

**LEARNING OBJECTIVES: PSYCHIATRY MOOD DISORDERS AND NEUROMODULATION**  
**(Electroconvulsive Therapy and Repetitive Transcranial Magnetic Stimulation)**

<b>Overarching Goals</b>	<b>Elective objectives: By the end of the rotation, students will be expected to:</b>	<b>Where/how taught</b> <i>(location or learning activity)</i>	<b>Taught by</b> <i>(attending, fellows, etc.)</i>	<b>How student's achievement of objective is assessed</b> <i>(assessment method)</i>	<b>How feedback is given</b> <i>(feedback method)</i>	<b>Quantity target</b> <i>(target number of patients/events during rotation)</i>
<b>SWO: 2.1</b> <b>OG: 2, 3, 4</b>	1. <b>History skills:</b> Gather the important information that is needed for an ECT or TMS consult and document this in the chart for at least 2 patients. <ul style="list-style-type: none"> <li>a. The student should name all the routine psychiatric and medical history-taking questions that are involved in ECT/TMS screening and why they are being asked.</li> </ul>	VA Mental Health Clinic (MHC)	Attending, ECT/TMS resident	Direct observation during history taking; observation of history presentation during rounds.	Verbal feedback during and after history taking; during rounds.	2 patients
<b>SWO: 2.2</b> <b>OG: 3, 4</b>	2. <b>Physical examination skills:</b> Complete a mental status exam on approximately 5 patients who are undergoing ECT or TMS. The student should demonstrate the ability to perform the mental status examination while being observed by at least one attending or resident. <ul style="list-style-type: none"> <li>a. The student should know how to differentiate mood, anxiety, and psychotic symptoms.</li> <li>b. The student should be able to explain each part of the mental status examination, why it is being performed and what abnormalities are being sought.</li> </ul>	VA MHC	Attending, ECT/TMS resident	Direct observation.	Immediate verbal feedback.	5 patients
<b>SWO: 1.6, 1.10, 1.11, 2.3, 2.4, 2.8, 2.10</b> <b>OG: 2, 3, 8</b>	3. <b>Knowledge/diagnostic and treatment skills:</b> <ul style="list-style-type: none"> <li>a. Describe the epidemiology of and list DSM-5 criteria for the major mood disorders (Depressive Disorders, Bipolar Disorders).</li> <li>b. Describe the theoretical basis for the use of ECT, TMS, and other neuromodulation techniques in the treatment of mood disorders.</li> <li>c. List the indications, contraindications, risks, benefits and potential adverse effects of ECT and TMS.</li> <li>d. Discuss research avenues that are being pursued in ECT and TMS and the pathophysiologic rationale for such research.</li> </ul>	VA MHC	Attending, ECT/TMS resident	Direct observation of patient presentations on rounds; student to give brief presentation to team on ECT and/or TMS research during the rotation.	Immediate verbal feedback during rotation; written feedback at the end of rotation.	N/A

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<b>SWO: 2.8</b> <b>OG: 2, 4</b>	4. <b>Procedural skills:</b> <ol style="list-style-type: none"> <li>Discuss the process by which ECT and TMS are performed, including motor threshold determination in TMS.</li> <li>Assist in performing initial and follow-up ECT and TMS treatments.</li> <li>Perform standardized depression rating scales in the evaluation of patients undergoing TMS.</li> </ol>	VA MHC	Attending, ECT/TMS resident, ECT/TMS clinic staff	Direct observation.	Immediate verbal feedback during rotation; written feedback at the end of rotation.	5
<b>SWO: 3.1, 3.2, 3.4</b> <b>OG: 4, 5, 6</b>	5. <b>Attitude:</b> Demonstrate professional responsibility in working as a team member with other members of the MHC, patients and families. <ol style="list-style-type: none"> <li>The student should exhibit sensitivity to the psychosocial issues faced by psychiatric patients and their families.</li> <li>The student should exhibit honesty, accuracy and integrity in all interactions with patients, families, colleagues and others.</li> </ol>	VA MHC	Attending, ECT/TMS resident, ECT/TMS clinic staff	Observation during interactions with patients, families and staff.	Immediate verbal feedback during rotation; written feedback at the end of rotation.	Daily
<b>SWO: 4.3, 4.4</b> <b>OG: 4, 5</b>	6. <b>Career/context:</b> Know the training/career pathway for procedures in psychiatry. <ol style="list-style-type: none"> <li>Gain understanding of the role of psychiatrists and other clinicians who perform ECT and TMS in inpatient and outpatient settings.</li> <li>Appreciate the importance of interprofessional and team-based collaboration in psychiatric procedures.</li> </ol>	VA MHC	Attending, ECT/TMS resident	One on one conversation or discussions in small groups.	N/A	Weekly