

ROCHESTER
REGIONAL **HEALTH** | **Medical Education**

Elective Rotation Catalog 2023-2024

ROCHESTER
REGIONAL **HEALTH** | **MEDICAL EDUCATION OFFICE**
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How to Request and Schedule Electives

Please visit our website at <https://Education.RochesterRegional.org/Office> to fill out our Rotation Request Form with your preferred electives and email your request to GraduateMedical.Education@rochesterregional.org. Do this as early as possible as they fill up quickly!

***Please note that you can fill out your top two elective choices on our rotation request form. If you are interested in additional electives, you can submit another request form after you have been notified that your first request has been reviewed and/or confirmed.**

RRH Elective/Selective Offering List

Name	Code	Location(s)	Prerequisite
Addiction Medicine	EI	Clinton Family Health Center	None
Allergy, Immunology or Rheumatology	EI, MS, SrCap	Rochester Outpatient Sites	None
Anesthesiology	EI, SS	Canton Potsdam and Leroy Outpatient Center	IM Core
Anesthesiology	EL, SS	Rochester General Hospital	None
Cardiology	EI, MS	Upstate Cardiology, Batavia	IM Core
Cardiology	EI, MS	Rochester General Hospital	IM Core
Clinical Informatics	EI	Rochester General Hospital and Unity Hospital	None
Dentistry & Oral and Maxillofacial Surgery	EI	Riedman Health Center	None
Dermatology	EI, SS, MS	Rochester and Batavia Outpatient Sites	None
Diagnostic Radiology and Pathology	EI, SS, MS	Rochester General Hospital and Labs	IM Core
Diagnostic Radiology Elective	EI, SS, MS	Rochester General Hospital	None
Diagnostic Radiology Sub-I	EI, SS, MS	Rochester General Hospital	None
Endocrinology	EI, MS	Canton-Potsdam Hospital	4th year only
Endocrinology	EI, MS	Rochester and Clifton Springs Outpatient Sites	4th year only
Endocrinology, Diabetes, Metabolism	EI, MS	Alexander Park, Rochester	None
Family Medicine – Outpatient	EI, PCS	Canisteo Valley Family Practice	None
Family Medicine – Outpatient	EI, PCS	Family Medicine of Alfred	None
Hematology	EI, MS	Rochester General Hospital	IM Core
Infectious Disease	EI, MS	Rochester General Hospital	IM Core
Infectious Disease	EI, MS	Unity Hospital and Outpatient Clinics	4th year only
Integrative Eye Care	EI, SrCap	Reed Eye Associates Irondequoit and Pittsford, Westfall Surgery Center	None
Internal Medicine – Outpatient	EI, PCS	Reidman Health Center - Outpatient Department	4th year only
Internal Medicine – Outpatient	EI, PCS	Unity Faculty Partners	4th year only
Internal Medicine/Nephrology	EI, MS	Massena Hospital	None
Interventional Radiology Elective	EI, SS	Rochester General Hospital	None
Interventional Radiology Sub-I	EI, SS	Rochester General Hospital	4th year only & must be interested in radiology residency
Intro to Hospitalist	EI, PCS, MS	Clifton Springs Hospital	4th year only

Lifestyle Medicine	EI, PCS	Family and Lifestyle Medicine at Canandaigua	IM Core
Nephrology	EI, MS	Rochester General Hospital	4th year only
Neurology	EI, MS	Rochester General Hospital and Unity Hospital	None
Observation Medicine	EI, MS	Rochester General Hospital	4th year only
Oncology	EI, MS	Rochester General Hospital	IM Core
Orthopedics	EI, SS	Ambulatory, United Memorial Medical Center	Gen Surg
Osteopathic Primary Care, Lifestyle	EI, PCS	Family and Lifestyle Medicine at Canandaigua	4th year only
Physical Medicine & Rehabilitation	EI, MS	Unity Hospital	None
Plastic Surgery	EI, SS	Rochester General Hospital	Gen Surg
Podiatric Medicine & Surgery	EI, SS	Rochester General Hospital	1 month of Surg or IM
Preventative Medicine	EI	WorkReady - Culver Road	None
Psychiatry Sub-I	EI	St. Mary's/Unity Specialty	4th year only & must be interested in psychiatry residency
Pulmonary Disease and Critical Care Medicine	EI, MS	RGH	None
Quality and Safety	EI	Rochester General Hospital & Unity Hospital	None
Radiation Oncology	EI	Rochester General Hospital, Unity, Linden Oaks	IM Core
Rheumatology	EI, MS	Canton Potsdam Hospital	None
Urgent Care	EI, PCS	St. Mary's Campus	4th year only
Urgent Care	EI, PCS	Rochester Wilson	4th year only

Addiction Medicine – Clinton Family Health**Location:**

Clinton Family Health Center
293 Upper Falls Blvd
Rochester, NY 14605
Office Phone: [\(585\) 922-0200](tel:5859220200)

Description:

This is a hybrid experience at an outpatient family medicine health center with an integrated addiction medicine practice, with a predominantly underserved population. Students will spend 50-75% of their time focusing on addiction medicine – including buprenorphine and naltrexone visits for Opioid Use Disorder (OUD) and other use disorders, withdrawal management, and relapse prevention – and the remainder performing routine ambulatory care and screening for use disorder.

Preferences:

Due to the large number of Spanish-only speaking patients in the practice, a preference is given to students that speak Spanish. Students are recommended to complete the online 8-hour Buprenorphine Waiver training to facilitate learning – clinical time during the elective can be allotted for this.

Locations:

222 Alexander Street, Suite 3000
Rochester, NY 14607

2300 West Ridge Road, Suite 5000
Rochester, NY 14626

10 Hagen Drive, Suite 30
Rochester NY 14625

Description:

The **allergy and clinical immunology** elective exposes students to this outpatient specialty, which manages both pediatric and adult patients. In addition to common allergic conditions (asthma, allergic rhinitis, food allergy, drug allergy, urticaria, etc), students will also see less common diagnoses (common variable immunodeficiency, hereditary angioedema, etc). The goal of the elective is to show how allergy and clinical immunology interfaces with other medical specialties and primary care medicine.

Goals of the rotation:

1. Be able to recognize and correctly diagnose common atopic conditions.
2. Understand the role of appropriate testing modalities, understanding the limitations of each.
3. Initiate appropriate management of common atopic conditions, including immunotherapy.
4. Raise awareness of emerging therapies for common atopic conditions.

Description:

The **rheumatology** elective exposes students to this outpatient specialty, which manages systemic inflammatory conditions. Students will learn how to take a detailed history, initiate an appropriate evaluation, and consider various treatment options.

Goals of the rotation:

1. Be able to recognize and correctly diagnose common rheumatologic conditions.
2. Understand the role of appropriate testing modalities, understanding the limitations of each.
3. Initiate appropriate management of common rheumatologic conditions.

Each elective will have two weeks of clinical time, and students can choose either allergy/immunology or rheumatology, and in certain cases, can elect to do both consecutively.
procedures.

Anesthesiology – Canton Potsdam Hospital and Leroy Outpatient Center

Description:

During your Anesthesiology rotation you will be working with both Anesthesiologists and Certified Registered Nurse Anesthetists in the operating rooms at Canton Potsdam Hospital and in the procedure rooms at the Leroy Outpatient Center. You will assist in providing general anesthesia, neuraxial anesthesia and monitored anesthesia care to a wide variety of patients. You will be an active participant in their care and will have the opportunity to practice important life-saving skills including:

- Mask ventilation
- Oral and nasal airway placement
- Intravenous catheter placement
- Laryngeal mask airway placement
- Endotracheal intubation

You may also have the opportunity to perform or assist with advanced skills such as:

- Arterial line placement
- Epidural catheter and spinal placement

You will develop basic interpretive skills in the following:

- Capnography
- Basic cardiac monitoring
- Pulse oximetry

Goals of Rotation:

- Upon completion of the Anesthesia Clerkship Rotation, third year medical students will understand the implications of pre-existing disease for patients undergoing anesthesia. They will demonstrate competency in basic airway management and acute resuscitation, and will be able to discuss pain management in the perioperative period.
- The skills that you will acquire during the rotation in anesthesiology are broadly applicable to a wide variety of fields and are particularly useful in rapid response and code situations.
- As a medical student you are encouraged to be an active participant in your patients' anesthesia care from start to finish—from conducting the preoperative evaluation prior to induction, to performing procedures during and after induction, to signing out to the PACU after emergence.

Anesthesiology – Rochester General Hospital

Description:

Anesthesiology is a specialty of medicine, which provides care to patients undergoing procedures and operations. There are multiple subspecialties in Anesthesiology: Cardiac, Critical Care, Pediatric, Obstetrical, Acute Pain Management, and Chronic Pain Management.

During your rotation, you will be working with an Anesthesiologist and/or a Certified Registered Nurse Anesthetist at Rochester General Hospital. You will assist in providing general anesthesia, neuraxial anesthesia and monitored anesthesia care to a wide variety of patients. You will be an active participant their care and will have the opportunity to perform life-saving skills including:

- Mask ventilation
- Oral and nasal airway placement
- Intravenous catheter placement
- Laryngeal mask airway placement
- Endotracheal intubation
- You may also have an opportunity to perform or assist with advanced skills such as:
- Arterial line placement
- Epidural catheter and spinal placement

You will develop basic interpretive skills in the following:

- Capnography
- Pulse oximetry
- Cardiac monitoring

As a student during this rotation you will be asked to be an active participant in your patients' anesthetic care from performing preoperative evaluations to performing intraoperative procedures to evaluating patients for discharge from the PACU.

Goals of Rotation:

Upon completion of the clerkship, third year medical students will understand the implications of preexisting disease for patients undergoing anesthesia. They will demonstrate competency in basic airway management and acute resuscitation, and will be able to discuss pain management in the acute perioperative period. These skills can be broadly applied to a wide variety of fields and are particularly useful in rapid response and code situation.

Cardiology – Upstate Cardiology, Batavia, NY**Location:**

Upstate Cardiology
215 Summit Street, Batavia, NY 14020
585-343-3205

Description:

Students will experience seeing cardiology patients in an outpatient setting with cardiac follow up visits, after hospitalization follow up visits, cardiac monitoring, after visit summary and continuance of care plans.

Cardiology – Rochester General Hospital

Curriculum:

4 weeks of inpatient cardiology consults. Optional: Interested students may request to spend the second 2 weeks of their rotation on CCU/CHF subspecialty service

Student Responsibilities:

Administrative:

- Read this curriculum prior to the start of the rotation and review with your attending
- Review your performance with the preceptor at the end of each week
- Notify your attending and/or fellow of any days you will be late or absent due to other responsibilities

Typical Schedule:

- Rotation hours:
 - Monday – Friday, 8 am to 4 pm
 - Be present for sign out at 8 am and 1 pm Monday-Friday
 - Sign out is in the Film room, on the second floor beyond the cath and EP labs
- Cardiology conferences 7am-8am in the SCHI conference room
 - Monday and Wednesday lectures are required
 - Thursday didactic lectures and Grand Rounds are required; Thursday M&M and QA conferences are not required
 - Friday JCC conferences are optional
 - Conference schedule can be found on the intranet: <https://intranet.rochesterregional.org/Cardiology/Pages/Calendar.aspx>

Student Supervision:

Students under the direct supervision of the attending physician and/or cardiology fellow, or indirect supervision with direct supervision immediately available

Mix of Disease, Patients and Clinical Setting:

Patient Characteristics/Types of Clinical Encounters

Students will see hospitalized adult patients of both sexes with cardiovascular disease or symptoms of cardiovascular disease

Common clinical problems expected on the service:

- Acute Coronary Syndrome
- Chest pain
- Heart failure
- Arrhythmias
- Valvular Disorders
- Pericardial disease
- Aortic disease

- Preoperative evaluation

Suggested Reading:

NEJM 360 Cardiology

ACC/AHA Guidelines – all can be found online

Clinical Informatics – Rochester General Hospital and Unity Hospital

Description:

American Medical Informatics Association (AMIA) defines Clinical Informaticians as “those who transform health care by analyzing, designing, implementing, and evaluating information and communication systems that enhance individual and population health outcomes, improve patient care, and strengthen the clinician-patient relationship.”

