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| **Clinical Education Program****Phase 2 / Year 5****2022-2023****Group 2****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, M.D. |
| **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 healthcare1. 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
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| PHASE-2 LEARNING OBJECTIVESDeveloping 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 skillsAcquisition competency in reflective thinking and practicing, being open to continuous individual/professional development.**PROGRAM SUMMARY****Neurology**Lecture: 14 hoursClinical tutorial: 7 hoursOn the job learning: 20 hoursBedside: 8 hoursEducational meeting: 6 hoursDiagnostic procedures: 1 hourReflection:1 hour**Total: 57 hours****Psychiatry**Lecture: 19 hoursClinical tutorial: 11 hoursOn the job learning: 22 hoursSeminar: 4 hoursGrand Visit: 2 hoursDiagnostic procedures: 1 hourReflection session: 1 hour**Total: 60 hours****Neurosurgery**Lecture: 21 hoursClinical tutorial: 2 hoursOn the job learning: 28 hoursDiagnostic procedures: 1 hoursReflection 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 DEPARTMENTSNöroloji /NeurologyRuh Sağlığı ve Hastalıkları /PsychiatryBeyin ve SinirCerrahisi /NeurosurgeryFACULTY / ÖĞRETİM ÜYELERİNeurology/NörolojiBarış Işak, MDDilek İnce Günal, MDGülin Sunter, MDHatice Ömercikoğlu Özden, MDİpek Midi, MDKadriye Ağan Yıldırım, MDTülin Tanrıdağ, MDPsychiatry/ PsikiyatriAyşe Sakallı Kani, MDKemal Sayar, MDMesut Yıldız, MDNeşe Turan Yurtsever, MDNeşe Yorguner, MDÖmer Yanartaş, MDYıldız Akvardar, MD, PhD | Neurosurgery/NöroşirurjiAdnan Dağçınar, MDFatih Bayraklı, MDFerhat Harman, MDİbrahim Ziyal, MDMustafa Sakar, MDYahya GüvençSUPPORTERDEPARTMENTSInfectious DiseasesPhysical Medicine and Rehabilitation (PRMPlastic& Reconstructive Surgery (PRS)Public Health Chest MedicineForensic Medicine |
| TÜM PROGRAMLAR İÇİN ORTAK ANABİLİM DALLARI /LINESPathology 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 SYSTEMSummative 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.PROGRAMEVALUATIONTwo 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 GROUP 4****NERVOUS SYS. – MENTAL HEALTH and RELATED DIS. CLERKSHIPPROG.** |

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| **1st WEEK: Sep. 5th-9th** |
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|  | **MONDAY** | **TUESDAY** | **WEDNESDAY** | **THURSDAY** | **FRIDAY** |
|  | 09.00-09.20 Bedside:Introduction and orientation for the courseKadriye Ağan Yıldırım MD | 09.00-10.30Bedside: Cranial nerves İpek Midi MD/ Gülin Sünter MD Berin Gülatar Türkoğlu MD | 09.00-09.45- Bedside: Cerebellar system examDilek İnce Günal MD/ Kadriye Ağan Yıldırım MD/ Hatice Ömercikoğlu Özden MD |  **09.00-10.30****On-the-job learning and assessment session****(inpatient/outpatient )** **Neurology** |  **09.00-12.00****On-the-job learning and assessment session****(inpatient/outpatient )**  **Neurology** |
| 09.40-10.30 Lecture: Approach to the neurologic patientGülin Sunter MD | 10.00-10.50Bedside: Extrapyramidal system exam Dilek İnce Günal MD/ Kadriye Ağan Yıldırım MD/ Hatice Ömercikoğlu Özden MD | 11.00-11.50Lecture: Acute confusional stateİpek Midi MD/ Kadriye Ağan Yıldırım MD |
| 11.00-11.50 Lecture: Mental status examinationHatice Ömercikoğlu Özden MD | 11.00-12.00Bedside: Motor examination Barış Işak MD/ Hatice Ömercikoğlu Özden MD / Berin Gülatar Türkoğlu MD | 11.00-11.50Bedside: Sensory examination Barış İşak / Gülin Sünter MD / Berin Gülatar Türkoğlu MD |
|  | 13.30-13.50Diagnostic procedures: (ex: Lumbar puncture & Neuroophtalmologic examination &EMG & EEG)Dilek İnce Günal MD | 13.00-13.50Lecture: Cerebrovascular disease- İpek Midi MD/ Hatice Ömercikoğlu Özden MD | **13.30-15.30****On the job learning (inpatient/outpatient )** | 13.00-17.00Neurology department weekly educational meeting | 14.00-14.50Lecture: ComaGülin Sünter MD / Hatice Ömercikoğlu Özden MD |
| 14.00-14.50Clinical Tutorial- Case presentations in Cerebrovascular diseaseİpek Midi MD/ Hatice Ömercikoğlu Özden MD |

