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| Resim 4**MARMARA UNIVERSITY SCHOOL of MEDICINE** |
| **CLINICAL EDUCATION PROGRAM****Phase 2 / Year 5****2023-2024**Specific Surgical Disorders And Invasive Procedures Block Program Group 313/05/2024 – 07/06/2024  |
| **Coordinator of Block**Assoc. Prof. Fatma Nihal DURMUŞ KOCAASLAN  |
|  **Year 5 Coordinators** Prof. Ela Erdem ERALP |
| **Chief Coordinator of Clinical Education**Prof. İlker YAĞCI |
| **Assessment** Prof. Hasan Raci YANANLI | **Students’ Affairs**Assist. Prof. Can ERZİK |
| **Vice Dean**Prof. Altuğ ÇİNÇİNProf. Hasan Raci YANANLI | **Dean**Prof. Ümit Süleyman ŞEHİRLİ |

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| **1. PLASTIC, RECONSTRUCTIVE AND AESTHETIC SURGERY (1 WEEK)** **2. CARDIOVASCULAR SURGERY (1 WEEK)****3. THORACIC SURGERY (1 WEEK)****4. PEDIATRIC SURGERY (1 WEEK)** |
| **AIMs and LEARNING OBJECTIVES of COURSE** PLASTIC, RECONSTRUCTIVE AND AETHETIC SURGERY  To know the meaning of tissue trauma types, partial and full thickness skin grafts, local flap types and z-plasty,To have knowledge about the stages of wound healing, the treatment approach according to the wound type,To have knowledge about the diagnosis, treatment and repair of types of skin tumors and head and neck tumorsTo have knowledge about the approach to the hand incision patient, hand examination, tendon-nerve cut, diagnosis and treatment of bone fracture, compartment syndrome, entrapment neuropathy, Dupuytren's disease,To have knowledge about tissue repair with microsurgeryTo have knowledge about the approach to the patient with maxillofacial trauma, recognizing the findings in nerve damage and bone fractures by examination, and diagnosis by tomographyTo have knowledge about the diagnosis, treatment, follow-up of cleft lip and palate and craniofacial anomaliesRecognizing the fields of aesthetic surgery,Primary suturing, splinting, bandage application, wound-burn care, abscess drainage, what is debridement, when is it done?, examination in trauma and head and neck cancer cases, bone fracture and nerve cut examination, gain competence lymphadenopathy examination. |
| **CARDIOVASCULAR SURGERY*** To learn the basic diagnosis and treatment approaches of adult cardiovascular diseases.
* To learn the diagnosis, imaging and treatment approaches of the adult cardiovascular patients who applied to the emergency department, especially in the emergency patient group such as acute arterial occlusions and DVT.
* Learning the history and physical examination findings of aortic dissection patients coming to the emergency department and then recognizing the dissection image in the tomography image.
* To learn the first things to be done in the approach to the patient in cases of stabbing or shooting to the heart, abdomen or extremity coming to the emergency room and to learn the things to be considered during the transfer to the operating room.
* To learn the basic working principles of the heart-lung pump used in heart surgeries.
* To teach intensive care, preoperative, perop and postoperative monitoring of CVC patients in general.
* To know the basic drugs used in cardiovascular diseases.
* To learn the diagnosis, examination and desired imaging method and classification of venous insufficiency errors, which are the most common patient group coming to the CVC outpatient clinic.
