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| **Clinical Education Program**  **Phase 2 / Year 5**  **2021-2022**  **Nervous System & Mental and Related Disorder Clerkship Program** | | |
| **Coordinators of Program**  Assoc. Prof. Ferhat Harman | | |
| **Coordinator of Year 5**  Prof. Ela Erdem Eralp | | |
| **Vice Coordinator of Assessment**  Prof. Hasan Raci Yananlı |  | **Vice Coordinator of Student Affairs**  Assist. Prof. Can Erzik |
| **Chief Coordinator of Clinical Education**  Prof., Dilek İnce Günal | | |
| **Co-Coordinator of Medical Education Program Evaluation and Development Commission**  **(Undergraduate Program)**  Prof. Harika Alpay | | |
| **Vice Deans**  Prof. Hasan Raci Yananlı Prof. A. Altuğ Çinçin | | |
| **Dean**  Prof. Ümit S. Şehirli | | |

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| **MUSM CLINICAL EDUCATIONPROGRAM** |
| LEARNING OUTOMES /COMPETENCIES  **A. Clinical Care**: Qualified patient care and community-oriented healthcare   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**   1. Appropriate information retrieval and management skills 2. The integration of knowledge, critical thinking and evidence-based decision making 3. Scientific methods and basic research skills   **C. Professional Attitudes and Values**   1. Communication skills and effective communication with patients / patient relatives 2. Interpersonal relationships and teamworking 3. Ethical and professional values, responsibilities 4. Individual, social and cultural values and responsibilities 5. Reflective practice and continuing development 6. Healthcare delivery Systems, Management and community-oriented healthcare 7. Education and counseling |
| **PROGRAM SUMMARY**  PHASE-2 LEARNING OBJECTIVES  Developing clinical problem solving, clinical reasoning and evaluation competencies by integrating biomedical, clinical, social and humanities knowledge,  Competency acquisition in basic clinical skills by applications in real clinical settings.  Taking care of the professional values in health and disease processes (professional, individual, societal) and acquisition necessary related skills  Acquisition competency in reflective thinking and practicing, being open to continuous individual/professional development.  **Neurology**  Lecture: 14 hours  Clinical tutorial: 7 hours  On the job learning: 20 hours  Bedside: 8 hours  Educational meeting: 6 hours  Diagnostic procedures: 1 hour  Reflection:1 hour  **Total: 57 hours**  **Psychiatry**  Lecture: 19 hours  Clinical tutorial: 11 hours  On the job learning: 22 hours  Seminar: 4 hours  Grand Visit: 2 hours  Diagnostic procedures: 1 hour  Reflection session: 1 hour  **Total: 60 hours**  **Neurosurgery**  Lecture: 19 hours  Clinical tutorial: 2 hours  On the job learning: 28 hours  Diagnostic procedures: 4 hours  Reflection session: 1 hour  **Total: 55 hours**  **Multidisciplinary approach: 2 hours**  **Whole. 174 hours** |

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| **NERVOUS SYS. - MENTAL HEALTH and RELATED DISORDERS CLERKSHIP PROGRAM** (7WEEK) | |
| (COORDINATOR DEPARTMENTS)  Neurology  Psychiatry  Neurosurgery  FACULTY  Neurology  Barış Işak, MD  Dilek İnce Günal, MD  Gülin Sunter, MD  Hatice Ömercikoğlu Özden, MD  İpek Midi, MD  Kadriye Ağan Yıldırım, MD  Kayıhan Uluç, MD  Neşe Tuncer, MD  Pınar Kahraman Koytak, MD  Tülin Tanrıdağ, MD  Psychiatry  Axel Wurz, MD  Ayşe Sakallı Kani, MD  Kemal Sayar, MD  Mesut Yıldız, MD  Neşe Turan Yurtsever, MD  Neşe Yorguner, MD  Ömer Yanartaş, MD  Serhat Ergün, MD  Yıldız Akvardar, MD, PhD | Neurosurgery  Adnan Dağçınar, MD  Fatih Bayraklı, MD  Ferhat Harman, MD  İbrahim Ziyal, MD  Mustafa Sakar, MD  Yahya Güvenç  Yaşar Bayri, MD  (SUPPORTERDEPARTMENTS)  Infectious Diseases  Physical Medicine and Rehabilitation (PRM)  Plastic& Reconstructive Surgery (PRS)  Public Health  Chest Medicine  Forensic Medicine |
| LINES  Pathology Radiology | |
| LEARNING OBJECTIVES of CLERKSHIP PROGRAM   * Analyzing problems, understanding decision making and problem-solving processes by integrating knowledge related with nervous system-mental health and related disorders. * Gaining competencies in basic clinical skills * Understanding patient, disease and healthcare process management * Effective communication with patients, their relatives and health team; being open to collaboration and teamwork * Taking care of professional, societal and individual values, and develop behaviors accordingly * Taking care of patient and public benefit in medical practices by critical appraisal of the health systems and health policies   ASSESSMENT SYSTEM  Summative assessment:  Written exam at the end of clerkship (70% of final score)  Structured oral exam at the end of clerkship (30% of final score)  Bed-side assessment(pass/fail)  Formative assessment:  Follow up of student’s competency development in basic clinical skills and observations/evaluations in clinical settings using guidelines for further planning. At the “Reflection and Formative Assessment Session”, by using these guidelines, students’ developmental levels were evaluated and shared with them.  PROGRAMEVALUATION  Two evaluations are done; first at the end of the second week of the clerkship, second at the end of the clerkship. Evaluation during the clerkship is done orally; at the end of the clerk ship, in addition to this, structured forms are used. For this evaluation, two forms - one for students and one for the teachers- aroused. | |

