



## Department of Internal Medicine

The electives in the Internal Medicine Department are designed to give the fourth-year medical student a longitudinal experience in the outpatient setting. Teaching, supervision, and mentoring are provided by an Internal Medicine faculty clinician with whom the student works closely while being actively involved in patient care.

The Department of Internal Medicine offers a broad range of research topics in preventive health care, medical decision making, ethics, physical diagnosis, health care of minorities, critical literature review, etc. Throughout the year-long elective, the student has the opportunity to evaluate new patients and develop appropriate management and therapeutic approaches for the care of these patients. The student will also participate in follow-up care of patients with chronic illnesses for both new symptoms and for health maintenance and the well-being of these individuals. Additional exposure to topics central to outpatient internal medicine as well as opportunities to refine evidenced-based medicine skills and reflect on the practice of medicine are offered through didactic conferences and other learning activities.

We are pleased to offer exciting electives in the Department of Medicine. A large, public safety net health care organization, like NUMC is complex and complicated. Generally caring for ethnic, poorer patients with a myriad health vulnerabilities, conditions and access barriers, and adding to that, strained institutional resources, the services of busy community services or ambulatory services highlight these efforts by offering electives in the following sub-divisions:

- Cardiology
- Community Medicine
- Endocrinology
- Gastroenterology & Hepatology
- Infectious Diseases
- Nephrology
- Pulmonary
  - Pulmonary Consultation Services
  - Medical ICU
  - Pulmonary Care Unit
- Rheumatology
- Sub-internship

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### CARDIOLOGY CONSULT ELECTIVE

**Course Director: Israel Freeman, 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 both clinical cardiology.
- Learn cardiovascular history and physical examination.
- 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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## CARDIOLOGY AMBULATORY CARE CLINIC ELECTIVE

**Course Director: Rosalind Watman, DO**

**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, beta-blockers, 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 non-cardiac 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

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## COMMUNITY MEDICINE ELECTIVE

**Course Director: Christine Brown, MD**

**Duration: 4 Weeks**

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### GOAL

To provide students with practice-oriented and/or service-oriented learning opportunities related to community medicine. Students will learn about the types and functions of the formal and informal medical, public health, and social support programs involved in community health care.

### OBJECTIVES

1. Focus on health promotion and disease prevention in the community-based setting and as applied to populations of patients.
2. Demonstrate the importance of the physical environment, the social environment, and access to care in determining the health of populations.
3. Enhance students' understanding of the relationship between culture and health, and improve their skills in delivering culturally sensitive health care services.
4. Expose students to the social, financial, and ethical aspects of limiting and promoting access to health care for vulnerable populations.
5. Students should demonstrate an ability to evaluate and manage common acute and chronic ambulatory illnesses in a well-reasoned manner.
6. Students will be able to develop a patient-centered approach to the evaluation and management of patients commonly seen in ambulatory care setting.
7. Students will be able to develop and refine the basic clinical skills of interviewing patients and performing an accurate physical exam.
8. Students will be able to apply the principles of longitudinal and comprehensive health care, including consideration of familial, community, and cultural influences on health behavior.
9. Students will be able to apply the principles of preventive medicine in a primary care setting.
10. Students will develop professional values and attitudes, and apply ethical principles to the physician-patient relationship.

### CLINICAL EXPERIENCE

The medical team comprises of two medical students, which will be "mentored" by a faculty member in the Department of Community Medicine. Each team is assigned at each of four [satellite] Community Health Centers, and one at Nassau University Medical Center's Center for Hypertension, Diabetes and Vascular Medicine, located within the Medical Center, but actively involved in community outreach and linkages to our community health centers and private practitioners. The students will be exposed to and understand the concepts of "primary" and "specialty" care outpatient services, "medical homes," referral patterns, follow-up issues and a host of other items including the challenges of cultural, ethnic and disparities in health care.