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| **2nd WEEK: Sep. 12th-12th** |
|  | **MONDAY** | **TUESDAY** | **WEDNESDAY** | **THURSDAY** | **FRIDAY** |
|  | **09.00-10.30****On-the-job learning and assessment session** **Neurology** | **09.00-12.00****On-the-job learning and assessment session** **Neurology** | **09.00-12.00****On-the-job learning and assessment session** **Neurology** |  **09.00-10.30** **On-the-job learning and assessment session**  **Neurology** |  09.00-09.50Lecture Myasthenia GravisTülin Tanrıdağ MD |
| 10.00-10.50Clinical tutorial: Neuromuscular diseaseTülin Tanrıdağ MD  |
|  | 11.00-11.50Lecture: Sleep and its disordersKadriye Ağan Yıldırım MD/ Gülin Sünter MD |  11.00-11.50 Lecture: Epilepsy Kadriye Ağan Yıldırım MD/  İpek Midi MD | 11.00-11.50Clinical Tutorial: HeadacheTülin Tanrıdağ MD  |
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|  |  **13.30-15.30** **On-the-job learning and assessment session****(inpatient/ outpatient)**  **Neurology**  |  13.00-13.50 Lecture Demyelinating Disease Gülin Sünter MD/  Kadriye Ağan Yıldırım MD /  Dilek İnce Günal MD | 13.00-13.50Lecture: Movement disordersDilek İnce Günal MD/ Hatice Ömercikoğlu Özden MD |  Neurology department weekly  educational meeting  |   **14.00-15.30****On-the-job learning** **and assessment session****(inpatient/ outpatient)**  **Neurology**    |
|  | 14.00-14.50Clinical tutorial: Case presentations in MS & related disorders Dilek ince Günal MD/ Kadriye Ağan Yıldırım MD/ Gülin Sünter MD |  14.00-14.50Clinical tutorial: Case presentions in movement disorders Dilek İnce Günal MD/ Hatice Ömercikoğlu Özden MD |

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| **3th WEEK: Sep. 19th-23th** |
|  | **MONDAY** | **TUESDAY** | **WEDNESDAY** | **THURSDAY** | **FRIDAY** |
|  | 09.00-09.50Lecture: Dementia Hatice Ömercikoğlu Özden MD | **09.00-10.30****On-the-job learning and assessment session**  **(inpatient/ outpatient)** **Neurology** | **09.00-12.00****On-the-job learning and assessment session** **(inpatient/ outpatient)****Neurology** |  **09.00-10.30****On-the-job learning and assessment session**  **(inpatient/ outpatient)**  **Neurology** |  09.00-11.30Oral examination of Neuorology |
|  |  **10.30-12.00** **On-the-job learning and**  **assessment session**  **(inpatient/ outpatient)**  **Neurology** | 11.00-11.50Lecture: PolyneuropathiesBarış İşak MD | 11.00-11.50Clinical TutorialCase presentations in Epilepsyİpek Midi MD/ Kadriye Ağan Yıldırım MD | **Reflection session**Reflection on weekly clinical and educational experiencesNeuology Kadriye Ağan Yıldırım MD |
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|  | 13.00-13.50Clinical Tutorial: ComaGülin Sünter MD / Hatice Ömercikoğlu Özden MD | 13.00-13.50Lecture: Motor neuron disordersBarış İşak MD  |  **13.30-15.30** **O the-job learning and**  **assessment session**  **(inpatient/ outpatient)**  **Neurology** |  Neurology department weekly  educational meeting  | **MAKE-UP CLASSES** |
|  |  **14.00-15.30** **On the-job learning and**  **assessment session**  **(inpatient/ outpatient)**  **Neurology** | 14.00-14.50Lecture MyoptahiesBarış İşak MD |