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| **Phase-2 Clinical Education Program**  **Lifelong Healt program** | | | |
| **NERVOUS SYS. - MENTAL HEALTH and RELATED DISORDERS CLERKSHIP PROGRAM (7WEEK)** | | | |
|  | **Neurology** | **Psychiatry** | **Neurosurgery** |
| **Lecture** | **14** | **19** | **19** |
| **Clinical tutorial** | **7** | **11** | **2** |
| **On the job learning** | **20** | **22** | **28** |
| **Seminar** | **-** | **4** | **-** |
| **Bedside** | **8** | **-** | **-** |
| **Ground visit** | **-** | **2** | **-** |
| **Diagnostic procedures** | **1** | **1** | **4** |
| **Reflection session** | **1** | **1** | **1** |
| **Educational meeting** | **6** | **-** | **-** |
| **Multidisiplinary section** | **2** | **2** | **1** |
| **Total** | **59** | **62** | **55** |

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| **MARMARA UNIVERSITY SCHOOL OFMEDICINEPHASES-2 CLINICAL EDUCATIONPROGRAM**  **NERVOUS SYS. – MENTAL HEALTH and RELATED DIS. CLERKSHIPPROG.** |
| **SEVENTH WEEK PROGRAM** |

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| **1st WEEK** | | | | | |
|  | **MONDAY** | **TUESDAY** | **WEDNESDAY** | **THURSDAY** | **FRIDAY** |
|  | 09.00-09.20  Bedside:Introduction and orientation for the course  Kadriye Ağan Yıldırım MD  Online-live | 09.00-09.50  Bedside: Cranial nerves -I  İpek Midi MD/ Gülin Sünter MD / Hatice Ömercikoğlu Özden MD | 09.00-09.50-  Bedside: Cerebellar system exam  Dilek İnce Günal MD/ Neşe Tuncer MD/ Kadriye Ağan Yıldırım MD | 09.00-11.00  on the job learning (inpatient/outpatient ) | 09.00-11.00  on the job learning (inpatient/outpatient ) |
| 09.40-10.30  Lecture: Approach to the neurologic patient  Pınar Kahraman Koytak MD/ Gülin Sünter MD  Online live | 10.00-10.50  Bedside: Cranial nerves -II  İpek Midi MD/ Gülin Sünter MD / Hatice Ömercikoğlu Özden MD | 10.00-10.50  Bedside: Extrapyramidal system exam  Dilek İnce Günal MD/ Neşe Tuncer MD/ Kadriye Ağan Yıldırım MD |
| 11.00-12.00  Bedside: Orientation to the neurology clinic  Hatice Ömercikoğlu Özden MD  Online live | 11.00-12.00  Bedside: Motor examination  Tülin Tanrıdağ MD/ Kayıhan Uluç MD / Barış İşak MD | 11.00-11.50  Bedside: Sensory examination  Barış İşak / Pınar Kahraman Koytak MD / Gülin Sünter MD |
|  | 13.30-15.00  Lecture: Mental status examination  Neşe Tuncer MD/ Hatice Ömercikoğlu Özden MD  Online live | Learning and assessment session for the professionalism (individual and professional development and counseling) | 14.00-14.50  Lecture: Cerebrovascular disease- İpek Midi MD/ Hatice Ömercikoğlu Özden MD  Online live | Neurology department weekly educational meeting  Online live | 14.00-14.50  Lecture: Coma  Kayıhan Uluç MD  Online live |