## DIDACTIC EXPERIENCE

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

## SUGGESTED READING MATERIAL:

*Community-Oriented Primary Care: Health Care for the 21st Century*, Edited by Robert Rhyne, MD American Public Health Association

## EVALUATION METHOD

Throughout the rotation, there will be clinical observation and feedback by the mentor as well as other faculty members.

At the rotation's end, based upon a patient seen during the month, a brief (10-15 minutes) case presentation, didactic discussion and Q&A will be presented to the student's colleagues and Faculty.

## HOW TO APPLY

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## ENDOCRINOLOGY ELECTIVE

**Course Director: Salini Kumar, MD**

**Duration: 4 Weeks**

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## GOALS

During the four weeks of the elective, medical students will become familiar with the pathophysiology, diagnosis, and management of endocrine disorders. In order to achieve this goal they must:

- Achieve basic knowledge of the normal physiology of the endocrine glands.
- Become facile in obtaining a history specific to endocrine and metabolic disorders.
- Learn to perform a physical examination with particular attention to the multi-system manifestations of endocrine diseases.
- Develop the ability to form a comprehensive endocrinologic differential diagnosis.
- Appreciate how to plan a logical, cost-effective work-up of patients with specific endocrinologic disorders.
- Learn to interpret common endocrine laboratory tests and hormone measurements.
- Have specific understanding of the long-term management of patients with diabetes mellitus, thyroid disease, osteoporosis, and lipid disorders.

## OBJECTIVES

During the elective, students will acquire in-depth skills and knowledge by:

- Performing endocrinology consultations supervised by the endocrinology fellow and endocrinology attending.
- Making formal consultations rounds five days per week.

- Attending the general endocrinology clinic weekly, the diabetes clinic at least once weekly, and the monthly metabolic bone and hyperlipidemia clinics.
- Attending and participating in the weekly endocrine division conferences, which include endocrine grand rounds, journal club, and nuclear medicine conference, and attending Department of Medicine grand rounds.
- Observing the performance of fine-needle thyroid aspiration and thyroid ultrasound examinations at the thyroid biopsy clinic.
- Reading general endocrinology with specific attention to the disorders affecting the patients they are assigned and presenting a subject review during consultation rounds.
- Learning about Diabetes mellitus type 1 and 2, Thyroid Disease, Disorders of Calcium Metabolism, Metabolic Bone Disease, Endocrine Hypertension and Lipid Disorders.

## SUGGESTED READING MATERIAL

*Harrison's Principles of Internal Medicine* by Eugene Braunwald, Anthony S. Fauci, Dennis L. Kasper, Stephen L. Hauser, J. Larry Jameson, Richard M. Stone.

*Cecil's Textbook of Medicine* by Lee Goldman, Dennis Arthur Ausiello, William Arend, and James O. Armitage.

*Williams Textbook of Endocrinology* by Henry M. Kroneberg & al.

## CLINICAL EXPERIENCE

Through clinical experience, students will learn the rudiments of:

- Cortrosyn (rapid ACTH) test
- Dexamethasone suppression test
- Bone densitometry tests (DXA)
- Hormonal responses to stress and hypoglycemia
- Different modalities of thyroid gland imaging
- The use of dynamic hormone testing and when imaging is indicated

## DIDACTIC EXPERIENCE

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

## EVALUATION METHODS

- Clinical observation by attending physicians
- Evaluation by endocrine fellows
- Participation in rounds and conferences

## HOW TO APPLY

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## **GASTROENTEROLOGY & HEPATOLOGY ELECTIVE**

**Course Director: Paul Mustacchia, MD**

**Duration: 4 Weeks**

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### **GOALS**

The goals of the elective rotation are to provide the student with an introductory inpatient and outpatient consultative experience; and to introduce them to the management of gastrointestinal and liver disorders. Additionally, students will be trained to competently evaluate, manage, and follow common gastroenterologic illnesses.

### **OBJECTIVES**

The objectives of the Gastroenterology elective are to expose medical students to:

- Basic pathophysiology of gastrointestinal diseases.
- Recognized common diseases of the tubular gut, gallbladder, pancreas, and liver along with appropriate diagnostic and therapeutic plans.