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| **4th WEEK: Sep. 26th-30th** |
|  | **MONDAY** | **TUESDAY** | **WEDNESDAY** | **THURSDAY** | **FRIDAY** |
| 09.00-09.45 | **Lecture**Introduction to Psychiatry and MentalStatusExamination**Neşe Yorguner, MD** | **Lecture**Psychotic Disorders**Mesut Yıldız, MD** | **Seminar Hour** | **On-the-job learning and assessment session**Psychiatry | **Lecture**Anxiety Disorders & OCD**Ömer Yanartaş , MD**  |
| 09.45-10.30 |
| 10.45-11.30 | ***Grand Visit*** | **Lecture**Bipolar Disorders**Neşe Yorguner, MD** | **Lecture**Alcohol and Substance Use Disorders**Yıldız Akvardar, MD, PhD** | **Lecture**Somatoform Disorders**Kemal Sayar, MD**  |
| 11.45-12.30 | **On-the-job learning and assessment session**Psychiatry | **Lecture**DepressiveDisorders**Kemal Sayar, MD** |
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| 13.30-14.15 | **Clinical Tutorial**Psychiatric Interviewing andMental Status Examination **Neşe Yorguner, MD**  | **On-the-job learning and assessment session**Psychiatry | **Clinical Tutorial****Manic Patient****Neşe Yorguner, MD** |  **Clinical Tutorial****Dependent Patient****Yıldız Akvardar, MD, PhD** | **ClinicalTutorial**Obsessive Compulsive Patient**Ömer Yanartaş, MD** |
| 14.30-15.15 | Psychotic Patient**Mesut Yıldız, MD**  | **On-the-job learning and assessment session**Psychiatry | **On-the-job learning and assessment session**Psychiatry | **Clinical Tutorial****Anxious Patient****Ömer Yanartaş , MD** |
| 15.30-16.15 | **ClinicalTutorial**Drug Treatment in Psychiatry**Mesut Yıldız, MD** | **On-the-job learning and assessment session**Psychiatry |
| 16.30-17.15 | **MAKE-UP CLASSES** |

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| **5th WEEK: Oct. 3th-7th** |
|  | **MONDAY** | **TUESDAY** | **WEDNESDAY** | **THURSDAY** | **FRIDAY** |
| 09.00-09.45 | **Lecture**Dissociative DisordersÖmer Yanartaş, MD | **Lecture**Principles of Psychopharmacology**Mesut Yıldız, MD** | **Seminar Hour** | **Lecture**Psychiatric Disorders Related to Psychic Trauma**Ömer Yanartaş, MD** | **Lecture**Eating Disorders**Neşe Yorguner, MD** |
| 09.45-10.30 | **Lecture**Psychotherapies**Yıldız Akvardar, MD,PhD** | **Lecture**Personality Disorders**Ayşe Sakallı Kani, MD**  |
| 10.45-11.30 | ***Grand Visit*** | **On-the-job learning and assessment session**Psychiatry | **Lecture**Preventive Psychiatry**Yıldız Akvardar, MD,** **PhD** | **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**Ayşe Sakallı Kani, MD**  | **On-the-job learning and assessment session**Psychiatry | **On-the-job learning and assessment session**Psychiatry | **Diagnostic procedures**Reporting in Forensic Psychiatry& Evaluation of Legal CapacityNurşen Turan Yurtsever, MD | **Clinical Tutorial**Patient with Psychological Trauma**Ömer Yanartaş, MD**  |
| 14.30-15.15 | **Clinical Tutorial**Suicidal and Agitated Patient**Ayşe Sakallı Kani, MD** | **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 sessionReflection on weekly clinical and educational experiencesPsychiatry **Ayşe Sakallı Kani, MD** |

