# How to benefit from EP rotation – cardiology residents

Ilan Lashevsky MD Sunnybrook HSC

### Assessment

- Of the resident
- Of the program
- Of the teacher

Structural program for residents doesn't exist

Each site is responsible for hiv

·						
Understands the clinical presentation, natural history & prognosis of the cardiac arrhythmias and conduction disturbances	0	0	0	0	0	0 0 0
Understanding of basic and clinical science of cellular electrophysiology as well as an understanding of the pathophysiology of common electrophysiologic problems	0	0	0	0	0	
Diagosis and management of complex arrhythmias and use of ancillary testing. Knowledge of available pharmacologic and non- pharmacologic approaches to management	0	0	0	0	0	0 0 0
Understanding of indications and techniques for invasive EP testing and appropriate interpretation of results. Basic knowledge of cath-lab based mapping and ablation	0	0	0	0	0	
Programming of single and dual chamber pacemakers and defibrillators. Ability to troubleshoot commonly encountered pacemaker and defibrillator problems	0	0	0	0	0	0 0 0
Is able to determine the mechanism of SVT from ECG recordings and is able to differentiate wide QRS tachycardias from the ECG	0	0	0	0	0	0 0 0
Understands the pathogenesis of cardiac arrhythmias including primary electrophysiology abnormalities and secondary causes of rhythm disturbances	0	0	0	0	0	0 0 0
Knows the causes of syncope. Knows the diagnostic work up & management of patients with syncope	0	0	0	0	0	0 0 0
Knows the pharmacology of anti-arrhythmic drugs						0 0 0
Understands the concept of pro-arrhythmia						000
Knows the immediate management of symptomatic bradyarrhythmias and is able to insert a temporary pacemaker when required	$\circ$	$\circ$	$\circ$	0	0	0 0 0
Understands the mechanisms and long term management of paroxysmal SVT, atrial fibrillation and atrial flutter	0	0	0	0	0	0 0 0
Knows the diagnostic work up and management of patients with VT (non-sustained and sustained) and ventricular fibrillation / cardiac arrest	0	0	0	0	0	0 0 0
Knows the indications for and appropriate followup of pacemakers and anti-tachycardia devices	0	0	0	0	0	0 0 0
Knows the immediate care of atrial fibrillation, SVT, VT and ventricular fibrillation	$\circ$	$\circ$	$\circ$	$\circ$	$\circ$	0 0 0
Management of emergency situations with specific reference to emergency management of arrhythmias	0	0	0		0	0 0 0
Understanding of ancillary testing and procedures such as tilt-table testing , intra-operative mapping	$\circ$		$\circ$		0	0 0 0
Interpretation of 12-lead EKG, Holter monitoring, and exercise stress testing	0	0	0	0	0	0 0 0

## Focused questionairre

	1	2	3	4	5	N/AD/KU/A
Arterial and venous cannulation, femoral	0		0	0		000
Placement of catheters for EPS - CS, His bundle etc				0		0 0 0
Temporary pacing including transvenous (atrial and ventricular), transcutaneous, overdrive and burst pacing	0	0	0	•	0	000
Electrical cardioversion	$\circ$	$\circ$	$\circ$	0	$\bigcirc$	
I. Procedural Training						
Procedural Training During Rotation:						
Number of EKGs interpreted by trainee						
Number of Holter monitors interpreted by trainee						
Number of invasive EP studies attended by trainee						
Number of cardioversions performed by trainee						

#### D. Manager

	Unsatisfactory	Needs Improvement	Meets Expectations	Exceeds Expectations	Outstanding	N/AD/KU/A
	1	2	3	4	5	N/AD/KU/A
Manages time effectively				0		000
Understands and applies cost-effective strategies in assessing and treating patients with arrthymias	0	0	0	•	0	000
Appropriately manages time in seeing patients in the clinic and in consultation in the hospital	$\circ$	$\circ$	$\circ$	•	$\circ$	0 0 0
Allocates health care resources effectively				0		000
Utilizes information technology effectively	0			0	0	000
Works effectively in a health care organization				0		000
Practices evidence-based medicine				0		000

#### E. Health Advocate

	Unsatisfactory	Needs Improvement	Meets Expectations	Exceeds Expectations	Outstanding	N/AD/KU/A
	1	2	3	4	5	N/AD/KU/A
Is attentive to preventive measures				•		0 0 0
Identify and address cardiac risk factors				0		000
Identify and educate patients with inherited arrthymias				0		000
Provide vocational counseling for patients with complex and life- threatening arrthymias	0	0	0	•	0	000
Is attentive to issues of public policy for health				•		0 0 0
Recognizes important social, environmental and biological determinants of health	0	0	0	•	0	0 0 0
Demonstrates concern that patients have access to appropriate supports, information and services	0	0	0	•	0	0 0 0
Offers advocacy on behalf of patients at practice and general population levels	0	0	0	•	0	000

#### F. Scholar

	Unsatisfactory	Needs Improvement	Meets Expectations	Exceeds Expectations	Outstanding	N/AD/KU/A
	1	2	3	4	5	N/AD/KU/A
Attends and contributes to rounds, seminars and other learning events	0	$\circ$	0	0	0	0 0 0
Recognizes gaps in knowledge regarding patient problems and develops strategies to fill the gap through reading and consulting other members of the health care team	0	0	0	•	0	
Accepts and acts on constructive feedback				0		000
Reads around patient cases and takes an evidence-based approach to management problems	0	0	0	0	0	000
Contributes to the education of patients, house staff/students, and other health professionals	$\circ$	$\circ$	0	•	0	0 0 0
Contributes to the development of new knowledge				0		000