COM850 Radiology

Sponsoring Department or Unit: Department of Medical Education and Affiliated Institutions
Number of Students: 9
Course Director: TBD

General Description: This is a 2 to 4 weeks rotation in which the students will rotate thru various departments of radiology (weekly): X-ray, CT, MRI, US and PET. During these rotations they will be expected to learn the standardized dictation approach and be able to interpret common radiographs and CT studies. Special attention will be on reviewing anatomy and linking imaging abnormalities to a differential of possible diagnoses. Students are expected to attend and participate in all scheduled educational activities at the host institution.

COM851 Renal

Sponsoring Department or Unit: Department of Medical Education and Affiliated Institutions
Number of Students: 9
Course Director: TBD

General Description: This elective rotation is a four (4) weeks structured clinical experience under direct supervision of a nephrology attending designed to provide the student experience in diagnosing, treating and caring for patients with renal conditions. This clerkship will provide the student opportunity for in-depth reading of the observed renal pathologies and therapeutic options. Students are expected to attend and participate in all scheduled educational activities at the host institution. Students will learn how to perform a comprehensive history and physical examination in a timely manner and will gain experience in generating differential diagnoses, assessments, and diagnostic and treatment plans for many common renal conditions. It is expected they will gain a better understanding of renal dialysis and the challenges the patients face on a daily basis. They will also learn what it is like to be on a consulting team.
COM852 Endocrinology
Sponsoring Department or Unit: Department of Medical Education and Affiliated Institutions
Number of Students: 9
Course Director: TBD

General Description: This elective rotation is a four (4) weeks structured clinical experience under direct supervision of an endocrinology attending designed to provide the student experience in diagnosing, treating and caring for patients with endocrine conditions. Students will also be exposed to endocrine emergencies that require hospitalization as well as chronic endocrine outpatient issues. This intensive month will provide an opportunity for the students to do more in-depth reading about the various endocrine conditions they see. Students are expected to attend and participate in all scheduled educational activities at the host institution. Students will learn how to perform a comprehensive history and physical examination in a timely manner and will gain experience in generating more specialized differential diagnoses, assessments, and diagnostic and treatment plans.

COM853 Cardiology
Sponsoring Department or Unit: Department of Medical Education and Affiliated Institutions
Number of Students: 9
Course Director: TBD

General Description: This elective rotation is a four (4) weeks structured clinical experience under direct supervision of a cardiology attending designed to provide the student experience in diagnosing, treating and caring for patients with both acute and chronic cardiac conditions. Students will also be exposed to inpatient medicine as part of a consultation team. Students are expected to attend and participate in all scheduled educational activities at the host institution. Students will learn how to perform a comprehensive history and physical examination in a timely manner and will gain experience in generating differential diagnoses, assessments, and diagnostic and treatment plans at a level higher than in a 3rd year clerkship. They will have the added opportunities to see pacemaker placements, stress testing and angiography as appropriate for the referred patients.

COM854 Pulmonary
Sponsoring Department or Unit: Department of Medical Education and Affiliated Institutions
Number of Students: 9
Course Director: TBD

General Description: This elective rotation is a four (4) weeks structured clinical experience under direct supervision of a pulmonary attending designed to provide the student experience in the evaluation and management of various acute and chronic pulmonary disorders. Students will also be exposed to both in-patient as well as outpatient management of chronic pulmonary conditions and are expected to attend and participate in all scheduled educational activities at the host institution. Students will learn how to perform a comprehensive history and physical examination in a timely manner and will gain experience in generating differential diagnoses, assessments, and diagnostic and treatment plans specific for routine conditions seen by a pulmonologist. During this rotation they should have an opportunity to hone their physician diagnostic skills, radiographic and CT interpretive skills as well as
observe at least one bronchoscopy.

**COM855 Gastroenterology**

*Sponsoring Department or Unit:* Department of Medical Education and Affiliated Institutions  
*Number of Students:* 9  
*Course Director:* TBD

**General Description:** This elective rotation is a 2 to 4 weeks structured clinical experience under direct supervision of a gastroenterology attending designed to provide the student experience in diagnosing, treating and caring for patients with GI and liver conditions. The students will work with a GI attending on both inpatient as well as outpatient rounds. They will observe a variety of endoscopic procedures both screening as well as diagnostic. They should learn more about the intestinal response to food allergens as well as autoimmune GI disorders. They should also have a greater opportunity to see a variety of liver conditions and gain a better understanding of the diagnostic evaluation for gastrointestinal and liver disorders.