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| **THORACIC SURGERY*** Recognizing Adult Thoracic Surgery diseases, understanding the necessary treatment methods
* Recognizing the pathologies of the respiratory tract and thoracic cage in patients admitted to the Emergency Department, requesting appropriate tests for diagnosis and directing them to treatment
* Recognizing life-threatening pathologies such as pneumothorax, hemothorax, rib fracture, foreign body aspiration and gaining competence for first aid referral
* Gain proficiency in basic surgical intervention (suturing, thoracentesis) skills
* Having knowledge in advanced thoracic surgery procedures (chest tube insertion, thoracotomy opening, application of different incision types)
* Making the differential diagnosis of lung cancer, diaphragm diseases, mediastinal diseases, lung infections and esophageal disease
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| PEDIATRIC SURGERY General approach to surgical pathologies in childhood, their differences from adulthood pathologies.General approach to congenital anomalies that can be corrected surgically.General approach to surgical pathologies of the gastrointestinal tract in children.General approach to surgical pathologies of the urogenital tract in children.General approach to surgical pathologies of thoracal cavity in children.General approach to childhood traumaGeneral approach to intraabdominal tumors in children. |
| **ASSESSMENT SYSTEM**The assessment of the knowledge and cognitive competencies gained according to the learning objectives of the **Plastic, Reconstructive and Aesthetic Surgery, Cardiovascular Surgery, Thoracic Surgery and Pediatric Surgery clerkship** will be performed at the end of the fourth week by separate written exams; The practical skills will be assessed during the practical sessions and by a log-book assessment. | **PROGRAM EVALUATION**One evaluation is done throughout the block at the end of the clerkship. Evaluation during the clerkship is done orally; at the end of the clerkship, in addition to this, structured forms are used. For this evaluation, two forms - one for students and one for the teachers- are used. |
| **DEPARTMENTS PARTICIPATING IN COURSE** |
| **COORDINATOR DEPARTMENTS*** Plastic, Reconstructive and Aesthetic Surgery
 | **DEPARTMENTS PARTICIPATING IN COURSE*** Plastic, Reconstructive and Aesthetic Surgery
* Cardiovascular Surgery
* Thoracic Surgery
* Pediatric Surgery
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| **LECTURERS / TUTORS**  |
| * Prof. Mehmet BAYRAMİÇLİ
* Prof. Erdem TEZEL
* Prof. Bülent SAÇAK
* Prof. Sinan ARSAN
* Prof. Koray AK
* Prof. Bedrettin YILDIZELİ
* Prof. Korkut BOSTANCI
* Prof. Gürsu KIYAN
* Assoc. Prof. Nihal DURMUŞ KOCAASLAN
* Assoc. Prof. Zeynep Deniz AKDENİZ DOĞAN
* Assoc. Prof. Dağhan DAĞDELEN
* Assoc. Prof. Tunç LAÇİN
* Assoc. Prof. Kıvılcım CERİT
* Assoc. Prof. Ahsen KARAGÖZLÜ AKGÜL.
 | * Assist. Prof. Ahmet Hamdi SAKARYA
* Assist. Prof. Şeyde GÜRAY EVİN
* Assist. Prof. Yaşar BİRKAN
* Assist. Prof. Fatih ÖZTÜRK
* Assist. Prof. Elif DEMİRTAŞ
* Assist. Prof. Nezih Onur ERMERAK
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| **READING / STUDYING MATERIALS** |
| **Plastic, Reconstructive and Aesthetic Surgery** * GRABB and SMITH’s Plastic Surgery (Turkish or English)
* Mathes Plastic Surgery