Every patient evaluated by a student in either the clinic setting or the inpatient consult setting will be examined and reviewed in detail with the attending physician. At a minimum, this review will include discussion of the history and physical examination findings, differential diagnosis, and diagnostic and therapeutic management plans.

### **CLINICAL EXPERIENCE**

Clinical experience will include co-management of patients with a wide variety of digestive and liver disorders, in both the inpatient and outpatient settings. There will be an emphasis on the pathophysiology, clinical manifestations, and treatment of gastrointestinal disorders. Additionally the medical students will observe endoscopy performed by the gastroenterologists to gain knowledge of the appearance of normal gastroenterologic anatomy and the appearance of pathology.

The medical students will demonstrate understanding of diagnosis, treatment, and long-term management of the following GI diseases:

1. hepatitis, including evaluating abnormal liver function tests
2. pancreatitis
3. peptic ulcer disease and nonulcer dyspepsia
4. colon cancer
5. cholelithiasis, cholecystitis
6. irritable bowel syndrome
7. inflammatory bowel disease
8. ascites and its evaluation
9. GERD
10. GI bleeding
11. hepatic cirrhosis

### **DIDACTIC EXPERIENCE**

- Students are expected to attend all regularly scheduled program conferences, including morning report, core conference, journal club, morbidity and mortality conference, and pathology conference.
- Selected clinical review literature in gastroenterology and hepatology is presented to the student for reading and discussion.
- The student will also observe endoscopic procedures including diagnostic and therapeutic EGD and colonoscopy. The student can also arrange to observe mortality studies, endoscopic ultrasound, ERCP, stent placement and other advanced GI procedures.

### **OBJECTIVES**

During their rotation, medical students will work with Internal Medicine residents to become familiar with the pathogenesis, diagnosis, and treatment of a wide variety of infectious diseases. They will always be supervised by an Infectious Disease attending on the consult service. The course objectives include:

1. Obtain an accurate and thorough history from the patient, patient's family, and available records.
2. Perform a complete and accurate physical examination.
3. Being able to recognize dermatological manifestations of different infectious diseases.
4. Evaluate lab and diagnostic radiographic studies in patients with infections.
5. Develop a differential diagnosis, recognizing which illnesses are most likely to be causing the specific problem.
6. Discuss appropriate antibiotic options, if indicated, including calculation and adjustment of dosage of antibiotic therapy in patients with renal compromise.
7. Interpret levels of antibiotics.

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## **INFECTIOUS DISEASES ELECTIVE**

**Course Director: Shadab Ahmed, MD**

**Duration: 4 Weeks**

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### **CLINICAL EXPERIENCE**

Principles of host defense, microbial pathogenicity, prevention of infection, diagnosis of infection, and antimicrobial therapy are covered. Students are an integral part of the consulting team for patients with infectious disease problems. They prepare consult notes and participate in rounds, conferences, and seminars. Special sessions in the Infectious Diseases and Aids Clinic, the Venereal Disease Clinic, and the clinical microbiology laboratory are provided. Small group seminars are held with the faculty on major topics. In addition, a tour of the microbiology laboratory will introduce students to relevant diagnostic tests and their interpretation.

## **DIDACTIC EXPERIENCE**

In addition to daily teaching rounds, students attend the following conferences:

**Journal Club Case Presentations.** Twice a month, the Infectious Diseases attendings, HIV scholars, and residents/medical students critically review current journal articles. All members of the Infectious Disease team are given copies of the articles prior to the meeting to encourage discussion.

**Medical Grand Rounds** are held on Thursday mornings; usually a guest speaker presents a lecture. The speakers are selected for their ability as lecturers and the topics are chosen so as to cover a variety of important subjects in Infectious Diseases over the course of the year (3–4 times a year).