**COM856 Dermatology**

*Sponsoring Department or Unit:* Department of Medical Education and Affiliated Institutions  
*Number of Students:* 9  
*Course Director:* TBD

**General Description:** This elective rotation is a four (4) weeks structured clinical experience under direct supervision of a dermatology attending designed to provide the student experience in diagnosing, treating and caring for patients with skin issues. Students will observe simple dermatologic procedures and have an opportunity for more focused reading in this field. They are expected to gain a better understanding of adolescent acne issues and therapies, rash types and treatments, as well gain a more comprehensive understanding of pharmacologic products used for dermatologic conditions. Some exposure to cosmetic dermatology and dermatopathology is expected as well as exposure to laser therapy, photodynamic therapy, tattoo removal, allergy testing and cryosurgery.

**COM857 Rheumatology/Immunology**

*Sponsoring Department or Unit:* Department of Medical Education and Affiliated Institutions  
*Number of Students:* 9  
*Course Director:* TBD

**General Description:** This elective rotation is a four (4) weeks introductory, structured clinical experience under direct supervision designed to provide the student experience diagnosing, treating and caring for patients with rheumatologic disorders. The student will gain experience in: obtaining an expanded history pertinent to musculoskeletal and rheumatic disorders, performing a comprehensive musculoskeletal exam, developing a reasonable differential diagnosis for both monoarticular and polyarticular presentations of arthritis. The student will also acquire and understanding of: the usefulness and limitations of immunologic testing, the use of oral, parenteral and intra-articular corticosteroids, nonsteroidal anti-inflammatory agents and immunosuppressive agents in rheumatic diseases. The student will become familiar with and be able to instruct patients in the use of the main modalities of physical therapy and joint protection. In addition the student will have an opportunity to perform, under supervision, arthrocentesis and gain experience in the interpretation of synovial fluid.
Clinically oriented teaching methods may include: Assignment of limited co-management responsibilities under supervision, participation in clinic visits, daily patient rounds and conferences, and supervised and critiqued clinic work-ups of patients admitted to the service.

**COM858 Pathology**

**Sponsoring Department or Unit:** Department of Medical Education and Affiliated Institutions  
**Number of Students:** 9  
**Locations:** Mercy San Juan, Methodist Sacramento, Mercy General, Woodland Memorial, Kaiser South Sacramento, Kaiser Roseville, Kaiser North Valley.  
**Course Director:** TBD  

**General Description:** This four (4) weeks elective is an integrated pathology clerkship, embracing both anatomic and clinical pathology. Students may accompany faculty on fine needle aspirations, where they are taught how to properly perform aspiration biopsies on superficial lesions, and subsequently may observe the specimen preparation and microscopic interpretation. They are invited to accompany faculty when frozen section consultations are required, and follow all aspects of this undertaking. They observe and may assist in the preparation of surgical specimens, subsequently taking part in the microscope sign-out sessions with faculty. An exposure to aspects of clinical pathology is obtained in clinical chemistry, microbiology and blood transfusion medicine by observation of the clinical laboratories and one-on-one interactions with faculty in these areas. The four-week clerkship, in part, depends upon, and is modified, taking into account the future specialty choice of the medical students (if known), so that they may obtain the maximum benefit and exposure to cases related to their future training. At the conclusion of their rotation, students are required either to present an interesting case, or to submit a clinico-pathologic paper.

**COM859 Geriatrics**

**Sponsoring Department or Unit:** Department of Medical Education and Affiliated Institutions  
**Number of Students:** 9  
**Locations:** Mercy San Juan, Methodist Sacramento, Mercy General, Woodland Memorial, Kaiser South Sacramento, Kaiser Roseville, Kaiser North Valley.  
**Course Director:** TBD  

**General Description: Length?** During the Geriatrics elective, students will actively participate in the ongoing, daily care of older patients who have a wide variety of acute and chronic illnesses and abnormal physical findings. Each student will be paired with a primary geriatric physician mentor who will provide clinical teaching and ongoing feedback to the student. Additionally, each student will be responsible for his or her own panel of patients at a skilled nursing facility. Throughout the clerkship students will work with a variety of geriatric focused health professionals as part of the interdisciplinary care team. This includes nurse practitioners, therapists, certified nursing assistants, and social workers. It is expected that throughout the course of the 4-week clerkship students will be involved with and responsible for admission assessment, discharge planning, ongoing care and management, writing orders, and working with families.

**COM860 Global Health**

**Sponsoring Department or Unit:** Department of Medical Education and Affiliated Institutions  
**Number of Students:** 9  
**Locations:** Mercy San Juan, Methodist Sacramento, Mercy General, Woodland Memorial, Kaiser South Sacramento, Kaiser Roseville, Kaiser North Valley.  
**Course Director:** TBD  

**General Description:** This four (4) weeks clinical rotation takes place ideally in a developing country or in other clinical settings related to global health all over the world. The goal of this clinical rotation is
to enable the advanced fourth-year medical student to experience the practice of medicine in an environment other than his/her own. This exposure allows for the practical application of theoretical knowledge to different cultural and ethnic groups while working under varied conditions affected by the economics, traditions, religious beliefs, limited resources and geography of the site. Additionally, valuable experience is gained through participation in clinical work with local health practitioners.