The Health Informatics Department at RRH is a multidisciplinary team of physicians, nurses, allied health professionals, and IT informaticians who work together to implement state-of-the-art technology and play a key role in the provision of high-quality healthcare. The Fellowship training in Clinical Informatics is a 2-year ACGME-accredited program designed for physicians to equip them with knowledge and skills to lead the modernization of healthcare.

Curriculum:

- Available for 3rd and 4th year medical students
- Rotation length is 4 weeks

Goals and Objectives:

Rotation is designed to give an introduction and exposure to the different domains of informatics and their practical implications. That includes the structure and history of health and biomedical informatics, clinical decision support, workflow analysis and redesign, healthcare analytics, Electronic Health Records (EHR) User-Centered Design, Patient Engagement, EHR training and user-proficiency, Healthcare Technology Implementation, and Change Management. Students will also have the opportunity to work on a project with the guidance of a mentor to understand how Clinical Informaticians use their skills to bridge the technology and clinical practice and play their role in healthcare delivery and quality.

Dentistry & Oral and Maxillofacial Surgery – Riedman Health, Rochester, NY

Location:

Pluta Dental Center – Riedman Health Center 1455 East Ridge Road, Rochester, NY 14621

Description:

Dentistry is defined as the evaluation, diagnosis, prevention and/or treatment (nonsurgical, surgical or related procedures) of diseases, disorders and/or conditions of the oral cavity, maxillofacial area and/or the adjacent and associated structures and their impact on the human body; provided by a dentist, within the scope of his/her education, training and experience, in accordance with the ethics of the profession and applicable law. (As adopted by the 1997 ADA House of Delegates)

Oral and Maxillofacial Surgery is the specialty of dentistry which includes the diagnosis, surgical and adjunctive treatment of diseases, injuries and defects involving both the functional and esthetic aspects of the hard and soft tissues of the oral and maxillofacial region

For more information, visit the American Dental Association website: www.ADA.org

Curriculum:

General Dentistry rotation: 2 weeks

Oral & Maxillofacial Surgery rotation: 2 weeks

Goals and Objectives:

- Demonstrate general understanding of the clinical evaluation of oral and maxillofacial region.
- Demonstrate understanding of the conditions treated by general dentists and oral surgeons in outpatient, emergency room, operating rooms and inpatient settings.
- Exposure and involvement in evaluation and treatment of maxillofacial pathology, trauma and orthognathic surgeries.
- Exposure to the teamwork (medical & dental) approach in evaluation and treatment of dental conditions associated with underlying medical conditions.
- Exposure to the dental team role in care for Cancer and cardiothoracic surgery patients.
- Exposure to management of dental emergencies that can be provided at primary care medical offices.
- At the conclusion of the rotation, medical students can be able to identify abnormal dental, oral and maxillofacial conditions and be able to provide appropriate referrals.

Dermatology – Rochester and Batavia Outpatient Sites

Preceptor: Gian Vinelli, MD, FAAD, FASDS, FACMS

Locations:

Rochester Regional Health Dermatology and Mohs Surgery Linden Oaks Medical Campus
10 Hagen Drive, Suite 300
Rochester, NY 14625

Rochester Regional Health Dermatology – Batavia 7 Evans Street, Batavia, NY 14020

Genesee Valley Dermatology & Laser Centre
2250 Brighton Henrietta Townline Road, Rochester, NY 14623

Description:

Dermatology is a broad specialty which involves the treatment of the skin, hair and nails. The field encompasses both medical and surgical treatment modalities. Dermatologists must complete a preliminary year of residency in either internal medicine, general surgery or transitional training followed by three years of dermatology residency. They may then further specialize in Pediatric, Dermatopathology, Cosmetic or Mohs Micrographic Surgery by completing another year or more of fellowship training.

For more information, visit the American Academy of Dermatology website:

<https://www.aad.org/public>

Students will work closely with the attending, observing and participating in the care of patients across three different clinics in the Rochester area. There will be planned didactic sessions, journal club, tumor board and grand rounds. Students are encouraged to participate in these virtual sessions.

Students are expected to read extensively during the course of the elective. The recommended text is: Andrews' Diseases of the Skin.

As students' progress through the elective they will have the opportunity to transition from shadowing the attending to seeing patients independently to hone their knowledge.

Curriculum:

4 weeks of General, Cosmetic and Surgical Dermatology Clinic

Goals and Objectives:

- Gain a general understanding of common inflammatory, neoplastic, and infectious disorders of the skin, hair and nails
- Gain a general understanding of cosmetic dermatology including the use of laser surgery, toxins and fillers

- Gain a general understanding of surgical dermatology including cryotherapy, biopsies, excisions, and Mohs Micrographic Surgery (including neoplastic dermatopathology)
- Understanding of when to appropriately refer cases to dermatologists
- Gain the ability to properly perform a history and physical examination of patients with skin disease through the understanding of skin morphology

Diagnostic Radiology and Pathology – Rochester General Hospital

Description:

This elective provides exposure to the wide range of clinical services in the departments of Pathology and Radiology. The goal is to deepen a student's understanding of the role of Radiology and Pathology in the management of patients.

The pathology component will provide a general introduction to laboratory services with didactics and rotations through the core laboratory, microbiology, blood bank, and hematology. Students will attend surgical pathology sign-out with staff pathologists. Self-study course materials in the form of case studies and slide sets will be provided to add context and depth. During the radiology component, students will rotate through the chest, GIGU, neuro, and mammography sections. Time in the reading room will be supplemented with interactive online teaching cases. The course also includes a two day introduction to Interventional Radiology to gain exposure to biopsy techniques and periprocedural care.

Work is supervised on an individual basis by faculty and house staff. Students will be expected to attend departmental conferences/lectures and participate in sign-out sessions. There are no evening or weekend call responsibilities. At the end of the rotation, students will deliver a 15-20 minute presentation about an interesting case encountered during the elective.

Curriculum:

Diagnostic Radiology rotation: 2 weeks Pathology rotation: 2 weeks

Goals and Objectives:

- Demonstrate a general understanding of the role of Radiology and Pathology in patient care, including at multidisciplinary conferences.
- Demonstrate a general understanding of biopsy adequacy, sample bias, tissue management, and radiologic correlation.
- Be familiar with the basic principles of pathologic staging of tumors as they apply to the gross and microscopic evaluation of resection specimens.
- Gain familiarity with staging criteria and imaging findings for common cancers.

Course Directors:

Radiology: Joel Thompson, MD

M: joel.thompson@rochesterregional.org

T: 585.922.2932

Pathology: Joseph Hatem, MD

M: joseph.hatem@rochesterregional.org

T: 585 922 9870

Diagnostic Radiology Elective – Rochester General Hospital

Description:

This four week elective will introduce the fundamentals of basic radiologic imaging and interpretation. The course combines direct learning in the radiology reading rooms, time in multidisciplinary conferences, and on-line teaching modules that cover the basics of imaging interpretation and appropriate exam utilization. Each student will rotate through major radiology subspecialties: Abdominal, Breast, Cardiothoracic, Emergency, Musculoskeletal, Neuroradiology, Nuclear Medicine, and Ultrasound. The course also includes a two day introduction to Interventional Radiology.

There are no evening or weekend call responsibilities. At the end of the rotation, each student will prepare and deliver a short presentation of an interesting case, highlighting imaging findings and differential diagnosis. Upon completion of this elective, a student's ability to recognize and interpret pathology on common imaging modalities will be greatly enhanced. Students will also gain an appreciation for the central role of imaging in many diagnoses and patient care settings.

Curriculum:

4 weeks of hybrid learning. Half the day will be spent in radiology reading rooms for direct in-person teaching and in resident teaching conferences. The other half day will be completing interactive online patient cases (Radiology course on Aquifer.org).

Goals and Objectives:

- Gain a general understanding of diagnostic radiology's role in the healthcare system, including how each radiology subspecialty partners with other medical specialties in enhancing patient care.
- Acquire anatomy and general interpretation skills of commonly performed imaging studies.
- Recognize emergent findings on x-ray and CT examinations.
- Understand the ALARA principle and basic radiation/MRI safety.
- Learn the reasoning behind appropriate imaging selection and ordering, as defined by the ACR Appropriateness Criteria.

Diagnostic Radiology Sub-I – Rochester General Hospital

Description:

This four week elective will introduce the fundamentals of basic radiologic imaging and interpretation. The course combines direct learning in the radiology reading rooms, time in multidisciplinary conferences, and on-line teaching modules that cover the basics of imaging interpretation and appropriate exam utilization. Each student will rotate through major radiology subspecialties: Abdominal, Breast, Cardiothoracic, Emergency, Musculoskeletal, Neuroradiology, Nuclear Medicine, and Ultrasound. The course also includes a two day introduction to Interventional Radiology.

There are no evening or weekend call responsibilities. At the end of the rotation, each student will prepare and deliver a short presentation of an interesting case, highlighting imaging findings and differential diagnosis. Upon completion of this elective, a student's ability to recognize and interpret pathology on common imaging modalities will be greatly enhanced. Students will also gain an appreciation for the central role of imaging in many diagnoses and patient care settings.

Curriculum:

4 weeks of hybrid learning. One half of the day will be spent in radiology reading rooms for direct in-person teaching with participation in resident teaching conferences. The other half day will be completing interactive online patient cases (Radiology course on Aquifer.org).

Goals and Objectives:

- Gain a general understanding of diagnostic radiology's role in the healthcare system, including how each radiology subspecialty partners with other medical specialties in enhancing patient care.
- Acquire anatomy and general interpretation skills of commonly performed imaging studies.
- Recognize emergent findings on x-ray and CT examinations.
- Understand the ALARA principle and basic radiation/MRI safety.
- Learn the reasoning behind appropriate imaging selection and ordering, as defined by the ACR Appropriateness Criteria.

Endocrinology – Canton-Potsdam Hospital

Description:

The purpose of this rotation is to afford the trainee an opportunity to develop familiarity with the spectrum of endocrinologic disease.

Goals and Objectives:

- At the conclusion of this elective, the rotator will be able to:
- Diagnose common endocrine conditions
- Order and interpret appropriate endocrine laboratory tests
- Outline appropriate therapy for common endocrine conditions
- Evaluate complications of common endocrine disorders

PRINCIPAL TEACHING METHODS

St. Lawrence Health Endocrinology Clinic

- The majority of time will be spent seeing patients at our clinic and follow-up endocrine consults. In this setting they see new and returning patients under the supervision of the sole endocrinologist in our health system, Dr. Paul Tejera. The rotators learn physical examination techniques, history skills, therapeutic and management options, interpretation of clinical data, differential diagnosis, and appropriate use of technology.

Didactic

- When time allows, short didactic lectures will be given directed towards etiology of disease, differential diagnosis, therapeutic and management options, and interpretation of clinical data.