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| **6th WEEK: Oct. 10th-14th** |
|  | **MONDAY** | **TUESDAY** | **WEDNESDAY** | **THURSDAY** | **FRIDAY** |
| 09.00-11.00 | **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 |
| 11:00-12:00 | **Lecture**Injuries of Peripheral Nervous System and Entrapment SyndromesMustafa Sakar, MD | **Clinical Tutorial**Case DiscussionsMustafa Sakar,MD |
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| 13.30-14.15 | **Lecture**Introduction to Neurosurgeryİbrahim Ziyal, MD | **On-the-job learning and assessment session**Neurosurgery | **Lecture**Pediatric Neurosurgical TumorsAdnan Dağçınar,MD | **Lecture**Head trauma and raised intracranial pressureFerhat Harman,MD | **Lecture**StereotacticNeurosurgical MethodsandGamma-KnifeFatihBayraklı, MD |
| 14.30-15.15 | **Lecture**CNS tumorsİbrahim Ziyal,MD | **Lecture**Pediatric Congenital LesionsAdnan Dağçınar,MD |
| 15.30-16.15 | **Lecture**CNS Tumors SüheylaBozkurt,MD |  **Clinical Tutorial**Spinal degenerative diseases and spinal deformitiesFerhat Harman,,MD | **Lecture**Functional NeurosurgeyFatihBayraklı, MD |
| 16.30-17.15 | **Lecture**Differential diagnosis of mass lesionsSüheyla Bozkurt,MD | **Lecture**Rehabilitation of Stroke and Traumatic Brain Injuries Rehabilitation of SpinalCord InjuriesÖzge Keniş Coşkun, MD | **On-the-job learning and assessment session**Neurosurgery | **Lecture**Central Nervous System InfectionsMustafa Sakar, MD |

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| **7th WEEK: Oct. 17th- 21th** |
|  | **MONDAY** | **TUESDAY** | **WEDNESDAY** | **THURSDAY** | **FRIDAY** |
| 09.00-11.00 | **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 | **WRITTEN** **EXAMINATION****Prof. Dr. Işıl Barlan Conference Hall** |
| 11.00-12.00 | **Multidisciplinary learning session** DIFFERENT APPROACHES TO THE PATIENT WITH PAINÖmerYanartaş,MDFerhat Harman, MDHatice Ömercikoğlu Özden MD  | **Diagnostic procedures**Diagnostics imaging methods for the head and spinal traumas Aslıhan Semiz Oysu, MDOnline live | **ORAL EXAMINATION**  |
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| 13.30-14.15 | **Multidisciplinary learning session** CASES WITH NO CLEAR DIAGNOSISÖmerYanartaş, MD GülinSunter,MD | **Learning and assessment session for the professionalism**(Individual and Professional development and counseling) | **Lecture**Cerebral Vascular PathologiesMustafa Sakar, MD | On-the-job learning and assessment sessionNeurosurgery | **ORAL EXAMINATION**  |
| 14.30-15.15 | **Lecture**Approach to the patient with meningitis Zekaver Odabaşı,MD |
| 15.30-16.15 | **Lecture**Spinal InjuryYahya Güvenç, MD | **PROGRAM EVALUATION** **(Reflection and Formative Assessment session)**Evaluation of clerkship program and the 6-week training processFerhat HARMAN, MD (Program Coordinator)**Prof. Dr. Işıl Barlan Conference Hall** |
| 16.30-17.15 | **Lecture**Spinal Infections and Spinal TumorsYahya Güvenç, MD | Reflection sessionReflection on weekly clinical and educational experiencesNeurosurgeryFerhat Harman, MD**Prof. Dr. Işıl Barlan Conference Hall** |