**Morning reports.** As needed.

**Mortality and Morbidity** conferences are held about 3–4 times per year when infectious diseases cases are presented.

An HIV Primary Care Conference is held every Thursday morning with both hospital and community consultants.

## **SUGGESTED READING MATERIAL**

Mandell, Douglas and Bennett's *Principles and Practices of Infectious Diseases*; 6th edition

## **EVALUATION METHOD**

100% clinical observation and case presentations.

## **HOW TO APPLY**

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The medical student joins the renal consult team. The student will be expected to see patients on his/her own under the guidance of the renal fellow. The case will then be presented to the renal attending who together with the student will speak with and examine the patient, review the laboratory work and radiological tests as necessary, and then review the case with the student and fellow and any medical resident on the service. The student will also attend the renal and peritoneal dialysis clinics and see patients in conjunction with one of the fellows. The case will then be presented to and seen by the attending and discussed with the student and fellow.

## **DIDACTIC EXPERIENCE**

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

Topics or articles may be assigned to students for presentation.

## **EVALUATION METHOD**

100% clinical observation.

## **HOW TO APPLY**

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## **NEPHROLOGY ELECTIVE**

**Division Chief: Leah Balsam, MD**

**Duration: 4 Weeks**

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## **GOALS**

Students will understand the fundamentals related to acute, chronic, and end-stage renal disease (ESRD), including hemodialysis, peritoneal dialysis, and renal transplantation. In addition they will be expected to learn about glomerular and tubulo-interstitial diseases, acid-base and electrolyte abnormalities, and hypertension.

## **OBJECTIVES**

The medical student will develop knowledge in the diagnosis and management of inpatient and out-patient nephrologic conditions. Patients will be evaluated on the medical, surgical, and (occasionally) obstetric floors. Patients will be also evaluated on the medical and surgical, and (occasionally) patient ICUs, as well as telemetry and PCU. In addition to general consults, the medical student will be exposed to acute hemodialysis and peritoneal dialysis in these settings.



# Pulmonary Outpatient and Consultation Services

Consultation Services is designed to allow the medical student to participate in outpatient and inpatient consultations, under the auspices of a medical resident and pulmonary staff physician. The medical student will perform outpatient clinic evaluations and inpatient consultation evaluations and will interpret pulmonary function testing. He/she will also observe fiberoptic bronchoscopes and other special procedures when appropriate. He/she will perform history and physical examinations and write-ups and discuss appropriate plans for patient care. The medical student will also participate in the Department of Medicine weekly conferences and all Pulmonary subspecialty conferences.

The program offers two pathways, one focused on clinical training and research, and the other on clinical training and basic, bench-top research. Students rotating at NUMC provide primary and consultative care for patients with a wide range of pulmonary disorders under the direct supervision of a pulmonologist. There will be exposure to the Medical Intensive Care Unit, Pulmonary Care Unit, and general hospital pulmonary consultations and procedures. The following description is a general guideline for the elective. If you have any questions about our programs, please contact us. We will be happy to assist you.

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## MEDICAL INTENSIVE CARE UNIT (MICU) ELECTIVE

**Course Director: Javed Iqbal, MD, MPH, FCCP**

**Duration: 4 Weeks**

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### GOALS

The goals of the MICU elective is to provide medical students with a suitable background in critical care medicine and outpatient settings.

### OBJECTIVES

Medical students are expected to learn:

- Critical care physiology
- Principles of managing respiratory failure
- Basic as well as advanced modes of mechanical ventilation
- Principles of managing various shocks; septic, cardiac, neurogenic, etc.
- Acid-base disorders and its clinical application
- Manage fluid and electrolyte abnormalities
- Basics of nutrition supplementation in critical care units
- Managing neurological disorders

### EXPERIENCE

The experience and knowledge gained during this elective should provide medical students with the background to perform an initial evaluation in the treatment of critically ill patients.

### DIDACTICS EXPERIENCE

The student will participate in didactic sessions including grand rounds, journal clubs, and lectures.