EDUCATIONAL CONTENT

Mix of diseases:

Rotators are able to see adult patients who present with a full spectrum of endocrine disorders: Diabetes mellitus (type 1 and type 2), gestational diabetes, obesity, thyrotoxicosis, hypothyroidism, goiter, thyroid nodules, thyroid cancer, thyroiditis, thyroid disorders in pregnancy, pituitary tumors, hyperparathyroidism, osteoporosis, male hypogonadism, female hirsutism, and adrenal disorders.

Patient characteristics:

Patients seen represent a variety of different socio-economic backgrounds. Ages are from 18 and up. They are a cross-section of races and ethnicities, reflecting the diverse cultural environment of St. Lawrence County

Procedure skills:

Procedure skills gained on this rotation are: physical examination of the thyroid, physical examination of the foot in the patient with diabetes.

COURSE REQUIREMENTS

Attendance of outpatient clinic, Monday-Friday 8AM-4PM

EDUCATIONAL MATERIALS

Guidelines to common endocrine disorders can be found at:

1. AACE (American Association of Clinical Endocrinologists)
<https://www.aace.com/publications/guidelines>
2. ADA (American Diabetes Association):
3. <http://www.diabetes.org/>
4. Endocrine Society
<https://www.endocrine.org/guidelines-and-clinical-practice/clinical-practice-guidelines>
5. ATA (American Thyroid Association):
<https://www.thyroid.org/professionals/ata-professional-guidelines/>

Texts:

Major textbooks of internal medicine (Harrison's, Cecil, Kelley): sections on endocrinology; Greenspan's Basic & Clinical Endocrinology (Lange Series), Garner & Shoback (eds.)

STRENGTHS/LIMITATIONS

The rotation provides a thorough, complete experience in the diagnosis and management of endocrine disorders. The trainee is able to participate in patient care under the supervision of faculty with expertise in endocrinology and metabolism.

As an elective rotation, not all students will participate in this rotation.

TEACHING FACULTY

Paul Tejera, MD, FACE

Endocrinology – Unity at Ridgeway Avenue, Rochester, NY

Location:

Unity Diabetes and Endocrinology Services 2655 Ridgeway Avenue, Suite 220
Rochester, NY 14626

Faculty Author: Salman Azim, M.D.

Purpose:

The purpose of this rotation is to afford the trainee an opportunity to develop familiarity with the spectrum of endocrinologic disease.

Goals and Objectives:

- At the conclusion of this elective, the rotator will be able to:
- Diagnose common endocrine conditions
- Order and interpret appropriate endocrine laboratory tests
- Outline appropriate therapy for common endocrine conditions
- Evaluate complications of common endocrine disorders

Principal Teaching Methods:

Unity Diabetes clinic, with limited time in the inpatient service

The majority of time will be spent seeing patients at our clinic and follow-up endocrine consults. In this setting they see new and returning patients under the supervision of faculty in the division of Endocrinology, Diabetes and Metabolism. The rotators learn physical examination techniques, history skills, pathophysiology, therapeutic and management options, interpretation of clinical data, differential diagnosis, and appropriate use of technology.

Didactic

There is a weekly endocrine conference, lasting one hour, consisting of case presentations, monthly journal club and research conferences. There is also a weekly core curriculum lecture. Rotators are expected to attend these conferences. Learning is directed towards the domains of pathophysiology and etiology of disease, differential diagnosis, therapeutic and management options, interpretation of clinical data, and appropriate use of technology.

Educational Content:

Mix of diseases

Rotators are able to see patients who present with a full spectrum of endocrine disorders: Diabetes mellitus (type 1 and type 2), obesity, PCOS, thyrotoxicosis, hypothyroidism, goiter, thyroid nodules, thyroid cancer, thyroiditis, pituitary tumors, hypercalcemia, Paget's

disease, osteoporosis, hyperlipidemia, sexual dysfunction, male hypogonadism, female hirsutism, and adrenal disorders to name some.

Patient characteristics

Patients seen represent a variety of different socio-economic backgrounds. Ages are from 18 up. They are a cross-section of races and ethnicities, reflecting the diverse cultural environment of Monroe County.

Procedure skills

Procedure skills gained on this rotation are: physical examination of the thyroid, physical examination of the foot in the patient with diabetes. The student may also observe needle aspiration of the thyroid gland.

Course Requirements:

Attendance of inpatient rounds and outpatient fellow's clinic and Endocrine Friday Conferences and Wednesday fellow conference.

Educational Materials:

Important Resources and Articles:

- Every January the American Diabetes Foundation Publishes in Diabetes Care Update for the Management of Diabetes www.diabetes.org/diabetescare (updated every January) located in the supplement of the January issue. Rotators on the inpatient rotation should spend particular attention on the chapter on Inpatient Management of Diabetes. An abbreviated version for primary care doctors can give a nice overview of standards and algorithms for diabetes management.
- Thyroid nodule evaluation:
 - 2015 American Thyroid Association Management Guidelines for Adult Patients with Thyroid Nodules and Differentiated Thyroid Cancer: The American Thyroid Association Guidelines Task Force on Thyroid Nodules and Differentiated Thyroid Cancer. Haugen BR, Alexander EK, Bible KC, Doherty GM, Mandel SJ, Nikiforov YE, Pacini F, Randolph GW, Sawka AM, Schlumberger M, Schuff KG, Sherman SI, Sosa JA, Steward DL, Tuttle RM, Wartofsky L. *Thyroid*. 2016 Jan; 26(1):1-133. PMID: 26462967
- Adrenal Incidentaloma:
 - Management of adrenal incidentalomas: European Society of Endocrinology Clinical Practice Guideline in collaboration with the European Network for the Study of Adrenal Tumors. *Eur J Endocrinol*. 2016 Aug; 175(2):G1-G34. Fassnacht M1, Arlt W2, Bancos I3, Dralle H4, Newell-Price J5, Sahdev A6, Tabarin A7, Terzolo M8, Tsagarakis S9, Dekkers OM10. PMID: 27390021
- Pituitary Incidentaloma:
 - Pituitary incidentaloma: an endocrine society clinical practice

guideline. Freda PU, Beckers AM, Katznelson L, Molitch ME, Montori VM, Post KD, Vance ML; Endocrine Society. J Clin Endocrinol Metab. 2011 Apr; 96(4):894-904. PMID: 21474686

- Bariatric Guidelines:
 - Clinical practice guidelines for the perioperative nutritional, metabolic, and nonsurgical support of the bariatric surgery patient-- 2013 update: cosponsored by American Association of Clinical Endocrinologists, The Obesity Society, and American Society for Metabolic & Bariatric Surgery. Mechanick JI, Youdim A, Jones DB, Garvey WT, Hurley DL, McMahon MM, Heinberg LJ, Kushner R, Adams TD, Shikora S, Dixon JB, Brethauer S; American Association of Clinical Endocrinologists; Obesity Society; American Society for Metabolic & Bariatric Surgery. Obesity (Silver Spring). 2013. PMID: 23529939'
- Endocr Rev. 2018 Mar 6. The Science of Obesity Management: An Endocrine Society Scientific Statement. Bray et al.

Medical students and residents can get a complimentary membership in many societies:
 AACE (American Association of Clinical Endocrinologists)_

<https://www.aace.com/publications/guidelines>

ADA (American Diabetes Association): <http://www.diabetes.org/>

Endocrine Society

<https://www.endocrine.org/guidelines-and-clinical-practice/clinical-practice-guidelines>

ATA (American Thyroid Association): <https://www.thyroid.org/professionals/ata-professional-guidelines/>

Texts:

Major textbooks of internal medicine (Harrison's, Cecil, Kelley): sections on endocrinology;
 Greenspan's Basic & Clinical Endocrinology (Lange Series), Garner & Shoback (eds.)

Teaching Faculty:

K.K Rajamani, MD

R. James Bingham, MD Suzan Saber, MD Salman Azim, MD

Kye Zozobrado, M.D

Endocrinology, Diabetes, Metabolism – Alexander Park Campus, Rochester, NY

Location:

Diabetes and Endocrinology at Alexander Park
224 Alexander Street, Suite 200
Rochester, NY 14607

Learning Objectives:

- By the end of the rotation the Medical Student should be able to:
- Perform appropriate endocrine exams.
- Discuss the purposes of endocrinologic tests and when to appropriately order them.
- Demonstrate the ability to integrate the history, physical exam, and lab results in order to reach a diagnostic conclusion.
- List the available treatment options for the management of diabetes, thyroid and pituitary disease as well as the other endocrinologic disorders encountered.

Medical students rotating through the endocrine division may spend time with the inpatient service team. They also rotate through outpatient clinics including patients with diabetes, general endocrinology as well as thyroid biopsy and pituitary clinics.

Inpatient:

Students are expected to round daily with the Attending on service under the supervision of fellow(s). The time to round is determined by the schedule of the Attending on service.

Clinical:

Medical Students are expected to engage in the following clinics: Thyroid Biopsy Clinic, General Endocrine/Diabetes Clinic, Pituitary Clinic,

Conferences:

Medical Students are expected to attend all endocrine conferences that are not in conflict with their own continuity clinics.

Study Materials:

ADA Diabetes Standards of Care, AACE Diabetes Guidelines, other assigned readings

Family Medicine – Canisteo Valley Family Practice**Location:**

Canisteo Valley Family Practice
111 Loder Street, Suite A, Hornell, NY 14843

Description:

Students will experience seeing primary care patient management in a rural setting including but not limited to patient continuity of care plans and follow up visits, and urgent care visits.

Family Medicine – Family Medicine of Alfred**Location:**

Family Medicine of Alfred
28 Church Street, Alfred, NY 14802

Description:

Students will experience seeing primary care patient management in a rural setting including but not limited to patient continuity of care plans and follow up visits, urgent care visits.

Hematology – Rochester General Hospital

Description:

For the Hematology rotation the rotator will spend most of time on the inpatient service seeing new consultations and follow-ups and rounding with the attending. They will spend half a day per week in Hemophilia clinic seeing patients under the supervision of the attending. During this rotation, rotators will work to formulate appropriate care of plan and work with multidisciplinary teams.

Goals and Objectives:

On the Hematology consults rotation, rotators will become familiar in the workup, diagnosis and management of patients with both benign and malignant blood disorders including leukemia lymphoma, and myeloma.

Rotators will have opportunities to gain exposure in some of the following areas:

- Prevention, evaluation, diagnosis, staging, and management of patients with hematologic disorders
- Tests of hemostasis and thrombosis for both congenital and acquired disorders.
- Management of inherited blood disorders specially von Willebrand disease and Hemophilias A and B
- Management of thrombotic disorders, inherited and acquired and complications of these disorders.
- Antithrombotic and anticoagulation therapy
- Assessment and interpretation of complete blood count
- Interpretation of peripheral blood smears
- Multiagent chemotherapeutic protocols
- Indications of indwelling access catheters for treatment
- Management of neutropenic and immunocompromised patients
- Management of pain, anxiety and depression in patients with hematologic disorders
- Clinical indications for use of blood products and associated risks
- Care and management of geriatric patients with malignancies
- Concepts of supportive care, including hematologic, infectious disease, and nutrition

Infectious Disease – Rochester General Hospital

Description:

Infectious Diseases (ID) is a specialty focused on the prevention, diagnosis, management, and treatment of complex infections. Students will expand their knowledge of the pathogenesis of infectious diseases, the utility of the microbiologic and radiographic diagnostic evaluations, and the use of antimicrobial agents.

