lab. |
|  |  |  |
| **Tuesday** | **13 September** |  |
| 08:40-09:30 | Fluid Mechanics | Dr. Banu Aydın Omay |
| 09:40-10:30 | Fluid Mechanics | Dr. Banu Aydın Omay |
| 10:40-11:30 | Principles of electrocardiography | Dr. Oya Orun |
| 11:40-12:30 | Arterial pulse | Dr. Özgür Kasımay |
|  |  |  |
| 13:40-14:30 | Physiology LAB: ECG-1 | Computer Lab. |
| 14:40-15:30 | Physiology LAB: ECG-1 | Computer Lab. |
| 15:40-16:30 | Physiology LAB: ECG-1 | Computer Lab. |
| 16:40-17:30 | Physiology LAB: ECG-1 | Computer Lab. |
|  |  |  |
| **Wednesday** | **14 September** |  |
| 08:40-09:30 | Cardiac output | Dr. Alper Yıldırım |
| 09:40-10:30 | Coronary circulation | Dr. Alper Yıldırım |
| 10:40-11:30 | Regulation of blood flow | Dr. Özgür Kasımay |
| 11:40-12:30 | Circulation through specific organs | Dr. Özgür Kasımay |
|  |  |  |
| 13:40-14:30 | Histology LAB: Histology of heart, blood vessels |  |
| 14:40-15:30 | Histology LAB: Histology of heart, blood vessels |  |
| 15:40-16:30 | Histology LAB: Histology of heart, blood vessels |  |
| 16:40-17:30 | Histology LAB: Histology of heart, blood vessels |  |
|  |  |  |
|  |  |  |
| **Thursday** | **15 September** |  |
| 08:40-09:30 |  |  |
| 09:40-10:30 |  |  |
| 10:40-11:30 |  |  |
| 11:40-12:30 |  |  |
|  |  |  |
| 13:40-14:30 | Approach to the patient with cardiovascular system disease | Dr. Ahmet Altuğ Çinçin |
| 14:40-15:30 | Principal symptom and general signs in cardiovascular disease | Dr. Osman Yeşildağ |
| 15:40-16:30 | Principal symptom and general signs in cardiovascular disease | Dr. Osman Yeşildağ |
| 16:40-17:30 |  |  |
|  |  |  |
| **Friday** | **16 September** |  |
| 08:40-09:30 | Examination of the heart and vessels | Dr. Beste Özben Sadıç |
| 09:40-10:30 | Examination of the heart and vessels | Dr. Beste Özben Sadıç |
| 10:40-11:30 | Diagnostic methods in cardiology | Dr. Beste Özben Sadıç |
| 11:40-12:30 | Diagnostic methods in cardiology | Dr. Beste Özben Sadıç |
|  |  |  |
| 13:40-14:30 |  |  |
| 14:40-15:30 | Viscosity, laminar and turbulent flow | Dr. Oya Orun |
| 15:40-16:30 | The role of gravity in the circulation | Dr. Oya Orun |
| 16:40-17:30 |  |  |
|  |  |  |
| **Week-3 (19 September - 23 September 2022)** | | |
| **Monday** | **19 September** |  |
| 08:40-09:30 | Epidemiology of cardiovascular diseases | Dr. Nimet Emel Lüleci |
| 09:40-10:30 | Vascular events | Dr. Nesrin Kartal Özer |
| 10:40-11:30 | Atherosclerosis & hypertensive cardiovascular events | Dr. Zeliha Leyla Cinel |
| 11:40-12:30 | Atherosclerosis & hypertensive cardiovascular events | Dr. Zeliha Leyla Cinel |
|  |  |  |
| 13:40-14:30 |  |  |
| 14:40-15:30 | PBL-1 |  |
| 15:40-16:30 | PBL-1 |  |
| 16:40-17:30 |  |  |
|  |  |  |
| **Tuesday** | **20 September** |  |
| 08:40-09:30 | Hyperlipidemias and atherosclerosis | Dr. Nesrin Kartal Özer |