| 15.00-15.50-  Clinical Tutorial- Case presentations in Cerebrovascular disease  İpek Midi MD/ Hatice Ömercikoğlu Özden MD  Online live | 15.00-15.50  Lecture: Acute confusional state  Kayıhan Uluç MD  Online live |
| **2nd WEEK** | | | | | |
|  | 09.00-11.00  on the job learning (inpatient/outpatient ) | 09.00-11.00  on the job learning (inpatient/outpatient ) | 09.00-11.00  on the job learning (inpatient/outpatient ) | 09.00-11.00  on the job learning (inpatient/outpatient ) | 09.00-11.00  on the job learning (inpatient/outpatient ) |
|  | 14.00-14.50  Lecture: Epilepsy  Kadriye Ağan Yıldırım MD/ İpek Midi MD  Online live | Learning and assessment session for the professionalism (individual and professional development and counseling) | 14.00-14.50  Lecture: Movement disorders  Dilek İnce Günal MD/ Neşe Tuncer MD/ Hatice Ömercikoğlu Özden MD  Online live | Neurology department weekly educational meeting  Online live | 14.00-14.50  Clinical tutorial:Headache  Tülin Tanrıdağ MD/ Pınar Kahraman Koytak MD  Online live |
| 15.00-15.50  Clinical tutorial: Coma (GCS)  Kayıhan Uluç MD  Online live | 15.00-15.50  Clinical tutorial: Case presentions in movement disorders  Dilek İnce Günal MD/ Neşe Tuncer MD/ Hatice Ömercikoğlu Özden MD  Online live | 15.00-15.50  Diagnostic procedures: Lumbar puncture & Neuroophtalmologic examination  Pınar Kahraman Koytak MD/ Kadriye Ağan Yıldırım MD  Online live |
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| **3th WEEK** | | | | | |
|  | 09.00-11.00  on the job learning (inpatient/outpatient ) | 09.00-11.00  on the job learning (inpatient/outpatient ) | 09.00-11.00  on the job learning (inpatient/outpatient ) | 09.30-10.20  Lecture: Myasthenia Gravis  Tülin Tanrıdağ MD  Online live | 09.30-10.20  Clinical Tutorial: Neuromuscular disease  Tülin Tanrıdağ MD  Online live |
| 11.00-11.50  Lecture: Polyneuropathies  Kayıhan Uluç MD  Online live | 11.00-11.50  Lecture: Dementia  Neşe Tuncer MD/ Dilek İnce Günal MD/ Hatice Ömercikoğlu Özden MD  Online live |
|  | 14.00-14.50  Lecture: Demyelinating diseases  Dilek İnce Günal MD/ Kadriye Ağan Yıldırım MD/ Gülin Sünter MD  Online live | Learning and assessment session for the professionalism (individual and professional development and counseling) | 14.00-14.50  Lecture: Motor neuron disorders  Barış İşak MD  Online live | Neurology department weekly educational meeting  Online live | 14.00-14.50  Lecture: Sleep and its disorders  Kadriye Ağan Yıldırım MD/ Gülin Sünter MD  Online live |
| 15.00-15.50  Clinical tutorial: Case presentations in MS & related disorders  Dilek ince Günal MD/ Kadriye Ağan Yıldırım MD/ Gülin Sünter MD  Online live | 15.00-15.50  Lecture: Myopathies  Barış İşak MD  Online live | 15.00-15.50  Clinical Tutorial- Case presentations in epilepsy  Kadriye Ağan Yıldırım MD/ İpek Midi MD  Online live |
| 15.50-16.50  Reflection  Kadriye Ağan Yıldırım MD |