Location:

Rochester General Hospital – 1425 Portland Avenue, Rochester, NY 14621

Goals and Objectives:

- To obtain experience in the clinical features, natural history, prevention, diagnosis, and treatment of a broad range of infectious diseases including:
 - The febrile patient
 - Central nervous system infections
 - Upper and lower respiratory tract infections
 - Cardiovascular and bloodstream infections
 - Peritonitis and other intra-abdominal infections
 - Skin, skin structure, joint, and bone infections
 - Genitourinary system
 - Sexually transmitted diseases
 - Nosocomial infections
 - Surgical infections
 - Infections in the immunocompromised host
 - Mycobacterial and fungal infections
 - Sepsis syndromes
 - Conditions that mimic an infectious disease
 - Management of multidrug resistant organisms
 - Infection control and mitigation of infectious agents in the hospital principles
- To demonstrate a general understanding of the microbiologic evaluation in the management of infectious diseases:
 - Interpretation of gram stains and culture results
 - Methods of organism identification in the variety of patient specimens (blood, urine, stool, cerebrospinal fluid, etc.)
 - Antimicrobial susceptibility testing and interpretation of results
 - Clinical correlations between active infection and colonization
- To demonstrate a general understanding of the principles of antimicrobial prescribing:
 - Antimicrobial spectrum of activity
 - Antimicrobial dosing
 - Common antimicrobial side effects
 - Durations of treatment
 - Antibiotic allergies

- Transition of the hospitalized patient into the outpatient parenteral antibiotic therapy (OPAT) program
- Antibiotic stewardship

Student Responsibilities:

Administrative:

- It is the student's responsibility to review this curriculum prior to the start of the rotation.
- It is the student's responsibility to review his/her performance with the preceptor at the end of the rotation.

Clinical:

Patient evaluation:

- Review chart of patient.
- Perform and record history and physical on patient.
- Obtain and review all pertinent ancillary data such as radiology and laboratory reports.
- Complete the consult note using the standard ID consult note form, with a well-reasoned assessment and a differential diagnosis, if appropriate.
- The final recommendations will be written in the chart after you discuss the case with the ID attending.

Subject review prior to presentation of case to attending:

- Begin general reading of literature of the apparent problem.
- Identify key issues that will need to be addressed, such as antibiotic options, additional diagnostic workup, duration of therapy, route of therapy, etc.
- Be prepared to discuss case with attending based on literature.

Meet with ID attending:

- Present case to ID attending using all the data gathered in the order as outlined in the consult note, including pertinent course of the hospitalization and patient histories.
- Pay extra attention to the microbiologic workup, including gram stains of any cultures, sources of cultures, and antibiotic susceptibility of pathogens.
- Be prepared to participate in making the plan and recommendations for "your" patient.

Follow-up rounds

- Patients are nearly often expected to be evaluated daily, with progress notes entered into the medical record.
- The "SOAP" (Subjective Objective Assessment and Plan) format for follow-ups is acceptable.

- Limit if not completely avoid “copy and paste” function in the electronic medical record of assessments that are authored by another provider. Each case deserves its own original daily assessment.
- All new or evolving microbiologic data should be highlighted in each subsequent progress note.

Infectious Disease – Unity Hospital and Unity Outpatient Clinics

Description:

Infectious Diseases (ID) is a specialty focused on the prevention, diagnosis, management, and treatment of complex infections. Students will expand their knowledge of the pathogenesis of infectious diseases, the utility of the microbiologic and radiographic diagnostic evaluations, and the use of antimicrobial agents.

Locations:

Combined Inpatient and Outpatient Rotation:

Unity Hospital - 1555 Long Pond Rd, Rochester, NY 14626

POB - 1561 Long Pond Road, Suite 220, Rochester, NY 14626

St. Mary's - 55 Genesee Street, Bishop Kearney Building, 3rd Floor, Rochester, NY 14611

Please note: If interest is for a different distribution of in- and outpatient, it may be taken into consideration.

Goals and Objectives:

- To obtain experience in the clinical features, natural history, prevention, diagnosis, and treatment of a broad range of infectious diseases including:
 - The febrile patient
 - Central nervous system infections
 - Upper and lower respiratory tract infections
 - Cardiovascular and bloodstream infections
 - Peritonitis and other intra-abdominal infections
 - Skin, skin structure, joint, and bone infections
 - Genitourinary system
 - Sexually transmitted diseases
 - Nosocomial infections
 - Surgical infections
 - Infections in the immunocompromised host
 - Mycobacterial and fungal infections
 - Sepsis syndromes
 - Conditions that mimic an infectious disease
 - Management of multidrug resistant organisms
 - Infection control and mitigation of infectious agents in the hospital principles
- To demonstrate a general understanding of the microbiologic evaluation in the management of infectious diseases:
 - Interpretation of gram stains and culture results
 - Methods of organism identification in the variety of patient specimens (blood, urine, stool, cerebrospinal fluid, etc.)
 - Antimicrobial susceptibility testing and interpretation of results
 - Clinical correlations between active infection and colonization

- To demonstrate a general understanding of the principles of antimicrobial prescribing:
 - Antimicrobial spectrum of activity
 - Antimicrobial dosing
 - Common antimicrobial side effects
 - Durations of treatment
 - Antibiotic allergies
 - Transition of the hospitalized patient into the outpatient parenteral antibiotic therapy (OPAT) program
 - Antibiotic stewardship

Student Responsibilities:

Administrative:

- It is the student's responsibility to review this curriculum prior to the start of the rotation.
- It is the student's responsibility to review his/her performance with the preceptor at the end of the rotation.

Clinical:

Patient evaluation:

- Review chart of patient.
- Perform and record history and physical on patient.
- Obtain and review all pertinent ancillary data such as radiology and laboratory reports.
- Complete the consult note using the standard ID consult note form, with a well-reasoned assessment and a differential diagnosis, if appropriate.
- The final recommendations will be written in the chart after you discuss the case with the ID attending.
-

Subject review prior to presentation of case to attending:

- Begin general reading of literature of the apparent problem.
- Identify key issues that will need to be addressed, such as antibiotic options, additional diagnostic workup, duration of therapy, route of therapy, etc.
- Be prepared to discuss case with attending based on literature.

Meet with ID attending:

- Present case to ID attending using all the data gathered in the order as outlined in the consult note, including pertinent course of the hospitalization and patient histories.
- Pay extra attention to the microbiologic workup, including gram stains of any cultures, sources of cultures, and antibiotic susceptibility of pathogens.
- Be prepared to participate in making the plan and recommendations for "your" patient.

Follow-up rounds

- Patients are nearly often expected to be evaluated daily, with progress notes entered into the medical record.
- The “SOAP” (Subjective Objective Assessment and Plan) format for follow-ups is acceptable.
- Limit if not completely avoid “copy and paste” function in the electronic medical record of assessments that are authored by another provider. Each case deserves its own original daily assessment.
- All new or evolving microbiologic data should be highlighted in each subsequent progress note.

Contact Persons:

Katura Gardner: Katura.gardner@rochesterregional.org, office 922-4146, cell 734-5165
Anja Bottler, MD: anja.Bottler@rochesterregional.org, office 368-3506, cell 766-5376

Integrative Eye Care – Reed Eye Associates, Rochester, NY

Locations:

Reed Eye Associates – Irondequoit
1338 East Ridge Road
Rochester, NY 14621

Reed Eye Associates – Pittsford
500 Kreag Road
Pittsford, NY 14534

Westfall Surgery Center
1065 Senator Keating Boulevard
Rochester, NY 14618

Description:

Students will experience training in use of devices for screening patients for early signs of diseases through eye examination. Students will be able to refer patients to eye specialists based on primary care visit screening.

The Integrated Eye Care Elective exposes the medical student to the specialty of ophthalmology. Rochester Regional Health provides routine, medial, and surgical eye care to patients in the Greater Rochester area through the services of ophthalmologists and optometrists. Ophthalmologists are a Medical Doctor or Doctor of Osteopathic Medicine who complete four years of residency training (first year in internal medicine or general surgery) and if desired, one to two years of fellowship training in a subspecialty (i.e. retina, cornea, glaucoma, etc). Doctors of Optometry complete four years of graduate, doctoral training and electively can complete one year of residency in various specialties (i.e. ocular disease, primary eye care, pediatrics, etc.). Both professions work together to provide comprehensive medical and surgical eye care to our patients at various locations throughout the Rochester area. Medical students will gain clinical experience in both patient care and surgical observation by working closely with various providers in the Department of Ophthalmology.

Length of elective: 4 weeks

Goals of Elective:

- General understanding of ocular anatomy and physiology
- Exposure to a variety of ocular diseases
- Demonstrate understanding of the mechanisms of ocular disease and appropriate treatments
- Demonstrate the ability to understand the implications of systemic disease through an ophthalmic examination
- Establish a strong understanding of the role of a primary care physician and other specialties of medicine in collaborative care with eye care professionals

Internal Medicine-Outpatient – Reidman Health Center-Outpatient

Description:

The OPD is a resident run outpatient internal medicine clinic of the Rochester General Hospital's Internal Medicine Residency Program. Under the supervision of attending physicians, residents see adult patients in a primary care setting. Common ambulatory conditions seen include diagnoses like hypertension, diabetes, congestive heart failure, coronary artery disease, dyslipidemia and stroke.

Internists complete 3 years of residency training following which they are able to practice internal medicine in both a clinic as well as hospital setting. However, most internists choose to either practice only outpatient medicine (as primary care physicians) or only inpatient medicine (as hospitalists). Internists are able to further subspecialize through additional training in fellowship programs in fields such as cardiology, gastroenterology, nephrology, and pulmonology to just name a few.

Rotation Structure:

4 weeks outpatient clinic rotation

Objectives:

- Understand how an outpatient internal medicine clinic runs.
- Understand basic pathophysiology and treatment for common ambulatory care conditions like hypertension, diabetes, and coronary artery disease
- Demonstrate ability to take comprehensive history from a patient and present it.
- Demonstrate strong interpersonal and communication skills when communicating with patients and staff.
- Understand role of social work and care management teams.
- Demonstrate professionalism.

Internal Medicine-Outpatient – Unity Faculty Partners

Description:

This elective offers students the opportunity to enhance their skills in physical examination, patient management, and implementation of diagnostic and therapeutic plans in the ambulatory internal medicine setting. Students will have primary responsibility for writing the progress notes on the patients they see, developing their electronic health record (Epic) documentation and navigation skillset, and honing their ability to communicate concisely with specialists, practice partners, and office staff. Reading assignments will cover clinical problems and common procedures in the outpatient setting. As this is the ambulatory teaching practice of the Unity Hospital Internal Medicine Residency Program, students will participate in didactic conferences, workshops, and practice huddles with the residents.

Objectives:

- Develop proficiency in the comprehensive evaluation/physical exam skills necessary to provide care to patients presenting in the ambulatory internal medicine setting.
- Interpret common laboratory, procedural, and diagnostic data as related to the provision of ambulatory care.

Internal Medicine/Nephrology – Massena Hospital**Description:**

This will include diagnosis and management of patients with acute kidney injury, chronic kidney disease, glomerular disease, interstitial disease, kidney stone and urinary tract disorders including obstructive nephropathy, kidney disease manifestations in multi system organ failure, cardio renal disease, hepatorenal syndrome, as well as recognition and management of fluid and electrolyte disorders.