**Cardiovascular Surgery*** Cardiac Surgery In The Adult
* Rutherford’s Vascular Surgery and Endovascular Therapy

**Thoracic Surgery*** Sugarbaker’s Adult Chest Surgery
* Shield’s General Thoracic Surgery

**Pediatric Surgery*** Pediatric Surgery
* Holcomb and Ashcraft’s Pediatric Surgery
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| **SUMMARY OF THE COURSE**  |
| **Committee / lectures**  | **Lecture & Group Discussion** | **Multidisciplinary Lab & Clinical Skills Lab.** **Practice** | **Total** |
| **1. PLASTIC, RECONSTRUCTIVE AND AESTHETIC SURGERY** |
| Basic Principles and Introduction to Plastic Surgery  | 1 |  | 1 |
| Reconstructive Surgery  | 1 |  | 1 |
| Aesthetic Surgery  | 1 |  | 1 |
| Wound Healing and Principles of Reconstruction  | 1 |  | 1 |
| Maxillofacial trauma  | 1 |  | 1 |
| Burns and Management  | 1 |  | 1 |
| Orthognatic Surgery  | 1 |  | 1 |
|  Cleft Lip and Palate | 1 |  | 1 |
| Pediatric Plastic Surgery | 1 |  | 1 |
| Skin Tumors  | 1 |  | 1 |
| Head and Neck Tumours  | 1 |  | 1 |
| Hand Surgery  | 1 |  | 1 |
| Suture Techniques |  | 1 | 1 |
| Head and Neck examination |  | 1 | 1 |
| Bedside/visit |  | 9 | 9 |
| **2. THORACIC SURGERY** |
|  Introduction to Thoracic Surgery  | 1 |  | 1 |
| Chest Tube Insertion | 1 |  | 1 |
| Chest Wall Disorders  | 1 |  | 1 |
| Lecture Dysphagia | 1 |  | 1 |
| Benign and malignant esophageal diseases | 1 |  | 1 |
| Mediastinal Diseases | 1 |  | 1 |
| Surgical Treatment of lung Cancer | 1 |  | 1 |
| Acute and Chronic Thromboembolism | 1 |  | 1 |
| Thoracic trauma  | 1 |  | 1 |
| LVRS and ELVR in COPD  | 1 |  | 1 |
|  Secondary Pulmonary Tumors  | 1 |  | 1 |
|  Pulmonary Aspergilloma  | 1 |  | 1 |
| Bedside/visit |  | 15 | 15 |
| **3. CARDIOVASCULAR SURGERY** |
| Follow up after cardiac surgery  | 3 |  | 3 |
| Cardiopulmonary bypass, CABG, vascular conduits  | 3 |  | 3 |
| Aortic dissection and vascular emergencies  | 3 |  | 3 |
| Congenital cardiac surgery  | 2 |  | 2 |
| Valvular heart diseases, valve substitutes  | 1 |  | 1 |
| Bedside/visit |  | 12 | 12 |
| **4. PEDIATRIC SURGERY** |
| Introduction to Pediatric Surgical Diseases  | 1 |  | 1 |
| Acute Abdomen in Children  | 1 |  | 1 |
| Abdominal Trauma | 1 |  | 1 |
| Surgical respratory distress of newborn: Esophageal atresia, congenital diaphragmatic hernia | 1 |  | 1 |
| Neonatal GIS Obstructions  | 1 |  | 1 |
| Gastrointestinal Surgical pathologies in Children  | 1 |  | 1 |
| Surgıcal approach to pleural dıseases ın chıldhood  | 1 |  | 1 |
| Inguinoscrotal and penile pathologies in pediatric surgery  | 1 |  | 1 |
| Gastroesophageal reflux disease | 1 |  | 1 |
| Acute urological pathologies in children | 1 |  | 1 |
| Hydronephrosis | 1 |  | 1 |
| Abdominal tumors in childhood: Wilms' Tumor and Neuroblastoma | 1 |  | 1 |
| Bedside/visit |  | 15 | 15 |
| **TOTAL** | **48** | **43** | **91** |