| 09:40-10:30 | Hyperlipidemias and atherosclerosis | Dr. Nesrin Kartal Özer |
| 10:40-11:30 | Biochemical aspects of the metabolic syndrome | Dr. Saime Batırel |
| 11:40-12:30 | Biochemical aspects of the metabolic syndrome | Dr. Saime Batırel |
|  |  |  |
| 13:40-14:30 | Physiology LAB: ECG-2 | Computer Lab. |
| 14:40-15:30 | Physiology LAB: ECG-2 | Computer Lab. |
| 15:40-16:30 | Physiology LAB: ECG-2 | Computer Lab. |
| 16:40-17:30 | Physiology LAB: ECG-2 | Computer Lab. |
|  |  |  |
| **Wednesday** | **21 September** |  |
| 08:40-09:30 | Ischaemic heart disease | Dr. İpek Erbarut |
| 09:40-10:30 | Ischaemic heart disease | Dr. İpek Erbarut |
| 10:40-11:30 | Coronary artery disease | Dr. Mustafa Kürşat Tigen |
| 11:40-12:30 | Coronary artery disease | Dr. Mustafa Kürşat Tigen |
|  |  |  |
| 13:40-14:30 | PBL Study Time |  |
| 14:40-15:30 | PBL-2 |  |
| 15:40-16:30 | PBL-2 |  |
| 16:40-17:30 |  |  |
|  |  |  |
| **Thursday** | **22 September** |  |
| 08:40-09:30 | Cardiac injury and markers | Dr. Süha Yalçın |
| 09:40-10:30 | Cardiac injury and markers | Dr. Süha Yalçın |
| 10:40-11:30 | Acute coronary syndrome | Dr. Alper Kepez |
| 11:40-12:30 | Acute coronary syndrome | Dr. Alper Kepez |
|  |  |  |
| 13:40-14:30 | ICP-3: Basic Medical Practice-Clinical Skills-Students Research Activity-3 | ICP Lab. |
| 14:40-15:30 | ICP-3: Basic Medical Practice-Clinical Skills-Students Research Activity-3 | ICP Lab. |
| 15:40-16:30 | ICP-3: Basic Medical Practice-Clinical Skills-Students Research Activity-3 | ICP Lab. |
| 16:40-17:30 | ICP-3: Basic Medical Practice-Clinical Skills-Students Research Activity-3 | ICP Lab. |
|  |  |  |
| **Friday** | **23 September** |  |
| 08:40-09:30 | Cardiomyopathies and myocarditis | Dr. Murat Sünbül |
| 09:40-10:30 | Pharmacotherapy of ischemic heart disease and MI | Dr. Ahmet Akıcı |
| 10:40-11:30 | Pharmacotherapy of ischemic heart disease and MI | Dr. Ahmet Akıcı |
| 11:40-12:30 | Pericarditis | Dr. Alper Kepez |
|  |  |  |
| 13:40-14:30 |  |  |
| 14:40-15:30 | Development of the cardiovascular system | Dr. Şule Çetinel |
| 15:40-16:30 | Development of the cardiovascular system | Dr. Şule Çetinel |
| 16:40-17:30 |  |  |
|  |  |  |
| **Week-4 (26 September - 30 September 2022)** | | |  |  |
| **Monday** | **26 September** |  |
| 08:40-09:30 | Lipoprotein metabolism | Dr. Saime Batırel |
| 09:40-10:30 | Lipoprotein metabolism | Dr. Saime Batırel |
| 10:40-11:30 | Lipoprotein metabolism | Dr. Saime Batırel |
| 11:40-12:30 | Pharmacotherapy of hyperlipidemias | Dr. Ahmet Akıcı |
|  |  |  |
| 13:40-14:30 | PBL Study Time |  |
| 14:40-15:30 | PBL-3 |  |
| 15:40-16:30 | PBL-3 |  |
| 16:40-17:30 |  |  |
|  |  |  |
|  |  |  |
| **Tuesday** | **27 September** |  |
| 08:40-09:30 | Clinical electrocardiography | Dr. Halil Ataş |
| 09:40-10:30 | Clinical electrocardiography | Dr. Halil Ataş |