Students will learn the indications for Dialysis in the acute hospital setting and in the clinic will have exposure to patients in various stages of chronic kidney disease. Management will include medical management, dialysis preparation, and initiation of kidney transplantation evaluations

Interventional Radiology Elective – Rochester General Hospital

Description:

The Department of Diagnostic Imaging at Rochester General Hospital has offered a Diagnostic Radiology residency for over 40 years. Recently the IR Division applied and was certified for the Integrated Interventional Radiology residency, Independent Interventional Radiology residency, and the Early Specialization in Interventional Radiology (ESIR) track, all abiding by the ACGME standards previously set forth. We accept medical students to rotate on our IR service year-round. The general educational goal is for students in our program to have an introduction to the interpretation of all vascular and diagnostic imaging modalities, as well as an introduction to not only the technical skills of minimally invasive image-guided procedures, but also compassionate, clinical care of their patients both before and after the procedure. Students rotating through our IR program should come away with a general understanding of how a busy clinical IR service runs.

Core IR Faculty:

Raj Pyne, MD, FSIR – Program Director, IR Residencies Michael Rivero, MD – Division Chief, IR

Jonathan Broder, MD, FACR Atul Gupta, MD, FACR Donnette Dabydeen, MD Ihab Akladios, MD

Garrett Schneider, MD

Physician Assistants:

Regina McNamara, PA-C (RGH) Ryan Ferguson, PA-C (RGH) Sarah Carlton, PA-C (TVI) Sergio Dilone, PA-C (Unity)

Core IR and DR Residency Personnel:

Raj Pyne, MD, FSIR – PD, IR Residencies Joel Thompson, MD – PD, DR Residency

Locations:

Rochester General Hospital (RGH) – Main Campus, 1425 Portland Ave, Rochester, NY IR Outpatient Clinic – Northern Heights Building, 1255 Portland Ave, Rochester, NY The Vein Institute (TVI) – Private Vein Practice, 2050 South Clinton Ave, Rochester, NY Unity Hospital - 1555 Long Pond Rd, Rochester, NY 14626

Goals and Objectives:

- To be introduced to the disease states treated by IR using minimally invasive procedures such as angiography, fluoroscopy, ultrasound, CT, MRI, nuclear scintigraphy, or other image guidance, including in emergency situations. In

- addition, appropriate utilization of treatments taking into account indications and contraindications, patient clinical status, risk and benefits, alternative treatment options, cost-effectiveness, and evidence-based medicine. It is expected that students will “scrub in” on cases, and as they become experienced and comfortable be able to first assist or become the primary operator when it is deemed appropriate after displaying the requisite knowledge and skills.
- To learn all aspects of pre-procedural workup for an IR patient, including patient selection, appropriate history and physical, preparation of patients for procedures, informed consent, discussion of risks, benefits, and alternatives, coagulation parameters, antibiotic prophylaxis, etc.
- To learn all aspect of intra-procedural care besides the intervention for a patient, including sedation, sedation reversal, anticoagulation, emergency codes, what it entails to being the leader of the Angio team, etc.
- To learn all aspects of post-procedural care, including post-procedural orders, monitoring patients in recovery, appropriateness to discharge, appropriateness and ability to admit patients under the IR service, and following inpatients.
- To become adept at consulting on a patient in IR clinic to decide which procedure to perform or whether to perform it, as well as appropriate outpatient de novo workup of a referral including history and physical with appropriate assessment and plan.
- To gain the experience to consult on an inpatient in a timely manner with the ability to make an appropriate assessment and plan and discussing options and treatment plan with referring services and primary teams.
- To learn the value of becoming part of a multidisciplinary team to achieve the goal of best patient care, and how IR fits into this multidisciplinary approach as a true consult service.
- To be introduced to radiation safety for interventional procedures.
- To become familiar with all non-invasive radiological tests that pertain to IR and to learn their appropriate utilization of imaging modalities in diagnosis and intervention.
- To begin to interpret the imaging modalities utilized for an IR patient given clinical indications, contraindications, risks, benefits, and cost effectiveness.
- To understand compassionate patient care through the lens of an IR team.

Overall Assessment Methods on the IR Service:

- Pre-test at the start of the rotation to get a basis for the understanding of IR and the IR service.
- Real-life scenario daily assessment by IR attendings, residents, PA’s, nurses, and techs by partaking in following patients, morning rounds, patient presentations and workups, consultations, IR procedures, and clinic as well as rotations at The Vein Institute

- Attendance and participation in conferences and other activities, including IR Grand Rounds, IR Journal Club, Tumor Board Multidisciplinary Conference, and others set forth.
- Evaluation of a case-based presentation by the end of the rotation to be shared with the IR team and all the residents at a noon conference.
- End-of-rotation post-test to gain an understanding of increased knowledge base in all aspects of IR, including disease states, procedures, patient workup, and peri-procedural care, and practice management along with discussion at an exit interview with Dr. Pyne.

Interventional Radiology Sub-I – Rochester General Hospital

Description:

The Department of Diagnostic Imaging at Rochester General Hospital has offered a Diagnostic Radiology residency for over 40 years. Recently the IR Division applied and was certified for the Integrated Interventional Radiology residency, Independent Interventional Radiology residency, and the Early Specialization in Interventional Radiology (ESIR) track, all abiding by the ACGME standards previously set forth. We accept medical students to rotate on our IR service year-round. The general educational goal is for students in our program to have an introduction to the interpretation of all vascular and diagnostic imaging modalities, as well as an introduction to not only the technical skills of minimally invasive image-guided procedures, but also compassionate, clinical care of their patients both before and after the procedure. Students rotating through our IR program should come away with a general understanding of how a busy clinical IR service runs.

Core IR Faculty:

Raj Pyne, MD, FSIR – Program Director, IR Residencies Michael Rivero, MD – Division Chief, IR

Jonathan Broder, MD, FACR Atul Gupta, MD, FACR Donnette Dabydeen, MD Ihab Akladios, MD

Garrett Schneider, MD

Physician Assistants:

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Core IR and DR Residency Personnel:

Raj Pyne, MD, FSIR – PD, IR Residencies Joel Thompson, MD – PD, DR Residency

Locations:

Rochester General Hospital (RGH) – Main Campus, 1425 Portland Ave, Rochester, NY IR Outpatient Clinic – Northern Heights Building, 1255 Portland Ave, Rochester, NY The Vein Institute (TVI) – Private Vein Practice, 2050 South Clinton Ave, Rochester, NY Unity Hospital - 1555 Long Pond Rd, Rochester, NY 14626

Goals and Objectives:

- To be introduced to the disease states treated by IR using minimally invasive procedures such as angiography, fluoroscopy, ultrasound, CT, MRI, nuclear scintigraphy, or other image guidance, including in emergency situations. In

- addition, appropriate utilization of treatments taking into account indications and contraindications, patient clinical status, risk and benefits, alternative treatment options, cost-effectiveness, and evidence-based medicine. It is expected that students will “scrub in” on cases, and as they become experienced and comfortable be able to first assist or become the primary operator when it is deemed appropriate after displaying the requisite knowledge and skills.
- To learn all aspects of pre-procedural workup for an IR patient, including patient selection, appropriate history and physical, preparation of patients for procedures, informed consent, discussion of risks, benefits, and alternatives, coagulation parameters, antibiotic prophylaxis, etc.
- To learn all aspect of intra-procedural care besides the intervention for a patient, including sedation, sedation reversal, anticoagulation, emergency codes, what it entails to being the leader of the Angio team, etc.
- To learn all aspects of post-procedural care, including post-procedural orders, monitoring patients in recovery, appropriateness to discharge, appropriateness and ability to admit patients under the IR service, and following inpatients.
- To become adept at consulting on a patient in IR clinic to decide which procedure to perform or whether to perform it, as well as appropriate outpatient de novo workup of a referral including history and physical with appropriate assessment and plan.
- To gain the experience to consult on an inpatient in a timely manner with the ability to make an appropriate assessment and plan and discussing options and treatment plan with referring services and primary teams.
- To learn the value of becoming part of a multidisciplinary team to achieve the goal of best patient care, and how IR fits into this multidisciplinary approach as a true consult service.
- To be introduced to radiation safety for interventional procedures.
- To become familiar with all non-invasive radiological tests that pertain to IR and to learn their appropriate utilization of imaging modalities in diagnosis and intervention.
- To begin to interpret the imaging modalities utilized for an IR patient given clinical indications, contraindications, risks, benefits, and cost effectiveness.
- To understand compassionate patient care through the lens of an IR team.

Overall Assessment Methods on the IR Service:

- Pre-test at the start of the rotation to get a basis for the understanding of IR and the IR service.
- Real-life scenario daily assessment by IR attendings, residents, PA’s, nurses, and techs by partaking in following patients, morning rounds, patient presentations and workups, consultations, IR procedures, and clinic as well as rotations at The Vein Institute

- Attendance and participation in conferences and other activities, including IR Grand Rounds, IR Journal Club, Tumor Board Multidisciplinary Conference, and others set forth.
- Evaluation of a case-based presentation by the end of the rotation to be shared with the IR team and all the residents at a noon conference.
- End-of-rotation post-test to gain an understanding of increased knowledge base in all aspects of IR, including disease states, procedures, patient workup, and peri-procedural care, and practice management along with discussion at an exit interview with Dr. Pyne.

Intro to Hospitalist Medicine – Clifton Springs Hospital

Description:

Hospitalist medicine is a medical specialty dedicated to the delivery of comprehensive medical care to hospitalized patients. Practitioners of hospital medicine include physicians (“hospitalists”) and non-physicians (advanced practice providers) who engage in clinical care, teaching, research and or leadership in the field of general hospital medicine. Hospitalists manage and treat a significant range of complex and comorbid disease conditions. Hospitalists typically undergo residency training in general internal medicine, general pediatrics, or family practice. In addition to their core expertise, hospitalist physicians are also involved in quality improvement, collaboration and communication between various health care providers, and supporting a safe transition of patient care within the hospital and from the hospital to the community.

According to the National Rural Health Association (NRHA), more than 25 percent of the U.S. population lives in rural areas, yet less than 10 percent of the country’s doctors practice there. There is an urgent need for physicians to consider practicing in these regions to provide high quality care to areas which need it the most. There are challenges with rural practice but it does provide independence and significant amount of opportunity for the practicing physicians. The scope of practice is wider and the depth of knowledge is deeper.

For more information please visit the Society of Hospital Medicine (SHM) website:

[What Is a Hospitalist? | Society of Hospital Medicine](#)
[NRHA Services Corporation \(nrhapartners.com\)](#)

Curriculum:

Inpatient care at Clifton Springs Hospital: 1 week on and 1 week off rotation, 12 hour days.

Goals and Objectives:

- Demonstrate general understanding of hospital medicine, flow of patient care, team building strategies, and communication between various aspects of health care group
- Demonstrate understanding of common medical conditions seen in the hospital setting in terms of diagnosis, management and follow up care, including but not limited to acute congestive heart failure, chronic obstructive pulmonary disease, skin and soft tissue infections, osteomyelitis, diabetes ketoacidosis, COVID 19 pneumonia and many more
- Demonstrate proficiency in electronic medical records (writing at least 2 H&Ps, 4 Progress notes, and 1 Discharge summary)
- Present an original or review research article about a topic of your choice in internal medicine.

Lifestyle Medicine – Canandaigua Outpatient Site

Description:

Lifestyle Medicine (LM) is a new medical specialty that uses evidenced-based techniques to prevent, treat, and reverse lifestyle-related diseases like obesity, heart disease, and diabetes, by addressing their root cause—unhealthy lifestyle habits!

Both the US Centers for Disease Control and the World Health Organization estimate that 80% of the disease burden in the US (and 86% of the health care dollars!) is caused by what we do with our fingers (smoking) and our forks (diet), and what we *don't* do with our feet (physical activity). LM focuses on improving these habits while also addressing three other lifestyle factors--sleep, stress, and healthy relationships/life purpose—that can sabotage our ability to make healthy changes. While LM can be practiced as a subspecialty, basic LM concepts and interventions should be in every doctor's tool kit, as they benefit every patient and are applicable to nearly every specialty.