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| **4th WEEK** | | | | | |
|  | **MONDAY** | **TUESDAY** | **WEDNESDAY** | **THURSDAY** | **FRIDAY** |
| 09.00-09.45 | **Lecture**  Introduction to Psychiatry and MentalStatusExamination  **Axel Wurz, MD**  **Online live** | **Lecture**  Psychotic Disorders  **Mesut Yıldız, MD**  **Online live** | **Seminar Hour** | **On-the-job learning and assessment session**  Psychiatry | **Lecture**  Anxiety Disorders & OCD  **Serhat Ergün, MD**  **Online live** |
| 9.45-  10.30 |
| 10.45-11.30 | ***Grand Visit*** | **Lecture**  Bipolar Disorders  **Neşe Yorguner, MD**  **Online live** | **Lecture**  Alcohol and Substance Use Disorders  **Yıldız Akvardar, MD, PhD**  **Online live** | **Lecture**  Somatoform Disorders  **Kemal Sayar, MD**  **Online live** |
| 11.45-12.30 | **On-the-job learning and assessment session**  Psychiatry |  | **Lecture**  DepressiveDisorders  **Kemal Sayar, MD**  **Online live** |
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| 13.30-14.15 | **Clinical Tutorial**  Psychiatric Interviewing and  Mental Status Examination  **Ayşe Sakallı Kani, MD**  **Online live** | **Learning and assessment session for the professionalism**  (Individualandprofessionaldevelopmentandcounseling) | **Clinical Tutorial**  Manic Patient  **Neşe Yorguner, MD**  **Online live** | **Clinical Tutorial**  **Dependent Patient**  **Yıldız Akvardar, MD, PhD**  **Online live** | **ClinicalTutorial**  Obsessive Compulsive Patient  **Serhat Ergün, MD**  **Online live** |
| 14.30-15.15 | **Clinical Tutorial**  Psychotic Patient  **Mesut Yıldız, MD**  **Online live** | **On-the-job learning and assessment session**  Psychiatry | **On-the-job learning and assessment session**  Psychiatry | **Clinical Tutorial**  Anxious Patient  **Serhat Ergün, MD**  **Online live** |
| 15.30-16.15 | **ClinicalTutorial**  Drug Treatment in Psychiatry  **Mesut Yıldız, MD**  **Online live** | **On-the-job learning and assessment session**  Psychiatry |
| 16.30-17.15 | **MAKE-UP CLASSES** |

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| **5th WEEK** | | | | | |
|  | **MONDAY** | **TUESDAY** | **WEDNESDAY** | **THURSDAY** | **FRIDAY** |
| 09.00-09.45 | **Lecture**  Dissociative Disorders  Ömer Yanartaş, MD  **Online live** | **Lecture**  Principles of Psychopharmacology  **Mesut Yıldız, MD**  **Online live** | **Seminar Hour** | **Lecture**  Psychiatric Disorders Related to Psychic Trauma  **Axel Wurz, MD**  **Online live** | **Lecture**  Eating Disorders  **Neşe Yorguner, MD**  **Online live** |
| 09.45-10.30 | **Lecture**  Psychotherapies  **Axel Wurz, MD**  **Online live** | **Lecture**  Personality Disorders  **Ayşe Sakallı Kani, MD**  **Online live** |
| 10.45-11.30 | ***Grand Visit*** | **On-the-job learning and assessment session**  Psychiatry | **Lecture**  Preventive Psychiatry  **Yıldız Akvardar, MD,** **PhD**  **Online live** | **On-the-job learning and assessment session**  Psychiatry |
| 11.45-12.30 | **MAKE-UP CLASSES** |
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| 13.30-14.15 | **Clinical Tutorial**  DepressivePatient  **Ömer Yanartaş,MD**  **Online live** | **Learning and assessment session for the professionalism**  (Individual and Professional development and counseling) | **On-the-job learning and assessment session**  Psychiatry | **Diagnostic procedures**  Reporting in Forensic Psychiatry& Evaluation of Legal Capacity  Nurşen Turan Yurtsever, MD  **Online live** | **Clinical Tutorial**  Patient with Psychological Trauma  **Ayşe Sakallı Kani, MD**  **Online live** |
| 14.30-15.15 | **Clinical Tutorial**  Suicidal and Agitated Patient  **Ömer Yanartaş, MD**  **Online live** | **On-the-job learning and assessment session**  Psychiatry | **On-the-job learning and assessment session**  Psychiatry |
| 15.30-16.15 | **MAKE-UP CLASSES** |
| 16.30-17.15 | **MAKE-UP CLASSES** | **Reflection session**  Reflection on weekly clinical and educational experiences  Psychiatry  Serhat Ergün, MD |

