

CLINICAL CARDIAC ELECTROPHYSIOLOGY

Department of Medicine

SCOPE OF PRACTICE

PGY-7 & PGY-8

All Clinical Cardiac Electrophysiology (CCEP) residents are expected:

- To be able to perform clinical skill sets outlined for the first 3 years of Cardiology Fellowship.
- To evaluate EP consults and admissions, develop a differential diagnosis, and initiate a plan of evaluation and management in conjunction with CCEP attending.
- To appropriately document all patient consultations and follow-up in patients' medical records.
- To supervise Internal Medicine or Family Medicine residents (PGY-1, -2, and -3) and Cardiology Fellows (PGY-4, -5, and -6) in the evaluation and management of patients with electrophysiologic problems followed by the CCEP Consult Service.
- To round with the CCEP attending during in-patient and consult rounds.
- To attend a CCEP out-patient clinic once per week.
- To evaluate all patients undergoing electrophysiologic procedures prior to performing the procedure.
- To design and perform clinical research in CCEP, present the results at national meetings, and write a manuscript of the results of the study.
- To learn the electrophysiology of atrial and ventricular myocardium, sinus node, AV node and His-Purkinje system under normal and diseased conditions.
- To understand the basic pharmacological properties, actions, and toxicity of antiarrhythmic drugs.

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- To understand how the autonomic nervous system, ischemia, electrolyte disturbances, cardiac disease and other conditions affect cardiac electrophysiology and alter pharmacological properties of antiarrhythmic drugs.
- To learn the pathogenesis of the various arrhythmias, related symptom complexes and syndromes, and neurocardiac disease and to understand the technique, application, indications, limitation, sensitivity and specificity of the various non-invasive and invasive diagnostic tests and the indication, limitations and risks of available and experimental pharmacological and non-pharmacological treatments for these disorders.
- To develop a thorough understanding of the indications, limitation, performance, complications, and interpretation of electrophysiological studies.
- To develop a thorough understanding of the indications, limitation, implantation, complications, and follow-up of pacemaker and implantable cardioverter-defibrillator implantation (including biventricular devices).
- To learn the indications for and implantation technique of left atrial occlusion devices for prevention of stroke in patients with atrial fibrillation.
- To understand how to administer moderate sedation and to monitor patients undergoing procedures with sedation in order to insure adequate sedation and safety.
- To gain an advanced understanding of electrocardiography as well as other non-invasive risk stratifying studies such as signal-averaged electrocardiography, T wave alternans testing, heart rate variability analysis, and autonomic testing.
- To acquire skills of arrhythmia management in the ICU setting by actively participating in the care of critically ill patients having recurrent arrhythmias; these skills include appropriate use of anti-arrhythmic drugs, temporary pacing, defibrillation, cardiopulmonary resuscitation, and evaluation and treatment of ischemia-related arrhythmias.

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- To attend all CCEP patient conferences, didactic lectures, and journal club as well as Cardiology and Internal Medicine Grand Rounds and Cardiology Morbidity and Mortality Conference.