**EVALUATION METHODS:** Clinical observation will be completed mainly by the course director.

### 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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## PULMONARY CONSULTATION SERVICE ELECTIVE

**Course Director: Ashok Karnik, MD, FACP, FCCP, FRCP**

**Duration: 4 Weeks**

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### GOALS

To acquire knowledge and have clinical experience with a broad range of pulmonary problems in an inpatient setting, including obstructive lung diseases, pulmonary infections, occupational and environmental lung disease, acute and chronic respiratory failure, and genetic disorders of the respiratory system.

### OBJECTIVES

The Pulmonary elective rotation provides students with the opportunity to acquire knowledge of, and to have a clinical experience, with a broad range of pulmonary problems in inpatient and outpatient settings.

To acquire knowledge of and to have a clinical experience with a broad range of pulmonary problems in inpatient and outpatient settings, including obstructive lung diseases, pulmonary infections, diffuse interstitial lung disease, pulmonary vascular disease, occupational and environmental lung disease, iatrogenic lung diseases, pulmonary manifestations of systemic diseases, acute and chronic respiratory failure, disorders of the pleura and mediastinum, and genetic disorders of the respiratory system.

### CLINICAL EXPERIENCE

Medical students will:

- Learn outpatient consultation and management of a wide range of pulmonary problems.
- Learn inpatient management and care of the pul-

monary complications of surgery and postoperative respiratory failure.

- Acquire knowledge of and competence in the use of oxygen therapy, CPAP, mechanical ventilators, weaning and respiratory care techniques, management of pneumothorax, interpretation of sputum samples, BAL samples, pleural fluid, and lung tissue.
- Learn and develop proficiency in interpreting the indications, contraindications, complications and limitations of pulmonary functions tests, including spirometry, flow volume loops, lung volumes, diffusing capacity, and methacholine challenge studies.
- Learn the indications, contraindications, complications and limitations of fiberoptic bronchoscopy, including lavage and biopsy.
- Gain exposure and experience respiratory care techniques and services, including respiratory physical therapy.

Attending physicians who are board-certified in pulmonary disease, directly supervise senior resident, one or two medical students, and physician assistants.

Consultation services are provided to medical or surgical patients with a full range of mild to severe problems. Examples include asthma, chronic obstructive pulmonary disease, cough, pneumonia, tuberculosis and other infections, pre-operative evaluations, evaluations for dyspnea, infections in immunocompromised hosts, hemoptysis, drug-induced lung disease, pulmonary vascular disease, interstitial lung disease, lung cancer, cystic fibrosis and pulmonary manifestations of systemic diseases. In addition, consultation and management of mechanical ventilation, including the use of non-invasive ventilation, and weaning and respiratory care techniques will be provided by the service.

Clinical encounters include: emergency room evaluation at the time of admission or upon request, full history and physical examination at the time of consultation or clinic visit, and daily work rounds for inpatients.

Procedures most frequently performed by the attending physician assistants during this rotation include: fiberoptic bronchoscopy and related procedures, pulmonary function testing and interpretation, thoracentesis, and pleural biopsy.

During this rotation the student will also acquire knowledge of, and the ability to interpret, imaging studies, including chest x-rays, thoracic CT scans, including CT angiograms, and radionuclide studies, particularly ventilation-perfusion scans.

Nassau University Medical Center has a full range of services available for participation in patient care including a full mix of surgical, anesthesia, and medical subspecialty consultation. NUMC also has a full pulmonary diagnostic laboratory for pulmonary function testing and full radiologic imaging services.