Goals and Learning Objectives of Rotation:

- Understand how healthier habits can be used to treat, reverse, and sometimes cure chronic lifestyle-related disease
- Be able to perform an initial LM-focused patient consultation
- Demonstrate the ability to work with patients to improve lifestyle habits from a collaborative/coach-based approach (as opposed to the expert/authoritarian approach)
- Participate in a 15-day Jumpstart program and experience eating a whole food, plant-based, low fat diet (the only diet that has been shown to actually reverse our nation's #1 killer, heart disease)
- Design and implement a personal stress management plan
- Evaluate your own lifestyle habits and start making changes that will help you live a longer, happier, healthier life!

Primary Location:

Rochester Regional Health Family and Lifestyle Medicine office at 401 S Main Street, Canandaigua, NY 14424 (about a 30 minute drive from Rochester). There will also be site visits at various locations in the Rochester area.

Primary Instructor:

Dr. Kerry Graff, Lead Lifestyle Medicine Physician at Rochester Regional Health

Additional Information:

For more information, visit the American College of Lifestyle Medicine website at www.lifestylemedicine.org and/or check out PlantWise, a 48-minute documentary on using whole food, plant-based diets to reverse disease: www.lifestylemedicine.org/PlantWise

Nephrology – Rochester General Hospital

Curriculum:

The Nephrology rotation at RGH is a combination in and outpatient rotation for four weeks. The medical student will be exposed to consultative Nephrology fundamentals of nephrology. This will include diagnosis and management of patients with acute kidney injury, chronic kidney disease, glomerular disease, interstitial disease, kidney stone and urinary tract disorders including obstructive nephropathy, kidney disease manifestations in multi-system organ failure, cardio renal disease, hepatorenal syndrome, as well as recognition and management of fluid and electrolyte disorders.

Students will learn the indications for Dialysis in the acute hospital setting and in the clinic will have exposure to patients in various stages of chronic kidney disease. Management will include medical management, dialysis preparation, and initiation of kidney transplantation evaluations.

Procedures will include routine analysis and microscopy. Depending upon the consult seen, there may be opportunities to view diagnostic kidney biopsies.

In addition students will be exposed to dialysis prescriptions and modalities including peritoneal dialysis, intermittent hemodialysis, slow low flow dialysis, and continuous renal replacement therapy.

Division Head:

Dr. Marvin Grief

Faculty Attending: Dr. Stephen Silver Dr. Jonathan Bress

Dr. Sreedevi Chennupati Dr. Pulkit Gandhi

Dr. Kevin Hix

Dr. Chao-Yu Hsu

Dr. Ana Molovic-Kokovic Dr. Shubha Shastry

Secretary: Patricia Read is primarily responsible to assist house staff and medical students who rotate on the nephrology service. All house staff and students must meet with Mrs. Read at the start of the rotation to sign the rotation log and receive the initial orientation and curriculum materials. Her phone number is 585-922-0402. The office is located 370 Ridge Road East, Rochester, NY 14621. Parking is free and available. Office Phone number: 585.922-0400

Rotation:

- New inpatient consultations will be assigned by the attending covering consultations for the week. Hospitalized dialysis patients may be followed under special circumstance.
- Each medical student is to sign up for one half day of Nephrology Clinic during each week of the rotation.
- Nephrology "attending rounds" will be held daily during the week at an agreed upon time and place with the Nephrologist on service.

Learning Venues:

- Daily patient rounds and attending rounds (AR). Format will be attending dependent.
- Clinical Conference (CC)
- Dialysis Multidisciplinary Rounds (MR) if coincident with clinic portion
- Outpatient Clinic (OC)
- General Medicine Noon Conference (NC)

Medical Student Responsibilities:

- Read and review the rotation details.
- Round on and write notes on patients followed on the service.
- Present new patients in full on the consultation service, and update day to day progress on any established patient being followed on the service.
- Take active part in all clinical conferences
- Attend Nephrology clinic half day per week, and complete write-ups on patients seen.
- Continue with outpatient ambulatory clinic responsibilities and attend noon conference when it does not conflict with Nephrology.

Neurology – Rochester General Hospital, Unity Hospital and Outpatient Sites

Locations:

Combined Inpatient and Outpatient Rotation:

- One week inpatient at *Rochester General Hospital*, 1425 Portland Avenue, Rochester, NY 14621
- One week inpatient at *Unity Hospital*, 1555 Long Pond Road, Rochester, NY 14626
- One week outpatient general neurology clinic – location TBD
- One week subspecialty clinic – location TBD

Description:

The Neurology Clerkship is an elective 4-week rotation that aims to provide an introduction to clinical neurology through experience in both inpatient and outpatient settings. The inpatient setting includes experience with the practice of emergency neurologic care and also management of neurologic pathology as it presents in the hospital. Outpatient settings include both general neurology clinics and subspecialty clinics. Those who are interested in pursuing neurology as a career will benefit from a broad initial exposure to neurologic pathology with individuals who dedicate their careers to clinical practice. Those who do not plan to select neurology as their career will benefit from learning how to assess neurologic pathology, how to treat common or life threatening neurologic disease, and when to call for neurologic consultation.

Goals:

To learn the skills needed to recognize and manage the neurologic conditions that all general medical practitioners are likely to encounter in medical practice.

Objectives:

At the end of this rotation you will be able to perform these techniques:

- Obtain a comprehensive history from an individual with a neurologic pathology
- Perform a complete and thorough neurologic exam
- Create a broad differential diagnosis for each individual seen and examined and choose the most likely diagnosis
- Formulate an assessment and an appropriate plan of action regarding the most common and most life threatening neurologic presentations
- Deliver a clear and thorough verbal presentation regarding neurologic assessment
- Produce clear and thorough documentation regarding neurologic assessment
- Communicate empathetically with patients and families
- Demonstrate professional characteristics as a member of a healthcare team

At the end of this rotation you will be able to perform these analyses:

- Identify symptoms that signify neurologic disease (including disturbances of consciousness, cognition, language, vision, hearing, equilibrium, motor function, somatic sensation)
- Identify symptoms of and discuss timely management of neurologic emergencies
- Differentiate between normal and abnormal findings on neurologic exam
- Localize the likely site in the nervous system where a lesion may produce patient's signs and symptoms
- Discuss the indication and interpretation of tests used in helping diagnose neurologic disease
- Research and review pertinent medical literature relevant to neurologic care
- Apply principles of medical ethics, socioeconomic issues, and public health policy to patient care.

Curriculum:

Each rotator will spend two weeks in the inpatient setting and two weeks in the outpatient setting. The inpatient setting will be separated into: 1) One week at Unity Hospital, and 2) One week at Rochester General Hospital. Rotators will report to the on call attending physician and also to the on call medical resident. Patients will be chosen for rotators to assess and follow over the course of their time on service. Rotators will also accompany the resident and attending to the emergency department to assess patients requiring acute neurologic care. Rotators will keep a log of diagnoses assessed and will present and write formal evaluations of these patients as below.

Rotators will spend 2 weeks in the outpatient setting between multiple locations. These locations can include Unity Ridgeway Medical Campus, Henrietta Medical Campus, Rochester General Hospital campus, Leroy campus. One week will be spent with clerkship director in a general neurology clinic. One week will be spent surveying multiple neurologic subspecialty clinics. Subspecialty clinics include: Stroke, Headache, Memory/Dementia, Epilepsy, Movement disorder, Physical Medicine and Rehab, and Neuromuscular clinics. The subspecialty clinic week can be flexible and tailored to a rotator's particular interest. Rotators will keep a log of diagnoses assessed and will present and write formal evaluation of these patients as below.

Below is the minimum number of neurologic cases to be seen during the 4-week rotation. Attendings will provide a signature (initials) and date following completion of each assessment/visit. Each rotator will prepare and complete both a verbal and written presentation on 3 of these cases (each from a different category). One verbal and written presentation will be completed at the end of week 2, 3, and 4 with the clerkship director. Feedback will be provided with the goal of improvement each week.

Conferences/Grand Rounds/Journal Club:

Rotators will be expected to attend all neurologic radiology conferences, journal clubs, grand rounds that occur during the course of their 4-week rotation.

Handbook:

Diagnostic Category	Minimum number of patients to be seen	Attending Signature(s) (Initial)
Seizure	3	
Stroke	3	
Headache	3	
Movement Disorder	2	
Memory/Cognitive Impairment	2	
Altered Mental Status	2	
Trauma	1	
Demyelinating Disease	1	
Neuropathy	1	
Chronic Pain	1	
"Dizzy"	1	

AAN Medical Student Educational Resources

<https://www.aan.com/tools-and-resources/medical-students/educational-resources/>

Neurologic Exam Templates

<http://neurologyresidents.com/notes-and-templates/neuro-exam-templates/>

Localize the likely site in the nervous system where a lesion may produce patient's signs and symptoms: (*)

- Cerebral cortical and subcortical structures
- Posterior fossa (brain stem and cerebellum)
- Spinal cord
- Anterior horn cell
- Nerve root/plexus
- Peripheral nerve (mononeuropathy, polyneuropathy, and mononeuropathy multiplex)
- Neuromuscular junction
- Muscle

Create a differential diagnosis with the following findings: (*)

- Acute, subacute, or episodic changes in mental status or level of consciousness
- Gradual cognitive decline
- Aphasia

- Headache or facial pain
- Neck or back pain
- Blurry vision or diplopia
- Dizziness
- Dysarthria or dysphagia
- Weakness (focal or generalized)
- Involuntary movements
- Numbness, paresthesia, or neuropathic pain
- Unsteadiness, gait disturbance, or falls

Formulate an assessment and an appropriate plan of action regarding the most common and most life threatening neurologic presentations (*)

- Acute stroke (ischemic or hemorrhagic) or TIA
- Acute vision loss
- Brain death
- CNS infection
- Encephalopathy (acute or subacute)
- Guillain-Barre syndrome
- Head trauma
- Increased intracranial pressure
- Neuromuscular respiratory failure
- Spinal cord dysfunction
- Status epilepticus
- Neuropathy (polyneuropathy, Bell's palsy, and/or Carpal tunnel, etc)
- Subarachnoid hemorrhage
- Alzheimer disease
- Epilepsy
- Essential tremor
- Headache (tension, migraine, cluster)
- Multiple sclerosis
- Myasthenia gravis
- Myopathy
- Parkinson disease

Communicate empathetically with patients and families (*)

- Establish rapport with patients.
- Work cooperatively with others.
- Establish sufficient visibility and rapport with residents and attendings to be fairly evaluated.
- Communicate in a way patients understand by avoiding medical jargon and checking back for understanding
- Contribute information effectively to the team in a clear and timely manner
- Identify social barriers to care and link patients to resources to address them.

Observation Medicine – Rochester General Hospital

Rotation Objective:

Students will become familiar with observation level medical diagnoses, and exhibit proficiency in recognizing and successfully managing common acute and chronic medical conditions in the observation medicine setting.

Rotation Overview:

APP Students will rotate with Advanced Practice Providers and Medical Students will rotate with MD's within the Observation department. They will be expected to see patients with the provider, sign-out to provider, and document their visits. This rotation will consist of a Day, Night, and Evening rotation for APP Students to expose the students to different providers, shifts, and experiences within the Observation Unit. Medical Students will follow the MD provider's schedules which are Days 7 am to 4 pm or 7 am to 7 pm.

