

CLINICAL CARDIAC ELECTROPHYSIOLOGY

Department of Medicine

SCOPE OF PRACTICE

PGY-7 & PGY-8

(or PGY-8 & PGY-9 if former Chief Resident)

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 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.
- 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.