**1. SPECİFİC SURGİCAL DİSORDERS AND INVASİVE PROCEDURES BLOCK 4 WEEKS)**

**1.1. PEDIATRIC SURGERY (1 WEEK)**

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| **1st Week (13 / 17 May 2024)** |
| **Time** | **Lecture/Subject** | **Lecturers** | **Theoretical / Practical** |
| **Monday** |
| 09.00-10:00 | On-the-job learning session | Gürsu KIYAN | Practice |
| 10:00- 11:00 | On-the-job learning session | Gürsu KIYAN | Practice |
| 11: 00- 12:00 | On-the-job learning session | Gürsu KIYAN | Practice |
| 13:00: 14:00 | Introduction to Pediatric Surgical Diseases  | Gürsu KIYAN | Lecture |
| 14:00-15:00 | Acute Abdomen in Children  | Gürsu KIYAN | Lecture |
| 15:00-16:00 | Abdominal Trauma | Kıvılcım CERİT | Lecture |
| **Tuesday** |
| 09.00-10:00 | On-the-job learning session | Kıvılcım CERİT | Practice |
| 10:00- 11:00 | On-the-job learning session | Kıvılcım CERİT | Practice |
| 11: 00- 12:00 | On-the-job learning session | Kıvılcım CERİT | Practice |
| 13:00: 14:00 | Professionalism and Counseling |  |  |
| 14:00-15:00 | Professionalism and Counseling |  |  |
| 15:00-16:00 | Professionalism and Counseling |  |  |
| **Wednesday** |
| 09.00-10:00 | On-the-job learning session | Kıvılcım CERİT | Practice |
| 10:00- 11:00 | On-the-job learning session | Kıvılcım CERİT | Practice |
| 11: 00- 12:00 | On-the-job learning session | Kıvılcım CERİT | Practice |
| 13:00: 14:00 | Surgical respratory distress of newborn: Esophageal atresia, congenital diaphragmatic hernia | Gürsu KIYAN | Lecture |
| 14:00-15:00 | Neonatal GIS Obstructions  | Kıvılcım CERİT | Lecture |
| 15:00-16:00 | Gastrointestinal Surgical pathologies in Children  | Kıvılcım CERİT | Lecture |
| **Thursday** |
| 09.00-10:00 | On-the-job learning session | Ahsen KARAGÖZLÜ AKGÜL | Practice |
| 10:00- 11:00 | On-the-job learning session | Ahsen KARAGÖZLÜ AKGÜL | Practice |
| 11: 00- 12:00 | On-the-job learning session | Ahsen KARAGÖZLÜ AKGÜL | Practice |
| 13:00: 14:00 | Surgıcal approach to pleural dıseases ın chıldhood  | Gürsu KIYAN | Lecture |
| 14:00-15:00 | Inguinoscrotal and penile pathologies in pediatric surgery  | Ahsen KARAGÖZLÜ AKGÜL | Lecture |
| 15:00-16:00 | Gastroesophageal reflux disease | Gürsu KIYAN | Lecture |
| **Friday** |
| 09.00-10:00 | On-the-job learning session | Gürsu KIYAN | Practice |
| 10:00- 11:00 | On-the-job learning session | Gürsu KIYAN | Practice |
| 11: 00- 12:00 | On-the-job learning session | Gürsu KIYAN | Practice |
| 13:00: 14:00 | Acute urological pathologies in children | Ahsen KARAGÖZLÜ AKGÜL | Lecture |
| 14:00-15:00 | Hydronephrosis | Ahsen KARAGÖZLÜ AKGÜL | Lecture |
| 15:00-16:00 | Abdominal tumors in childhood: Wilms' Tumor and Neuroblastoma | Kıvılcım CERİT | Lecture |