Rotation Proficiencies:

- Create a thorough and well developed differential diagnosis
- Discuss with preceptor and design an in depth care plan with attention to detail
- Recommend and research up to date treatment plans and therapies
- Manage acute medical concerns with prompt and correct treatment
- Understand and interpret common medical laboratory tests as well as imaging studies and EKG's
- Complete accurate and comprehensive documentation for intake, rounding, and discharge

Rotation Expectations:

- Student will arrive on-time and prepared with appropriate dress code (white coat, black scrubs, **OR** business casual), medical supplies (stethoscope, reflex hammer, notebook, and pen/pencil), and identification badge (RGH and School).
- Student will be prepared for rotation by reviewing rotation materials provided by preceptor prior to arriving to the first day.
- Student will maintain professional demeanor and exhibit appropriate behavior during the entirety of the rotation in regards to staff, other students or training persons, and medical professionals.
- Students will alert preceptor immediately to any days that there may be a scheduling conflict or in case of any emergency, in which a day will need to be missed and later made up.

Medical Competencies:

- Students will attain proficiency in the understanding of below diagnoses, as well as pathophysiology and treatment plans by the completion of this rotation:
 - Abdominal pain
 - Abscess
 - Anemia
 - Asthma/COPD
 - Atrial Fibrillation/Atrial Flutter
 - Back Pain
 - Bite injuries
 - Cellulitis
 - Chest pain
 - Diverticulitis
 - DVT/PE
 - Fall/Weakness
 - Headache
 - Hyperglycemia/Hypoglycemia
 - Kidney Stone
 - Pharyngitis
 - Pneumonia
 - Pyelonephritis

- Closed Head Injury
- Congestive Heart Failure
- Syncope
- Electrolyte deficiencies

Schedule:

- Student will be provided with separate schedule upon start of rotation
- For all shifts, students are expected to arrive in the Provider office on 4200 five minutes before the scheduled time to be ready for sign-out.
- Students are expected to stay the entire shift, and attend all scheduled shifts unless previously discussed with Lead APP.
- Students will be expected to attend the monthly OBS Provider Meeting, OBS Quality Meeting, ED Team Meeting and ED M&M Meeting during the rotation.

Oncology – Rochester General Hospital

Description:

For the oncology aspect of the rotation the rotator will spend some days in the clinic seeing patients under the supervision of the attending, and other days in the inpatient setting seeing new consultations, follow-ups and rounding with the attending

Goals and Objectives:

On the Oncology consults rotation, rotators will become familiar in the workup, diagnosis and management of patients with solid tumors and lymphomas. Rotators will be able to review the various treatment options for each type of cancer. Rotators will learn about the management of neoplastic disorders of the lung, GI tract, breast, pancreas, liver, GU tract, Central Nervous system, head and neck, skin and cancer family syndromes, Hodgkin and non-Hodgkin lymphomas.

Exposure:

- Indications, dosing, administration and toxicities of multiagent chemotherapeutic protocols
- Combined modality therapy of malignancies
- Indications of indwelling access catheters for treatment
- Management of neutropenic fever
- Infection prevention and treatment in immunocompromised patients
- Indications of transfusions in cancer patients
- Recognition and management of paraneoplastic disorders
- Care and management of geriatric patients with malignancies
- Appropriate use of tumor markers
- Treatment of cancer-related pain

Orthopedics – Batavia**Description:**

Students will see patients in both ambulatory and surgical settings following their preceptor's schedule. All issues related to orthopedic care may be experienced during this elective.

Osteopathic Primary Care, Lifestyle Emphasis & Musculoskeletal Focus – Canandaigua Outpatient Site

Description:

This elective clinical rotation will highlight an osteopathic and lifestyle approach to commonly encountered primary care conditions in patients from a wide range of socioeconomic backgrounds. Osteopathic manipulative medicine treatments will be implemented as appropriate to facilitate healing, keeping in mind the interrelationship of structure and function in the role of prevention. The diagnosis, management, rehabilitation and return to play or work of patients of all ages with musculoskeletal conditions will be emphasized, while addressing the tenets of lifestyle medicine to include physical activity, diet, drugs, sleep, stress and relationships/purpose with regard to chronic disease treatment and prevention.

Lifestyle Medicine (LM) is a new medical specialty that uses evidenced-based techniques to prevent, treat and reverse lifestyle-related diseases like obesity, heart disease and diabetes, by addressing their root cause—unhealthy lifestyle habits! While LM can be practiced as a subspecialty, basic LM concepts and interventions should be in every doctor's tool kit as they benefit every patient and are applicable to nearly every specialty.

Goals/Learning Objectives of Rotation:

- Learn how to identify injury mechanisms, perform a thorough osteopathic and musculoskeletal examination and document appropriately
- Decide which imaging modalities are most appropriate in evaluation and know how to interpret results in the treatment of common musculoskeletal conditions
- Become familiar with osteopathic treatments in the primary care setting as well as interventional primary care procedures
- Practice preventative care in a patient-centered and culturally sensitive approach
- Understand how healthier habits can be used to treat, reverse and sometimes cure chronic lifestyle-related disease
- Demonstrate the ability to work with patients to improve lifestyle habits from a collaborative approach
- Evaluate your own lifestyle habits and start making changes that will help you live a longer, happier, healthier life!

Location:

Rochester Regional Health Family and Lifestyle Medicine office at 401 S Main Street, Suite 200, Canandaigua, NY 14424 (about a 30 minute drive from Rochester).

Instructors:

Jennifer Albrecht, DO, CAQSM, Osteopathic Primary Care and Sports Medicine and Kerry Graff, MD, Lead Lifestyle Medicine Physician at Rochester Regional Health

For more information on lifestyle medicine visit the American College of Lifestyle Medicine website at www.lifestylemedicine.org or check out PlantWise, a 48-minute documentary on using whole food, plant-based diets to reverse disease:
www.lifestylemedicine.org/PlantWise

Physical Medicine & Rehabilitation (PM&R) – Unity Hospital and Unity Outpatient Site

Description:

Physical Medicine and Rehabilitation (PM&R) is a specialty involved in the evaluation, management and treatment of a variety of medical conditions affecting the brain, spinal cord, nerves, and musculoskeletal system. The PM&R physicians, also known as physiatrists, are physicians who have completed a 4 year residency program in PM&R (1st year in IM or transitional). Physiatrists approach patient care in a goal oriented manner, help with management of impairments, and focus on improving quality of life. They may have further subspecialty certification or complete fellowships in Brain Injury Medicine, Electrodiagnostic Medicine, Hospice and Palliative Medicine, Neuromuscular Medicine, Pain Medicine, Pediatric Rehabilitation Medicine, Spinal Cord Injury Medicine, and/or Sports Medicine.

For more information, visit the American Academy of Physical Medicine & Rehabilitation website:

<https://www.aapmr.org/about-physiatry/about-physical-medicine-rehabilitation/what-is-physiatry>

Curriculum:

2 weeks inpatient at Unity Hospital, Golisano Rehab Unit

2 weeks outpatient at Unity at Ridgeway, 2655 Ridgeway Ave, Ste 420, Rochester, NY 14626

Goals and Objectives:

- Demonstrate general understanding of common neurologic, spine, and musculoskeletal disorders seen in a PM&R practice, including stroke, brain injury, spinal cord injury, spine and musculoskeletal disorders.
- Demonstrate general understanding of the role of inpatient rehabilitation medicine for neuromusculoskeletal disorders and non- neuromusculoskeletal diagnoses.
- Understand the comprehensive team approach in the specialty of Physical Medicine and Rehabilitation, and effectively interact with interdisciplinary team members.
- Exposure to outpatient PM&R clinic environment with involvement in concussion clinic, PM&R Pain clinic for non-interventional pain management, specialized interventions and procedures related to Outpatient Physical Medicine and Rehabilitation: Electrodiagnostic testing. Ultrasound guided musculoskeletal injections. Botox injections for spasticity. Interventional Pain and Spine procedures.

Plastic Surgery – Rochester General Hospital

Description:

Plastic Surgery is a surgical specialty involved in the surgical evaluation and treatment of many conditions. Typically, plastic surgeons have either completed a 5 year general surgery residency followed by a 1-3 year fellowship or completed an integrated residency of 6 years. The rotation includes a combination of operating room and floor time for consults. Students will gain experience in various aspects of plastic surgery including wound care, cosmetic surgery, and reconstructive surgery.

Rotation Expectations:

The rotation in plastic surgery will take place in the inpatient/operating room areas. The student will demonstrate knowledge in the intra-operative and post-operative management of surgical patients and surgical complications, demonstrate knowledge of plastic surgical principles and techniques and demonstrate knowledge of basic anesthesiology principles and techniques as utilized during the plastic surgery setting. Competencies specific to the rotation are as follows.

Patient Care:

- Demonstrates knowledge in the perioperative management of the plastic surgical patient, with an emphasis on common post-operative complications.

Medical Knowledge:

- Demonstrates knowledge of general anatomy and incision approaches as they relate to various plastic surgical procedures.
- Demonstrate knowledge in the properties of wound healing.

Practice Based Learning:

- Demonstrates knowledge of common surgical instrumentation and the ability to develop proper technique in their utilization.
- Demonstrates the ability to act as a well-integrated surgical assistant including proper retracting and tissue handling.
- Demonstrates knowledge and proficiency in both blunt and sharp dissection techniques including the use of scalpels, scissors, and electrocautery.
- Demonstrates knowledge of various suture materials and suture techniques used in plastic surgery.

Recommended Readings:

- Essentials for Students: Plastic Surgery
- Michigan Manual of Plastic Surgery by David Brown and Gregory H. Borschel
- Essentials of Plastic Surgery: A UT Southwestern Medical Center Handbook by Jeffrey E. Janis
- Plastic Surgery Emergencies: Principles and Techniques by Jamal M. Bullocks et al.

Podiatric Medicine & Surgery – Rochester General Hospital

Description:

Podiatric Medicine and Surgery is a specialty that focuses on prevention, diagnosis, and treatment of diseases, disorders, and injuries affecting the foot, ankle, and related structures of the leg. DPM's are the only physicians whom receive specialized medical/surgical training and board certification in the care of the lower extremity. At RGH the PMSR program focuses heavily on a hands on interactive learning approach to teaching. Students will have the opportunity to learn by doing. The RGH Podiatry Residents complete a 36 month (PMSR/RRA) Podiatric Medicine and Surgery Residency with a credential in Reconstructive Rearfoot/Ankle Surgery. Medical students will have the opportunity to expand their knowledge surrounding the field of Podiatry by experiencing first hand inpatient and outpatient care, both the surgical and non-surgical aspects of patient care. Medical students will be afforded the opportunity to experience the resident run podiatric clinic and take part in the weekly academic half day session which is a Podiatry Grand Rounds format.

Curriculum:

Inpatient/Outpatient Hospital Rotation: 4 weeks

Podiatry Clinic Experience: Monday/Thursday each week

Goals and Objectives:

- Exposure to both inpatient and outpatient treatment of all foot related pathologies. This will include a large emphasis on diabetic foot infection, ulcerations, and limb salvage procedures.
- Outpatient exposure to common diabetic foot pathology including mechanical issues, infections, neuromas etc.
- Experience in sports medicine treatment practices
- Learning when to treat patients in the office setting versus when it would be best to refer them to a Podiatric Office.

Preventative Medicine Rotation – WorkReady

Description:

WorkReady represents the combined employee and occupational health dept. for RRH. We offer experience across a wide range of clinical conditions. We deal with many private and public organizations in the local economy and most departments at RRH. Information technology plays an important role in daily operations. So does the interface with public health and state and federal agencies, compliance, reporting and surveillance.

