HEART FAILURE / ELECTROPHYSIOLOGY

I. Descriptive Information

Title: MED 545-U Heart Failure/Electrophysiology
Department: MEDICINE
Pre-requisite: Credit in MED 532
Duration: 2 or 4 weeks
Number of Students: 1 per location
Locations: Various
Elective Director: Florence Kan, M.D.
Elective Coordinator: Julieta Rajlevsky

II. Objectives & Method

Students will have the opportunity to rotate for 2 weeks on two cardiology sub-specialty services: Advanced Heart Failure and Cardiac Clinical Electrophysiology.

Advanced Heart Failure: Students will be exposed to the principles of advanced heart failure management including but not limited to: the treatment of acute decompensated heart failure, long term outpatient management of heart failure patients, the use of temporary hemodynamic support devices and invasive hemodynamic monitoring, the use of extracorporeal membrane oxygenation (ECMO), and the use of ventricular assist devices. The principles of cardiac transplantation will also be introduced. Areas that will be covered are: the appropriate workup for a patient that may be in need of end stage therapies of heart failure, right heart catheterization for risk stratification of patients with heart failure, and management of patients post-cardiac transplantation and left ventricular assist device placement. Students will be exposed to both inpatient and outpatient settings with respect to heart failure management. They will be expected to round daily with the heart failure team, participate in heart failure clinic, attend catheterization laboratory procedures, and attend educational conferences on a daily basis.

Electrophysiology: Students will be exposed to the principles of ECG analysis, management of supraventricular and ventricular rhythms, and the management of atrial fibrillation. Introduction to analysis of intracardiac electrograms will be addressed over the course of the students' rotation. In addition, students will be taught the indications for pacemaker and ICD implantation as well as the management of these devices following implant. Students will be exposed to electrophysiology in both inpatient in outpatient settings. Inpatient experience will include rounding with the electrophysiology (EP) team on a daily basis, introduction to performing an EP consult and observation of EP procedures including cardiac ablation and device implantation.

Students will not be required to take in-house call for either rotation

III. Evaluation

1. Observational evaluation by the supervising physicians will assess the student's medical knowledge, clinical skills and professionalism.

2. To obtain credit for this elective, students must submit the following evaluation forms on Oasis:
    a. Student Evaluation of Elective
    b. Student Evaluation of Teachers

V. Non-University of Hawaii medical students may be accepted on a space-available basis.