## SAMPLE SCHEDULE

Time	MONDAY
8:00-9:30	Pre-rounding and new consultations with PA
9:30-10:30	Procedures if any scheduled
10:30-12:00	Attending rounds
12:00-1:30	Lunch teaching conference / Dept of Medicine
1:30-3:00	Asthma Clinic
3:00-5:00	New consults, PFT interpretation, rounds
TUESDAY	
8:00-9:30	Pre-rounding and new consultations
9:30-10:30	Procedures if any scheduled
10:30-12:00	Attending rounds
12:00-1:00	IM Conference
1:00-5:00	New Consults, PFT Interpretation, Rounds
WEDNESDAY	
8:00-9:30	Pre-rounding and new consultations
9:30-10:30	Procedures if any scheduled
10:30-12:00	Attending rounds
12:00-1:30	Lunch teaching conference / IM
1:30-3:00	Attending teaching rounds
3:00-5:00	New consults, PFT interpretation, rounds
THURSDAY	
8:00-9:30	Pre-rounding and new consultations
9:30-10:30	Grand rounds - Amphitheater
10:30-12:00	Attending rounds
12:00-1:00	Pulmonary conference, 3rd Floor conference room
1:00-5:00	New consults, PFT Interpretation, Rounds
FRIDAY	
8:00-9:00	Pre-rounding and new consultations
9:00-12:00	Pulmonary Clinic area 3 – ground floor
12:00-1:30	Lunch teaching conference (IM)
2:00-3:00	Attending teaching rounds
3:00-5:30	New consults, PFT Interpretation, Rounds

## DIDACTIC EXPERIENCE

Formal teaching conferences occur every Thursday between 12:00-1:00 p.m.; at which topics pertinent to Pulmonary Medicine are discussed, student and resident are assigned journal articles, as well as cases for presentation and discussion. In addition, there are informal teaching conferences where pulmonary function tests, exercise tests, or problems pertinent to the patients being currently seen are discussed on daily basis. Rounds with all members of the team occur at least once daily on all consultation follow-ups and patients on mechanical ventilator on the primary service.



## EVALUATION METHODS

Clinical observation will be completed mainly by course director.

## HOW TO APPLY

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## PULMONARY CARE UNIT (PCU) ELECTIVE

**Duration: 4 Weeks**

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### GOALS

The general goal for medical students on this rotation is to have patient care responsibility for inpatients with a wide variety of pulmonary disease with an educational emphasis on pulmonary physiology and its correlation with clinical disorders. Medical students will develop skills in rounding and communicating with primary care physicians, other members of the health care team, and patient family members, under the supervision of an attending physician.

### EDUCATIONAL OBJECTIVES

Students in the pulmonary care elective will develop an understanding of:

- The weaning process from ventilator support.
- Advance directives and end-of-life care issues.
- Quality care measures, including the prevention of blood stream infections, pressure ulcers, and ventilator-associated pneumonia.

### CLINICAL EXPERIENCE

The clinical experience provided by the department includes:

- Daily pre-rounds with residents.
- Daily teaching rounds with the attending.
- Following assigned patients and writing progress notes.
- Assisting procedures.

### EVALUATION METHODS

At the end of the rotation, students are evaluated in writing. An exit interview provides feedback to the student and solicits feedback regarding the student's experience in the elective rotation.

## DIDACTIC EXPERIENCE

Didactic experience includes:

- Daily medicine morning report.
- Daily medicine noon conference.
- Weekly pulmonary lectures and journal club.

## RECOMMENDED READING

*The Washington Manual: Pulmonary Medicine Subspecialty Consult.*

Online resources:

[www.thoracic.org/copd/](http://www.thoracic.org/copd/) is an excellent online resource for practice guidelines, treatment algorithms, pharmacology and consensus statements

- [www.chestnet.org](http://www.chestnet.org). Go to educational resources.
- [www.uptodate.com](http://www.uptodate.com)
- [www.harrisonsonline.com](http://www.harrisonsonline.com)
- [www.cancer.gov](http://www.cancer.gov) for cancer of the lungs and the most up-to-date treatment modalities.

Additionally, the Pulmonary Division has a small library in the Pulmonary Conference Room, 3rd floor of B Building. A computer providing direct access to literature searches is also located in the Conference Room.