| 10:40-11:30 | Systemic hypertension and hypertensive heart disease | Dr. Yusuf Emre Gürel |
| 11:40-12:30 | Systemic hypertension and hypertensive heart disease | Dr. Yusuf Emre Gürel |
|  |  |  |
| 13:40-14:30 | Pharmacotherapy of hypertension | Dr. Ahmet Akıcı |
| 14:40-15:30 | Pharmacotherapy of hypertension | Dr. Ahmet Akıcı |
| 15:40-16:30 | Pharmacotherapy of hypertension | Dr. Ahmet Akıcı |
| 16:40-17:30 |  |  |
|  |  |  |
| **Wednesday** | **28 September** |  |
| 08:40-09:30 | Heart failure and cardiogenic shock | Dr. Murat Sünbül |
| 09:40-10:30 | Heart failure and cardiogenic shock | Dr. Murat Sünbül |
| 10:40-11:30 | Pharmacotherapy of heart failure | Dr.Ahmet Akıcı |
| 11:40-12:30 | Pharmacotherapy of heart failure | Dr.Ahmet Akıcı |
|  |  |  |
| 13:40-14:30 | PBL Study Time |  |
| 14:40-15:30 | PBL-4 |  |
| 15:40-16:30 | PBL-4 |  |
| 16:40-17:30 |  |  |
|  |  |  |
| **Thursday** | **29 September** |  |
| 08:40-09:30 | ICP-3: Basic Medical Practice-Clinical Skills-Students Research Activity-3 | ICP Lab. |
| 09:40-10:30 | ICP-3: Basic Medical Practice-Clinical Skills-Students Research Activity-3 | ICP Lab. |
| 10:40-11:30 | ICP-3: Basic Medical Practice-Clinical Skills-Students Research Activity-3 | ICP Lab. |
| 11:40-12:30 | ICP-3: Basic Medical Practice-Clinical Skills-Students Research Activity-3 | ICP Lab. |
|  |  |  |
| 13:40-14:30 | ICP-3: Basic Medical Practice-Clinical Skills-Students Research Activity-3 | ICP Lab. |
| 14:40-15:30 | ICP-3: Basic Medical Practice-Clinical Skills-Students Research Activity-3 | ICP Lab. |
| 15:40-16:30 | ICP-3: Basic Medical Practice-Clinical Skills-Students Research Activity-3 | ICP Lab. |
| 16:40-17:30 | ICP-3: Basic Medical Practice-Clinical Skills-Students Research Activity-3 | ICP Lab. |
|  |  |  |
| **Friday** | **30 September** |  |
| 08:40-09:30 |  |  |
| 09:40-10:30 |  |  |
| 10:40-11:30 |  |  |
| 11:40-12:30 | Syncope and sudden cardiac death | Dr. Halil Ataş |
|  |  |  |
| 13:40-14:30 |  |  |
| 14:40-15:30 | Pharmacotherapy of cardiac dysrhythmias | Dr. Rezzan Gülhan |
| 15:40-16:30 | Pharmacotherapy of cardiac dysrhythmias | Dr. Rezzan Gülhan |
| 16:40-17:30 | Introduction to cardiovascular pharmacology | Dr. Zafer Gören |
|  |  |  |
| **Week-5 (03 October - 07 October 2022)** | | |
| **Monday** | **03 October** |  |
| 08:40-09:30 |  |  |
| 09:40-10:30 |  |  |
| 10:40-11:30 |  |  |
| 11:40-12:30 |  |  |
|  |  |  |
| 13:40-14:30 | PBL Study Time |  |
| 14:40-15:30 | PBL-5 |  |
| 15:40-16:30 | PBL-5 |  |
| 16:40-17:30 |  |  |
|  |  |  |
| **Tuesday** | **04 October** |  |
| 08:40-09:30 | Acute rheumatic fever | Dr. Figen Akalın |
| 09:40-10:30 | Acute rheumatic fever | Dr. Figen Akalın |
| 10:40-11:30 |  |  |
| 11:40-12:30 |  |  |
|  |  |  |
| 13:40-14:30 | Physiology LAB: Blood pressure, heart sounds, pulse | Multidisciplinary Lab. |
