

# DEPARTMENT OF CARDIOLOGY

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## **INPATIENT CARDIOLOGY / CONSULT ELECTIVE**

**Course Director: Amgad Makaryus, MD**

**Duration: 4 Weeks**

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### **GOALS**

The Cardiology Consultation Service block is offered as an elective to fourth-year medical students. The purpose of this elective is to provide medical students with basic knowledge in cardiovascular diseases. The medical student will have the opportunity to be involved intimately with the primary evaluation, diagnostic studies, and treatment of the patients. The experience obtained on this rotation will assist in the development of a basic foundation in cardiovascular medicine.

### **OBJECTIVES**

- To gain skills and maturity in clinical cardiology.
- To learn cardiovascular history and physical examination.
- To formulate a diagnostic and therapeutic plan.

### **CLINICAL EXPERIENCE**

Each medical student will be expected to do one consult per day depending on the available caseload. The student will acquire skills and knowledge in providing cardiology consults for patients with known or suspected cardiac disease throughout the hospital on both general medical and non-medical wards (such as the MICU and SICU as well as the general surgical, orthopedic, obstetrical, rehabilitation, and psychiatric services). The consult will be presented to the cardiology consult attending. All cardiovascular diagnostic testing performed on the patient will be reviewed, a discussion of the case will then ensue, and formal recommendations will then be made. The student will be expected to develop basic knowledge in the following areas:

1. Pre-op and post-op management of cardiac patients undergoing non-cardiac surgery.
2. Basic EKG interpretation with emphasis on rhythm, conduction abnormalities, and ischemic/infarct patterns.
3. Heart disease and pregnancy.
4. Non-penetrating cardiac trauma.
5. Aortic dissection.
6. Infective endocarditis.
7. Congestive heart failure.
8. Valvular abnormalities particularly AS.
9. Atrial fibrillation.
10. Cardiovascular involvement in patients with AIDS.

### **DIDACTIC EXPERIENCE**

The medical student will be expected to participate in all departmental lectures and conferences.

### **EVALUATION METHODS**

Faculty will provide oral feedback to the student as cases are being presented and discussed. In addition, an evaluation form will be completed by the attending cardiologist if required by the student's medical/osteopathic school.

## HOW TO APPLY

If you are interested in applying, please call 516-572- 5399 or visit us at [www.numc.edu](http://www.numc.edu).

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### OUTPATIENT CARDIOLOGY/ AMBULATORY CARE CLINIC ELECTIVE

**Course Director: Roman Zeltser, MD**

**Duration: 4 Weeks**

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## GOALS

The ambulatory educational experience will allow the student to participate in the care of patients having a wide spectrum of cardiovascular disorders. In this setting, emphasis is placed on gathering information concerning the patient's past cardiac history and prior cardiac investigations. Utilizing this information, the student will begin to learn how to formulate a diagnostic and therapeutic plan and then arrange for its implementation in an appropriate, cost-effective manner.

## OBJECTIVES

Concepts that the student will be expected to learn include:

1. Cardiovascular risk factor assessment.
2. Pharmacology of anti-anginal medications.
3. Treatment algorithms for hypercholesterolemia and hypertriglyceridemia.
4. Selection of grade exercise testing versus nuclear perfusion imaging techniques.
5. Coronary revascularization options.
6. Indications for and selection of vasodilators, betablockers, diuretics, and digitalis in heart failure.
7. General medical management and timing of surgery in regurgitant and stenotic valve lesions.
8. Selecting the appropriate antihypertensive medications with respect to patient's age, sex, race and comorbid clinical conditions as well as costs.
9. Evaluation of the cardiac patient undergoing noncardiac surgery including indications for nuclear perfusion imaging studies in patients undergoing vascular surgery.
10. Basic understanding of cardiovascular physiology during pregnancy and safety and utility of various drugs during pregnancy to treat maternal heart disease

## EVALUATION METHOD

Faculty will provide oral feedback to the student as cases are being presented and discussed. In addition, an evaluation form will be completed by the attending cardiologist if required by the student's medical/osteopathic school.

## HOW TO APPLY

If you are interested in applying, please call 516-572-5399 or visit us at [www.numc.edu](http://www.numc.edu).

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### COMBINED CARDIOLOGY CONSULT AND AMBULATORY CARE CLINIC

**Course Director: Amgad Makaryus, MD**

**Roman Zeltser, MD**

**Duration: 4 Weeks**

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Please see descriptions for Inpatient Cardiology/Consult and Outpatient Cardiology/ Ambulatory Care Clinic.