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| **6th WEEK** | | | | | |
|  | **MONDAY** | **TUESDAY** | **WEDNESDAY** | **THURSDAY** | **FRIDAY** |
| 09.00-  11.45 | **On-the-job learning and assessment session**  Neurosurgery | **On-the-job learning and assessment session**  Neurosurgery | **On-the-job learning and assessment session**  Neurosurgery | **On-the-job learning and assessment session**  Neurosurgery | **On-the-job learning and assessment session**  Neurosurgery |
| 11:45-  12:30 | **Lecture**  Injuries of Peripheral Nervous System and Entrapment Syndromes  Mustafa Sakar, MD  **Online live** | **Clinical Tutorial**  Case Discussions  Mustafa Sakar,MD  **Online live** |
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| 13.30-  14.15 | **Lecture**  Introduction to Neurosurgery  İbrahim Ziyal, MD  **Online live** | **Learning andassessment session for the professionalism**  (Individual and professional development and counseling) | **Diagnosticprocedures**  Diagnostic approaches to raised intracranial pressure syndrome  Ferhat Harman,MD  **Online live** | **Lecture**  Pediatric Neurosurgical Tumors  Adnan Dağçınar,MD  **Online live** | **Lecture**  Cerebral Vascular Pathologies  Yaşar  Bayri, MD  **Online live** |
| 14.30-  15.15 | **Lecture**  CNS tumors  İbrahim Ziyal,MD  **Online live** | **Lecture**  Pediatric Congenital Lesions  Adnan Dağçınar,MD  **Online live** |
| 15.30-  16.15 | **Lecture**  CNS Tumors SüheylaBozkurt,MD  **Online live** |
| 16.30-  17.15 | **Lecture**  Differential diagnosis of mass lesions  Süheyla Bozkurt,MD  **Online live** | **Clinical Tutorial**  Spinal degenerative diseases and spinal deformities  Ferhat Harman,,MD  **Online live** | **Lecture**  Rehabilitation of Stroke and Traumatic Brain Injuries Rehabilitation of Spinal  Cord Injuries  Özge Keniş Coşkun, MD    **Online live** | **Lecture**  Central Nervous System Infections  Mustafa Sakar, MD  **Online live** |

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| **7th WEEK** | | | | | |
|  | **MONDAY** | **TUESDAY** | **WEDNESDAY** | **THURSDAY** | **FRIDAY** |
| 09.00-  11.45 | **On-the-job learning and assessment session**  Neurosurgery | **On-the-job learning and assessment session**  Neurosurgery | **On-the-job learning and assessment session**  Neurosurgery | **MAKE-UP CLASSES** | **WRITTEN**  **EXAMINATION**  **Prof. Dr. Işıl Barlan Conference Hall** |
| **MAKE-UP CLASSES** |
| 11.45-  12.30 | **Multidisciplinary learning session** DIFFERENT APPROACHES TO THE PATIENT WITH PAIN  ÖmerYanartaş,MD  Ferhat Harman, MD  Tülin Tanrıdağ MD  **Online Live** | **Diagnostic procedures**  Diagnostics imaging methods for the head and spinal traumas  Onur Buğdaycı, MD  Online live | **MAKE-UP CLASSES** | **ORAL EXAMINATION**  **Neurosurgery Departement** |
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| 13.30-  14.15 | **Multidisciplinary learning session**  CASES WITH NO CLEAR DIAGNOSIS  ÖmerYanartaş, MD  GülinSunter,MD    **Online Live** | **Learning andassessment session for the professionalism**  (Individual and professional development and counseling) | **Lecture**  StereotacticNeurosurgical Methods  and  Gamma-Knife  FatihBayraklı, MD  **Online live** | **MAKE-UP CLASSES** | **ORAL EXAMINATION**  **Psychiatry Department** |
| 14.30-  15.15 | **Lecture**  Approach to the patient with meningitis  Uluhan Sili,MD  **Online Live** | **MAKE-UP CLASSES** |
| 15.30-  16.15 | **Lecture**  Spinal Injury  Yahya Güvenç, MD  **Online live** | **Lecture**  Functional Neurosurgey  FatihBayraklı, MD  **Online live** | **MAKE-UP CLASSES** | **PROGRAM EVALUATION**  **(Reflection and Formative Assessment session)**  Evaluation of clerkship program and the 6-week training process  Ferhat HARMAN, MD (Program Coordinator)  **Prof. Dr. Işıl Barlan Conference Hall** |
| 16.30-  17.15 | **Lecture**  Spinal Infections and Spinal Tumors  Yahya Güvenç, MD  **Online live** | **Reflection session**  Reflection on weekly clinical and educational experiences  Neurosurgery  Ferhat Harman, MD  **Prof. Dr. Işıl Barlan Conference Hall** | **MAKE-UP CLASSES** |