| 14:40-15:30 | Physiology LAB: Blood pressure, heart sounds, pulse | Multidisciplinary Lab. |
| 15:40-16:30 | Physiology LAB: Blood pressure, heart sounds, pulse | Multidisciplinary Lab. |
| 16:40-17:30 | Physiology LAB: Blood pressure, heart sounds, pulse | Multidisciplinary Lab. |
|  |  |  |
| **Wednesday** | **05 October** |  |
| 08:40-09:30 | Pathology LAB: Heart and valvular diseases | Multidisciplinary Lab. |
| 09:40-10:30 | Pathology LAB: Heart and valvular diseases | Multidisciplinary Lab. |
| 10:40-11:30 | Pathology LAB: Heart and valvular diseases | Multidisciplinary Lab. |
| 11:40-12:30 | Pathology LAB: Heart and valvular diseases | Multidisciplinary Lab. |
|  |  |  |
| 13:40-14:30 |  |  |
| 14:40-15:30 |  |  |
| 15:40-16:30 |  |  |
| 16:40-17:30 |  |  |
|  |  |  |
| **Thursday** | **06 October** |  |
| 08:40-09:30 |  |  |
| 09:40-10:30 | Congenital acyanotic heart disease with left to right shunt | Dr. Figen Akalın |
| 10:40-11:30 | Congenital cyanotic heart disease | Dr. Figen Akalın |
| 11:40-12:30 | Congenital heart disease with valvular obstruction or stenosis | Dr. Elif Eroğlu |
|  |  |  |
| 13:40-14:30 | ICP-3: Basic Medical Practice-Clinical Skills-Students Research Activity-3 | ICP Lab. |
| 14:40-15:30 | ICP-3: Basic Medical Practice-Clinical Skills-Students Research Activity-3 | ICP Lab. |
| 15:40-16:30 | ICP-3: Basic Medical Practice-Clinical Skills-Students Research Activity-3 | ICP Lab. |
| 16:40-17:30 | ICP-3: Basic Medical Practice-Clinical Skills-Students Research Activity-3 | ICP Lab. |
|  |  |  |
| **Friday** | **07 October** |  |
| 08:40-09:30 |  |  |
| 09:40-10:30 | Valvular diseases of the heart | Dr. Hüseyin Kemal Türköz |
| 10:40-11:30 | Neoplastic diseases of the heart & blood vessels | Dr. Hüseyin Kemal Türköz |
| 11:40-12:30 | Vasculitis | Dr. Zeliha Leyla Cinel |
|  |  |  |
| 13:40-14:30 |  |  |
| 14:40-15:30 | ICP-CSL: study with simulated patients |  |
| 15:40-16:30 | ICP-CSL: study with simulated patients |  |
| 16:40-17:30 | ICP-CSL: study with simulated patients |  |
|  |  |  |
| **Week-6 (10 October - 14 October 2022)** | | |
| **Monday** | **10 October** |  |
| 08:40-09:30 |  |  |
| 09:40-10:30 | Diseases of the aorta and the peripheral blood vessels | Dr. Yusuf Emre Gürel |
| 10:40-11:30 | Approach to thromboembolic disorders | Dr. Koray Ak |
| 11:40-12:30 | Pharmacotherapy in peripheral arterial and venous occlusive diseases | Dr. Filiz Onat |
|  |  |  |
| 13:40-14:30 | Elderly patient with leg pain: Primary care approach | Dr. Gülru Pemra Ünalan |
| 14:40-15:30 | ICP-CSL: study with simulated patients |  |
| 15:40-16:30 | ICP-CSL: study with simulated patients |  |
| 16:40-17:30 | ICP-CSL: study with simulated patients |  |
|  |  |  |
| **Tuesday** | **11 October** |  |
| 08:40-09:30 |  |  |
| 09:40-10:30 | Cardiovascular diseases in special population | Dr. Osman Yeşildağ |