**1. SPECİFİC SURGİCAL DİSORDERS AND INVASİVE PROCEDURES BLOCK 4 WEEKS)**

**1.2. PLASTIC, RECONSTRUCTIVE AND AESTHETIC SURGERY (1 WEEK)**

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| **2nd Week (20 /24 May 2024)** |
| **Time** | **Lecture/Subject** | **Lecturers** | **Theoretical / Practical** |
| **Monday** |
| 09.00-10:00 | Suture Practice | Nihal DURMUŞ KOCAASLAN | Practice |
| 10:00- 11:00 | Suture Practice | Nihal DURMUŞ KOCAASLAN | Practice |
| 11: 00- 12:00 | Suture Practice | Şeyda GÜRAY EVİN | Practice |
| 13:00: 14:00 | Basic Principles and Introduction to Plastic Surgery  | Mehmet BAYRAMİÇLİ | Lecture |
| 14:00-15:00 | Reconstructive Surgery  | Mehmet BAYRAMİÇLİ | Lecture |
| 15:00-16:00 | Aesthetic Surgery  | Erdem TEZEL | Lecture |
| **Tuesday** |
| 09.00-10:00 | On-the-job learning session | Zeynep Deniz AKDENİZ DOĞAN | Practice |
| 10:00- 11:00 | On-the-job learning session | Zeynep Deniz AKDENİZ DOĞAN | Practice |
| 11: 00- 12:00 | On-the-job learning session | Dağhan DAĞDELEN | Practice |
| 13:00: 14:00 | Wound Healing and Principles of Reconstruction  | Zeynep Deniz AKDENİZ DOĞAN | Lecture |
| 14:00-15:00 | Maxillofacial trauma  | Zeynep Deniz AKDENİZ DOĞAN | Lecture |
| 15:00-16:00 | Burns and Management  | Dağhan DAĞDELEN | Lecture |
| **Wednesday** |
| 09.00-10:00 | On-the-job learning session | Ahmet Hamdi SAKARYA | Practice |
| 10:00- 11:00 | On-the-job learning session | Dağhan DAĞDELEN | Practice |
| 11: 00- 12:00 | On-the-job learning session | Şeyda GÜRAY EVİN | Practice |
| 13:00: 14:00 | Orthognatic Surgery  | Nihal DURMUŞ KOCAASLAN | Lecture |
| 14:00-15:00 |  Cleft Lip and Palate | Nihal DURMUŞ KOCAASLAN | Lecture |
| 15:00-16:00 | Pediatric Plastic Surgery | Şeyda GÜRAY EVİN | Lecture |
| **Thursday** |
| 09.00-10:00 | Head and Neck Examination | Bülent SAÇAK | Practice |
| 10:00- 11:00 | Head and Neck Examination | Bülent SAÇAK | Practice |
| 11: 00- 12:00 | Head and Neck Examination | Ahmet Hamdi SAKARYA | Practice |
| 13:00: 14:00 | Skin Tumors  | Bülent SAÇAK | Lecture |
| 14:00-15:00 | Head and Neck Tumours  | Bülent SAÇAK | Lecture |
| 15:00-16:00 | Hand Surgery  | Ahmet Hamdi SAKARYA | Lecture |
| **Friday** |
| 09.00-10:00 | Professionalism and Counseling |  |  |
| 10:00- 11:00 | Professionalism and Counseling |  |  |
| 11: 00- 12:00 | Professionalism and Counseling |  |  |
| 13:00: 14:00 | Professionalism and Counseling |  |  |
| 14:00-15:00 | Professionalism and Counseling |  |  |
| 15:00-16:00 | Professionalism and Counseling |  |  |