## 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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## RHEUMATOLOGY ELECTIVE

**Course Director: Prachi Anand, MD, FACP**

**Duration: 4 Weeks**

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The Winthrop-University Hospital and Nassau University Medical Center (WUH-NUMC) integrated Rheumatology Fellowship strives to produce exceedingly well-trained consultants in rheumatic and immunological disorders. The wide spectrum of pathology seen at NUMC and our affiliate hospitals serve as a foundation for our clinical educational curriculum. Our didactic basic and clinical science along with research program enhances the clinical curriculum by emphasizing the pathophysiology and immunology of rheumatic diseases and by encouraging creative approaches to the diagnosis and therapy of rheumatic disorders.

### GOALS

- Familiarize trainees with the management of common problems in rheumatology
- Improve their proficiency in the performance of selected diagnostic and therapeutic interventional techniques commonly performed in the practice of general medicine
- Increase medical students' and residents' confidence and ability to educate and manage patients with rheumatic diseases



## OBJECTIVES

- Enhance history taking and physical examination skills
- Increase understanding of the use of the laboratory in the diagnosis and follow-up of patients with rheumatic disease
- Develop an approach to initial management of patients with rheumatic disease

## CLINICAL EXPERIENCE

Medical students will be able to perform a detailed physical examination of the joints and musculoskeletal system as well as interpret laboratory tests diagnostic of rheumatologic disease in the context of the clinical findings.

Typical daily activities:

1. Monday: Grand rounds at Winthrop- University Hospital at 8:30 a.m. Afternoon rounds at NUMC.
2. Tuesday: Arthritis clinic at 8:30 a.m. to 12:30 p.m. Afternoon rounds.
3. Wednesday: Lupus clinic at 9:00 a.m. to noon. Afternoon rounds.
4. Thursday: Medical Grand Rounds 10:00 a.m to 11:00 a.m. Afternoon rounds.
5. Friday: Morning clinic at WUH. Afternoon rounds.

## RECOMMENDED READING MATERIALS

*Primer on Rheumatic Diseases:* John H. Klippel, John H. Stone, Leslie J. Crofford, and Cornelia Weyand.

## DIDACTIC EXPERIENCE

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

## HOW TO APPLY

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## SUB-INTERNSHIP IN INTERNAL MEDICINE

**Course Director: Deepti Gupta, MD**

**Duration: 4 Weeks**

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## GOALS

The educational goals of the Acting Internship in Internal Medicine are to provide fourth year medical students with advanced clinical and cognitive abilities required for problem solving and decision-making in clinical medicine. These goals are to be accomplished with supervised clinical experiences in the inpatient setting and with critical reading.

## OBJECTIVES

Students gain broader experience and knowledge in clinical medicine and be able to:

- Obtain patients' history and with emphasis on behavioral, psychosocial and environmental aspects of the disease as well as the medical illness.
- Demonstrate proficiency in advanced physical diagnosis including but not limited to assessment of the febrile patient, change in mental status and fluid balance.
- Analyze the data and develop a problem list with an appropriate differential diagnosis for every problem.
- Request and interpret problem-specific and cost-effective diagnostic tests.
- Present data concisely in both the verbal and written format.

Acting interns have responsibilities similar to those of first year postgraduate (PGY-1) internal medicine residents. The student is assigned to a floor Medical Team or the Medical/Cardiac Intensive Care Team. The team will consist of a faculty attending, residents and third year medical students. Although the goals and objectives remain the same, the approach to achieving these goals vary as follows:

- Obtain history, physical and laboratory studies on hospital admissions using the problem-oriented record. This is done under the supervision of a senior resident and attending.
- Outline the diagnostic and therapeutic plans for patients worked up in the hospital or ambulatory settings.
- Present patients to the senior resident and faculty and obtain a copy of discharge summaries on respective patients.
- Generate patients' encounter at morning reports and/or conference rounds.
- Basic knowledge of clinical information pertinent to proper diagnosis and treatment.

## EVALUATION

Throughout the rotation, there will be clinical observation and feedback by the Mentor as well as other Faculty Members.

## DIDACTIC EXPERIENCE

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

## 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).