Employee Health supports health and the work environment of employees at RRH. We carry out immunization and testing campaigns such as for Covid and Influenza. Employee health administers health checks for new employees and annual checks for all RRH employees. We provide initial care for work injuries and exposures. We are responsible for extensive reporting to state and federal agencies providing interesting insights into public reporting and surveillance systems. This includes the use of programs and tools to collect, analyze and report health information.

Occupational Health sees workers from public and private organizations in the community for injuries, exposures, fitness for duties, disability assessments, and other services. We work closely with the City of Rochester and its uniformed and non-uniformed departments. We also support some of their administrative duties such as Workers Comp Insurance oversight. We can offer medical insights into all clinical specialties and their short and long term effects on the work place.

A four week rotation consists of

- Participation in clinic activities, i.e. care for injured workers, pre hire assessments, surveillance exams for police, fire and other services on site as well as for instance at the Fire Station
- The student will learn assessment tools, such as checking vital signs and review of organ systems, medications, vaccinations and past medical histories.
- The student will be acquainted with digital patient management programs and learn how to access reporting and compliance tools for DOH, OSHA and the NYS Wocomp Board.
- The student will help to prepare and participate in the monthly internal education session.

Psychiatry Sub-I – St Mary’s Hospital Inpatient Psychiatry Unit

Duration:

4 weeks

Description:

This sub-internship in Psychiatry is a 4 week rotation whose aim is to reflect the breadth of knowledge, activities, and responsibilities of a psychiatry intern. You will be assigned to one of the teams on the inpatient psychiatry unit at St Mary’s hospital. You will be placed on a team consisting of a second year psychiatry resident and an attending psychiatrist. As a sub intern you will be assigned patients to follow with a 2nd year psychiatry resident and will be responsible for all of the tasks that go along with treating patients on an inpatient psychiatry unit including, but not limited to patient initial patient evaluations, follow-up interviews, collateral contacts, review of medical issues, treatment planning, observation and participation involvement in therapy groups on the unit and attending court hearings as is relevant. You will also be expected to attend resident teaching conference on Fridays at 11:30am and will be asked to present at least once during your 4 week sub internship.

Goals:

- Expand the basic understanding of psychiatry as a specialty area
- Demonstrate a general understanding of psychiatric illnesses that present on an inpatient psychiatry unit including, but not limited to major mood, psychotic and personality disorders
- Demonstrate a general understanding of treatment of major psychiatric illness that are treated on an inpatient psychiatry unit including, but not limited to major mood, psychotic and personality disorders
- Demonstrate and understand the importance of being part of and working with a multidisciplinary team

Pulmonary Disease and Critical Care Medicine

General Description:

Pulmonary disease and critical care medicine are two distinct subspecialties within internal medicine. In pulmonary medicine, students will see clinical knowledge and procedural techniques combined in diagnosing and managing respiratory conditions. In critical care medicine, students will be involved in the interdisciplinary management of conditions seen in all disciplines of internal medicine, in their most extreme stages. In the intensive care unit (ICU), intensivists work with other specialists to treat multi-organ-related conditions by applying aspects of internal medicine at its highest level in conjunction with mechanical life support and invasive procedures. This elective will allow students to engage in direct patient care and witness state-of-the-art procedures from both a pulmonary and critical care perspective. Pulmonary and critical care physicians require 3 years of internal medicine residency and 3 additional years of subspecialty training. The Department of Pulmonary and Critical Care Medicine at Rochester General Hospital provides educational experiences to clinical fellows, internal medicine residents, and medical school students under the direct supervision of attending physicians. Our elective welcomes all 3rd and 4th-year medical school students who express interest in learning more about the two subspecialties.

Curriculum:

- Pulmonary consult service (inpatient)- dates and duration of rotation flexible
- Medical ICU- dates and duration of rotation flexible

Medical students are welcome to attend weekly multidisciplinary conferences, including the Pulmonary Lectures Series, the Radiology Conference, the Tumor Board, the Pulmonary-Infectious Diseases Conference, the Board Review Lecture Series, the Journal Club, and hands-on point-of-care ultrasound classes.

Goals of Rotation:

- Enhance basic understanding of essential topics of pulmonary and critical care medicine
- Incorporate theoretical knowledge into evidence-based clinical practice
- Improve teamwork abilities with other healthcare providers

Contacts:

Please reach out to Dr. Zhang once you have decided to rotate with us for further instructions. Please feel free to reach out to us if there are any additional questions or concerns regarding this elective.

Qian (Steven) Zhang M.D.

Pulmonary and Critical Care Fellow Physician Rochester General Hospital

Email: qian.zhang2@rochesterregional.org Cell Phone (text preferred): 240-444-5021

Damanpaul Sondhi M.D.

Division Head of Pulmonary and Critical Care Rochester General Hospital

Email: damanpaul.sondhi@rochesterregional.org

Quality and Safety – Rochester General Hospital and Unity Hospital

Description:

The Quality and Safety Institute (QSI) at RRH is a multidisciplinary team of physicians, nurses, allied health professionals, and IT informaticians who work together on various initiatives regarding public health, infectious disease, compliance, clinical outcomes and safety.

Elective Rotation:

- Available for 3rd and 4th year medical students
- Rotation length is 4 weeks
- Available quarterly TS6&TS13

Curriculum:

- Quality and Safety rotation: 2 weeks
- Infection Prevention: 2 weeks

Goals and Objectives:

This rotation is designed to give an introduction and exposure to the different domains of informatics and their practical implications. At the completion of these elective, students should be able to:

- Describe basic Quality Improvement principles
- Identify key principles of preventing healthcare-associated infections
- Identify application of those Quality Improvement principles in a real life setting
- Define key concepts, such as:
 - patient safety
 - human factors impacting patient safety
 - systems and the impact of complexity on patient care
 - understanding and learning from errors, near-misses, and good catches
 - understanding and managing clinical risk
 - quality improvement methods
- Define the six dimensions of quality and safety in healthcare
- Recognize the role of multidisciplinary members of the QSI team

Sample Activities:

- Participate in Case Based Learning
- Assess and systematically address a problem previously identified in QI Elective I using quality improvement tools and
- Actively participate and/or lead the design and implementation of a quality improvement project to address that quality problem
- Complete a quality improvement project abstract and summary
- Perform policy reviews
- Participate in safety rounds
- Investigate a medical error or complaint, find its root causes, and propose solutions
- Participate in an epidemiologic investigation
- Research evidence-based approaches to minimizing risk of healthcare-associated infection

Radiation Oncology – Rochester General Hospital, Unity Hospital, Linden Oaks

Description:

Radiation oncology is the branch of medicine utilizing ionizing radiation in the treatment of cancer. Radiation oncologists are physicians who have completed training in radiation oncology in order to understand the biology, natural history, and management of different cancers, the role and application of radiation therapy in their treatment, and the underlying physics of radiation and its' effects on living tissues. They work together as part of a team that includes medical physicists, nurses, and technologists to provide care for patients who require radiotherapy. Rochester Regional Health is now offering electives in radiation oncology to students seeking to gain experience in the treatment of cancer in a multidisciplinary setting, with emphasis on radiation therapy.

The rotation will consist of 4 weeks of outpatient clinics with the assigned physician.

Goals of the Rotation

- Gain an understanding of the role of radiation in the treatment of common malignancies, how radiation fits in to multidisciplinary cancer care with surgery and medical oncology, and the limitations of radiation as a treatment modality
- Take a detailed history and perform a focused physical exam in oncology patients
- See patients on treatment, observe the side effects of radiation and learn the management of common treatment related effects
- Learn the management of oncologic emergencies such as spinal cord compression, SVC syndrome, and hemoptysis
- Understand the steps involved in getting the patient from consultation through simulation and treatment planning to the start of radiation therapy
- Attend weekly multidisciplinary tumor boards
- Attend daily planning rounds
- Follow at least one new patient each week through simulation and treatment planning to the start of treatment

Suggested Resources and Materials

Handbook of Evidence-Based Radiation Oncology 3rd edition

Introduction to Radiation Oncology powerpoint (to be provided at the start of the rotation)

Rheumatology – Canton-Potsdam Hospital

Description:

The rheumatology clinic at SLH is a rural rheumatology clinic that focuses on complex care across the rheumatology spectrum. This includes diagnosis and management of rheumatoid arthritis, lupus, scleroderma, crystal arthropathies, the various forms of vasculitis and myositis, and connective tissue disease-associated interstitial lung disease (CTD-ILD) and pulmonary arterial hypertension (CTD-PAH). Our goal is to keep as much patient care as possible local. In turn, the services we offer run the gamut from bread and butter rheumatology (such as RA management) to musculoskeletal ultrasound to an in-house CTD-ILD clinic. We welcome in particular students with an interest in both rural health and internal medicine, but are ultimately open to anyone with an interest in rheumatology.

Urgent Care – Rochester Wilson

Location:

Wilson Urgent Care
1425 Portland Avenue, Wilson Building, Rochester, NY, 14621

Description:

Urgent Care Medicine is a specialty involved in the provision of immediate medical services in an outpatient setting for the treatment of acute and chronic illness and injury. Although it does not typically engage in the continuity of medical care, it provides a convenient opportunity to obtain care for the community when a primary care physician is not readily available and not serious enough to warrant a hospital emergency room. Urgent Care does not hold its own scope of practice, but rather, spans the scope of practice between Urgent Care and all existing medical specialties that involve direct patient care while still collaborating with these specialty constituents. For this reason, providers skilled in urgent care have a broad and comprehensive fund of knowledge, as they are available to assess any condition that presents itself. This is what makes it so appealing. Through close communication with these providers, this course is designed to allow students to help build a strong foundation through patient-based learning experiences in handling urgent care situations through the evaluation, management and treatment of patients with straight forward to complex medical conditions.

Goal and Objectives:

Emphasis and the assessment of clinical competencies will be placed on knowledge and proficiency in the following areas:

- The diagnosis and management of acute urgent disorders.
- Evaluation of risk factors, and management of risk factors to prevent disease advancement if possible.
- To perform a condition-appropriate patient history and physical examination.
- Identification, indications and interpretation of appropriate diagnostic studies.
- Identify the first line therapy for common urgent care presentations.
- To appreciate the psychosocial issues that impact a patient's presenting complaint.
- To assess when a patient may need transfer to a higher level of care or referral to an ancillary service.

Urgent Care – St. Mary’s Campus

Location:

Walk-In Care Center at St. Mary’s Campus
65 Genesee Street, Rochester, NY 14611

Description:

Urgent Care Medicine is a specialty involved in the provision of immediate medical services in an outpatient setting for the treatment of acute and chronic illness and injury. Although it does not typically engage in the continuity of medical care, it provides a convenient opportunity to obtain care for the community when a primary care physician is not readily available and not serious enough to warrant a hospital emergency room. Urgent Care does not hold its own scope of practice, but rather, spans the scope of practice between Urgent Care and all existing medical specialties that involve direct patient care while still collaborating with these specialty constituents. For this reason, providers skilled in urgent care have a broad and comprehensive fund of knowledge, as they are available to assess any condition that presents itself. This is what makes it so appealing. Through close communication with these providers, this course is designed to allow students to help build a strong foundation through patient-based learning experiences in handling urgent care situations through the evaluation, management and treatment of patients with straight forward to complex medical conditions.

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- To perform a condition-appropriate patient history and physical examination.
- Identification, indications and interpretation of appropriate diagnostic studies.
- Identify the first line therapy for common urgent care presentations.
- To appreciate the psychosocial issues that impact a patient’s presenting complaint.
- To assess when a patient may need transfer to a higher level of care or referral to an ancillary service.