**1. SPECİFİC SURGİCAL DİSORDERS AND INVASİVE PROCEDURES BLOCK 4 WEEKS)**

**1.3. THORACIC SURGERY (1 WEEK)**

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| **3rd Week (27 / 31 May 2024)** |
| **Time** | **Lecture/Subject** | **Lecturers** | **Theoretical / Practical** |
| **Monday** |
| 09.00-10:00 | On-the-job learning session | Tunç LAÇİN | Practice |
| 10:00- 11:00 | On-the-job learning session | Tunç LAÇİN | Practice |
| 11: 00- 12:00 | On-the-job learning session | Tunç LAÇİN | Practice |
| 13:00: 14:00 |  Introduction to Thoracic Surgery  | Nezih Onur ERMERAK | Lecture |
| 14:00-15:00 | Chest Tube Insertion | Nezih Onur ERMERAK | Lecture |
| 15:00-16:00 | Chest Wall Disorders  | Tunç LAÇİN | Lecture |
| **Tuesday** |
| 09.00-10:00 | On-the-job learning session | Nezih Onur ERMERAK | Practice |
| 10:00- 11:00 | On-the-job learning session | Nezih Onur ERMERAK | Practice |
| 11: 00- 12:00 | On-the-job learning session | Nezih Onur ERMERAK | Practice |
| 13:00: 14:00 | Professionalism and Counseling |  |  |
| 14:00-15:00 | Professionalism and Counseling |  |  |
| 15:00-16:00 | Professionalism and Counseling |  |  |
| **Wednesday** |
| 09.00-10:00 | On-the-job learning session | Korkut BOSTANCI | Practice |
| 10:00- 11:00 | On-the-job learning session | Korkut BOSTANCI | Practice |
| 11: 00- 12:00 | On-the-job learning session | Korkut BOSTANCI | Practice |
| 13:00: 14:00 | Dysphagia | Tunç LAÇİN | Lecture |
| 14:00-15:00 | Benign and malignant esophageal diseases | Nezih Onur ERMERAK | Lecture |
| 15:00-16:00 | Mediastinal Diseases | Tunç LAÇİN | Lecture |
| **Thursday** |
| 09.00-10:00 | On-the-job learning session | Bedrettin YILDIZELİ | Practice |
| 10:00- 11:00 | On-the-job learning session | Bedrettin YILDIZELİ | Practice |
| 11: 00- 12:00 | On-the-job learning session | Bedrettin YILDIZELİ | Practice |
| 13:00: 14:00 | Surgical Treatment of lung Cancer | Bedrettin YILDIZELİ | Lecture |
| 14:00-15:00 | Acute and Chronic Thromboembolism | Bedrettin YILDIZELİ | Lecture |
| 15:00-16:00 | Thoracic trauma  | Tunç LAÇİN | Lecture |
| **Friday** |
| 09.00-10:00 | On-the-job learning session | Nezih Onur ERMERAK | Practice |
| 10:00- 11:00 | On-the-job learning session | Nezih Onur ERMERAK | Practice |
| 11:00- 12:00 | On-the-job learning session | Nezih Onur ERMERAK | Practice |
| 13:00: 14:00 | LVRS and ELVR in COPD  | Korkut BOSTANCI | Lecture |
| 14:00-15:00 |  Secondary Pulmonary Tumors  | Korkut BOSTANCI | Lecture |
| 15:00-16:00 |  Pulmonary Aspergilloma | Tunç LAÇİN | Lecture |

**1. SPECİFİC SURGİCAL DİSORDERS AND INVASİVE PROCEDURES BLOCK 4 WEEKS)**

**1.4. CARDIOVASCULAR SURGERY (1 WEEK)**

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| **4th Week (03 / 07 June 2024)** |
| **Time** | **Lecture/Subject** | **Lecturers** | **Theoretical / Practical** |
| **Monday** |
| 09.00-10:00 | On-the-job learning session | Koray AK | Practice |
| 10:00- 11:00 | On-the-job learning session | Koray AK | Practice |
| 11: 00- 12:00 | On-the-job learning session | Koray AK | Practice |
| 13:00: 16:00 | Follow up after cardiac surgery  | Sinan ARSAN | Lecture |
| **Tuesday** |
| 09.00-10:00 | On-the-job learning session | Fatih ÖZTÜRK | Practice |
| 10:00- 11:00 | On-the-job learning session | Fatih ÖZTÜRK | Practice |
| 11: 00- 12:00 | On-the-job learning session | Fatih ÖZTÜRK | Practice |
| 13:00: 16:00 | Cardiopulmonary bypass, CABG, vascular conduits  | Fatih ÖZTÜRK | Lecture |
| **Wednesday** |
| 09.00-10:00 | On-the-job learning session | Elif DEMİRTAŞ | Practice |
| 10:00- 11:00 | On-the-job learning session | Elif DEMİRTAŞ | Practice |
| 11: 00- 12:00 | On-the-job learning session | Elif DEMİRTAŞ | Practice |
| 13:00: 16:00 | Aortic dissection and vascular emergencies  | Elif DEMİRTAŞ | Lecture |
| **Thursday** |
| 09.00-10:00 | On-the-job learning session | Yaşar BİRKAN | Practice |
| 10:00- 11:00 | On-the-job learning session | Yaşar BİRKAN | Practice |
| 11: 00- 12:00 | On-the-job learning session | Yaşar BİRKAN | Practice |
| 13:00: 15:00 | Congenital cardiac surgery  | Koray AK | Lecture |
| 15:00: 16:00 | Valvular heart diseases, valve substitutes  | Yaşar BİRKAN | Lecture |
| **Friday** |
| 09.00-12:00 | EXAMs |  |  |