| 10:40-11:30 | Genetic basis of the cardiovascular diseases | Dr. Mehmet Ali Söylemez |
| 11:40-12:30 |  |  |
|  |  |  |
| 13:40-14:30 |  |  |
| 14:40-15:30 | Myocardial scintigraphy and radionuclide ventriculography | Dr. Halil Turgut Turoğlu |
| 15:40-16:30 | Cardiac dysrhythmias | Dr. Ahmet Altuğ Çinçin |
| 16:40-17:30 | Cardiac dysrhythmias | Dr. Ahmet Altuğ Çinçin |
|  |  |  |
|  |  |  |
| **Wednesday** | **12 October** |  |
| 08:40-09:30 |  |  |
| 09:40-10:30 |  |  |
| 10:40-11:30 |  |  |
| 11:40-12:30 |  |  |
|  |  |  |
| 13:40-14:30 | ICP-CSL: study with simulated patients |  |
| 14:40-15:30 | ICP-CSL: study with simulated patients |  |
| 15:40-16:30 | ICP-CSL: study with simulated patients |  |
| 16:40-17:30 |  |  |
|  |  |  |
| **Thursday** | **13 October** |  |
| 08:40-09:30 | Microbiological approach to cardiovascular infections | Dr. Nurver Ülger |
| 09:40-10:30 | Valvular heart disease | Dr. Bülent Mutlu |
| 10:40-11:30 | Valvular heart disease | Dr. Bülent Mutlu |
| 11:40-12:30 | Pulmonary hypertension in cardiology | Dr. Bülent Mutlu |
|  |  |  |
| 13:40-14:30 | Radiology of the cardiovascular system | Dr. Efe Soydemir |
| 14:40-15:30 | Adult patient with chest pain. Primary care approach | Dr. Arzu Uzuner |
| 15:40-16:30 |  |  |
| 16:40-17:30 |  |  |
|  |  |  |
|  |  |  |
| **Friday** | **14 October** |  |
| 08:40-09:30 |  |  |
| 09:40-10:30 |  |  |
| 10:40-11:30 |  |  |
| 11:40-12:30 |  |  |
|  |  |  |
| 13:40-14:30 |  |  |
| 14:40-15:30 |  |  |
| 15:40-16:30 |  |  |
| 16:40-17:30 |  |  |
|  |  |  |
|  |  |  |
| **Week-7 (17 October - 21 October 2022)** | | |
| **Monday** | **17 October** |  |
| 08:40-09:30 | **Y3C1 PRACTICAL EXAM** |  |
| 09:40-10:30 |  |
| 10:40-11:30 |  |
| 11:40-12:30 |  |
|  |  |  |
| 13:40-14:30 |  |  |
| 14:40-15:30 |  |  |
| 15:40-16:30 | Elective Course |  |
| 16:40-17:30 | Elective Course |  |
|  |  |  |
|  |  |  |
|  |  |  |
| **Tuesday** | **18 October** |  |
| 08:40-09:30 | **Y3C1 PRACTICAL EXAM** |  |
| 09:40-10:30 |  |
| 10:40-11:30 |  |
| 11:40-12:30 |  |
|  |  |  |
| 13:40-14:30 |  |  |
| 14:40-15:30 |  |  |
| 15:40-16:30 |  |  |
| 16:40-17:30 |  |  |
|  |  |  |
| **Wednesday** | **19 October** |  |
| 08:40-09:30 |  |  |
| 09:40-10:30 |  |  |
| 10:40-11:30 |  |  |
| 11:40-12:30 |  |  |
|  |  |  |
| 13:40-14:30 |  |  |
| 14:40-15:30 |  |  |
| 15:40-16:30 |  |  |
| 16:40-17:30 |  |  |
|  |  |  |
| **Thursday** | **20 October** |  |
| 08:40-09:30 | **Y3C1 THEORETICAL EXAM** |  |
| 09:40-10:30 |  |
| 10:40-11:30 |  |
| 11:40-12:30 |  |
|  |  |  |
| 13:40-14:30 |  |  |
| 14:40-15:30 |  |  |
| 15:40-16:30 |  |  |
| 16:40-17:30 |  |  |
|  |  |  |
| **Friday** | **21 October** |  |
| 08:40-09:30 |  |  |
| 09:40-10:30 |  |  |
| 10:40-11:30 |  |  |
| 11:40-12:30 |  |  |
|  |  |  |
| 13:40-14:30 |  |  |
| 14:40-15:30 |  |  |
| 15:40-16:30 |  |  |
| 16:40-17:30 |  |  |
|  |  |  |