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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 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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| **PROGRAM SUMMARY**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.**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: 19 hoursClinical tutorial: 2 hoursOn the job learning: 28 hoursDiagnostic procedures: 4 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 DEPARTMENTS)NeurologyPsychiatryNeurosurgeryFACULTY NeurologyBarış Işak, MDDilek İnce Günal, MDGülin Sunter, MDHatice Ömercikoğlu Özden, MDİpek Midi, MDKadriye Ağan Yıldırım, MDKayıhan Uluç, MDNeşe Tuncer, MDPınar Kahraman Koytak, MDTülin Tanrıdağ, MDPsychiatryAxel Wurz, MDAyşe Sakallı Kani, MDKemal Sayar, MDMesut Yıldız, MDNeşe Turan Yurtsever, MDNeşe Yorguner, MDÖmer Yanartaş, MDSerhat Ergün, MDYıldız Akvardar, MD, PhD | NeurosurgeryAdnan Dağçınar, MDFatih Bayraklı, MDFerhat Harman, MDİbrahim Ziyal, MDMustafa Sakar, MDYahya GüvençYaşar Bayri, MD (SUPPORTERDEPARTMENTS)Infectious Diseases Physical Medicine and Rehabilitation (PRM) Plastic& Reconstructive Surgery (PRS)Public Health Chest MedicineForensic Medicine |
| 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****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 courseKadriye Ağan Yıldırım MDOnline-live | 09.00-09.50Bedside: Cranial nerves -Iİpek Midi MD/ Gülin Sünter MD / Hatice Ömercikoğlu Özden MD | 09.00-09.50- Bedside: Cerebellar system examDilek İnce Günal MD/ Neşe Tuncer MD/ Kadriye Ağan Yıldırım MD | 09.00-11.00on the job learning (inpatient/outpatient ) | 09.00-11.00on the job learning (inpatient/outpatient ) |
| 09.40-10.30 Lecture: Approach to the neurologic patientPınar Kahraman Koytak MD/ Gülin Sünter MDOnline live | 10.00-10.50Bedside: Cranial nerves -IIİpek Midi MD/ Gülin Sünter MD / Hatice Ömercikoğlu Özden MD | 10.00-10.50Bedside: Extrapyramidal system exam Dilek İnce Günal MD/ Neşe Tuncer MD/ Kadriye Ağan Yıldırım MD |
| 11.00-12.00 Bedside: Orientation to the neurology clinicHatice Ömercikoğlu Özden MDOnline live | 11.00-12.00Bedside: Motor examination Tülin Tanrıdağ MD/ Kayıhan Uluç MD / Barış İşak MD | 11.00-11.50Bedside: Sensory examination Barış İşak / Pınar Kahraman Koytak MD / Gülin Sünter MD |
|  | 13.30-15.00Lecture: Mental status examinationNeşe Tuncer MD/ Hatice Ömercikoğlu Özden MDOnline live | Learning and assessment session for the professionalism (individual and professional development and counseling) | 14.00-14.50Lecture: Cerebrovascular disease- İpek Midi MD/ Hatice Ömercikoğlu Özden MDOnline live | Neurology department weekly educational meetingOnline live | 14.00-14.50Lecture: ComaKayıhan Uluç MDOnline live |
| 15.00-15.50- Clinical Tutorial- Case presentations in Cerebrovascular diseaseİpek Midi MD/ Hatice Ömercikoğlu Özden MDOnline live | 15.00-15.50Lecture: Acute confusional stateKayıhan Uluç MDOnline live |
| **2nd WEEK** |
|  | 09.00-11.00on the job learning (inpatient/outpatient ) | 09.00-11.00on the job learning (inpatient/outpatient ) | 09.00-11.00on the job learning (inpatient/outpatient ) | 09.00-11.00on the job learning (inpatient/outpatient ) | 09.00-11.00on the job learning (inpatient/outpatient ) |
|  | 14.00-14.50Lecture: EpilepsyKadriye Ağan Yıldırım MD/ İpek Midi MDOnline live | Learning and assessment session for the professionalism (individual and professional development and counseling) | 14.00-14.50Lecture: Movement disorders Dilek İnce Günal MD/ Neşe Tuncer MD/ Hatice Ömercikoğlu Özden MDOnline live | Neurology department weekly educational meetingOnline live | 14.00-14.50Clinical tutorial:HeadacheTülin Tanrıdağ MD/ Pınar Kahraman Koytak MDOnline live |
| 15.00-15.50Clinical tutorial: Coma (GCS)Kayıhan Uluç MDOnline live | 15.00-15.50Clinical tutorial: Case presentions in movement disorders Dilek İnce Günal MD/ Neşe Tuncer MD/ Hatice Ömercikoğlu Özden MDOnline live | 15.00-15.50Diagnostic procedures: Lumbar puncture & Neuroophtalmologic examinationPınar Kahraman Koytak MD/ Kadriye Ağan Yıldırım MDOnline live |
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| **3th WEEK** |
|  | 09.00-11.00on the job learning (inpatient/outpatient ) | 09.00-11.00on the job learning (inpatient/outpatient ) | 09.00-11.00on the job learning (inpatient/outpatient ) | 09.30-10.20Lecture: Myasthenia GravisTülin Tanrıdağ MDOnline live | 09.30-10.20Clinical Tutorial: Neuromuscular diseaseTülin Tanrıdağ MD Online live |
| 11.00-11.50Lecture: PolyneuropathiesKayıhan Uluç MDOnline live | 11.00-11.50Lecture: Dementia Neşe Tuncer MD/ Dilek İnce Günal MD/ Hatice Ömercikoğlu Özden MDOnline live |
|  | 14.00-14.50Lecture: Demyelinating diseases Dilek İnce Günal MD/ Kadriye Ağan Yıldırım MD/ Gülin Sünter MDOnline live | Learning and assessment session for the professionalism (individual and professional development and counseling) | 14.00-14.50Lecture: Motor neuron disordersBarış İşak MDOnline live | Neurology department weekly educational meetingOnline live | 14.00-14.50Lecture: Sleep and its disordersKadriye Ağan Yıldırım MD/ Gülin Sünter MDOnline live |
| 15.00-15.50Clinical tutorial: Case presentations in MS & related disorders Dilek ince Günal MD/ Kadriye Ağan Yıldırım MD/ Gülin Sünter MDOnline live | 15.00-15.50Lecture: MyopathiesBarış İşak MDOnline live | 15.00-15.50Clinical Tutorial- Case presentations in epilepsyKadriye Ağan Yıldırım MD/ İpek Midi MDOnline live |
| 15.50-16.50ReflectionKadriye 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 andMental 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 DisordersÖmer 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 CapacityNurşen 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 experiencesPsychiatry 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 SyndromesMustafa Sakar, MD**Online live** | **Clinical Tutorial**Case DiscussionsMustafa Sakar,MD**Online live** |
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| 13.30-14.15 | **Lecture**Introduction to Neurosurgeryİbrahim Ziyal, MD**Online live** | **Learning andassessment session for the professionalism**(Individual and professional development and counseling) | **Diagnosticprocedures**Diagnostic approaches to raised intracranial pressure syndromeFerhat Harman,MD**Online live** | **Lecture**Pediatric Neurosurgical TumorsAdnan Dağçınar,MD**Online live** | **Lecture**Cerebral Vascular PathologiesYaşarBayri, MD**Online live** |
| 14.30-15.15 | **Lecture**CNS tumorsİbrahim Ziyal,MD**Online live** | **Lecture**Pediatric Congenital LesionsAdnan Dağçınar,MD**Online live** |
| 15.30-16.15 | **Lecture**CNS Tumors SüheylaBozkurt,MD**Online live** |
| 16.30-17.15 | **Lecture**Differential diagnosis of mass lesionsSüheyla Bozkurt,MD**Online live** | **Clinical Tutorial**Spinal degenerative diseases and spinal deformitiesFerhat Harman,,MD**Online live** | **Lecture**Rehabilitation of Stroke and Traumatic Brain Injuries Rehabilitation of SpinalCord InjuriesÖzge Keniş Coşkun, MD  **Online live** | **Lecture**Central Nervous System InfectionsMustafa 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 PAINÖmerYanartaş,MDFerhat Harman, MDTülin Tanrıdağ MD **Online Live** | **Diagnostic procedures**Diagnostics imaging methods for the head and spinal traumas Onur Buğdaycı, MDOnline live | **MAKE-UP CLASSES** | **ORAL EXAMINATION** **Neurosurgery Departement** |
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| 13.30-14.15 | **Multidisciplinary learning session** CASES WITH NO CLEAR DIAGNOSISÖmerYanartaş, MD GülinSunter,MD  **Online Live** | **Learning andassessment session for the professionalism**(Individual and professional development and counseling) | **Lecture**StereotacticNeurosurgical MethodsandGamma-KnifeFatihBayraklı, 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 InjuryYahya Güvenç, MD**Online live** | **Lecture**Functional NeurosurgeyFatihBayraklı, MD**Online live** | **MAKE-UP CLASSES** | **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**Online live** | **Reflection session**Reflection on weekly clinical and educational experiencesNeurosurgeryFerhat Harman, MD**Prof. Dr. Işıl Barlan Conference Hall** | **MAKE-UP CLASSES** |