COM861 Anesthesiology

**Sponsoring Department or Unit:** Department of Medical Education and Affiliated Institutions  
**Number of Students:** 9  
**Locations:** Mercy San Juan, Methodist Sacramento, Mercy General, Woodland Memorial, Kaiser South Sacramento, Kaiser Roseville, Kaiser North Valley.  
**Course Director:** TBD

**General Description:** This elective rotation of four (4) weeks is intended to enable students to observe or participate in, under the supervision of a faculty member, resident or anesthetist, the following patient care scenarios: delivery of a general anesthetic to adult and pediatric patients, utilization of regional anesthesia as a primary surgical anesthetic, explanation of anesthetic risks to a patient, preoperative evaluation of a patient’s suitability for general anesthesia. Students will be given the opportunity to perform the following procedures under the supervision of a faculty member, resident or anesthetist: placement of an intravenous catheter, management of a patient airway, including mask ventilation and either LMA or endotracheal tube placement. At the end of the elective, students are expected to understand the anatomy, physiology, and pharmacology relevant to anesthetic induction, maintenance, and emergence.

COM862 Hematology/Oncology

**Sponsoring Department or Unit:** Department of Medical Education and Affiliated Institutions  
**Number of Students:** 9  
**Locations:** Mercy San Juan, Methodist Sacramento, Mercy General, Woodland Memorial, Kaiser South Sacramento, Kaiser Roseville, Kaiser North Valley.  
**Course Director:** TBD

**General Description:** This elective rotation of four (4) weeks is intended to be a structured clinical experience under direct supervision designed to provide the students experience diagnosing, treating and caring for adult patients with hematologic and oncolgic diseases. The clinical experience will allow the student to gain additional knowledge and experience in the following areas: morphology (anatomy?), physiology, and biochemistry of blood, bone marrow, lymphatic tissue and spleen, etiology, epidemiology, natural history, diagnosis, pathology, staging and management of a wide variety of neoplastic and hematologic disorders, chemotherapeutic drugs, assessment of tumor imaging by CT, MRI and nuclear imaging techniques, multi-agent chemotherapy protocols and combined modality therapies, management and care of in-dwelling venous catheters, management of neutropenia and immune-compromised patients, hematologic and oncologic effects of HIV and psychosocial management of patients with hematologic and neoplastic disorders. Students are expected to participate in didactic methods assigned during the rotation including: reading assignments, lectures, case-oriented presentations, and formal clinical presentations by medical faculty. Clinically oriented teaching methods may include: Assignment of limited co-management responsibilities under supervision, participation in clinic visits, daily patient rounds and conferences, and supervised and critiqued clinic work-ups of patients admitted to the service.
COM863 Infectious Disease
Sponsoring Department or Unit: Department of Medical Education and Affiliated Institutions
Number of Students: 9
Course Director: TBD

General Description: This elective rotation is a four (4) weeks structured clinical experience under direct supervision designed to provide the student experience diagnosing, treating and caring for patients with infectious diseases. The clerkship will provide patient and laboratory experiences in a setting of preceptored learning to facilitate development of skills in: history-taking and physical diagnosis of infectious diseases, use of the laboratory and other diagnostic resources in infectious diseases, clinical management of infectious diseases, and the basic principles of therapy in regard to selection and monitoring of antibiotics and antiviral agents. Students are expected to attend and participate in all scheduled educational activities at the host institution. Clinically oriented teaching methods during the rotation may include: assignment of limited co-management responsibilities under supervision, participation in clinic visits, daily patient rounds and conferences, supervised and critiqued clinic work-ups of patients admitted to the service, and assigned, case-oriented reading case presentations.

COM866 Orthopedic Surgery
Sponsoring Department or Unit: Department of Medical Education and Affiliated Institutions
Number of Students: 9
Locations: Mercy San Juan, Kaiser Permanente South Sacramento, Kaiser Permanente Roseville, Kaiser Permanente North Valley, Community Preceptor Office
Course Director: TBD

General Description: This elective rotation is a four (4) weeks structured clinical experience under direct supervision of an orthopedic surgeon designed to provide the student experience in diagnosing, treating and caring for patients with orthopedic conditions. Students are expected to attend and participate in all scheduled educational activities at the host institution as well as participate in the OR as determined by the supervising surgeon. Students will learn how to perform a comprehensive history and physical examination in a timely manner and will gain experience in generating differential diagnoses, assessments, and diagnostic and treatment plans for a variety of common orthopedic conditions. The students should also have an opportunity to participate in orthopedic trauma cases as well as follow the patients thru post-operative recovery. The goal is to provide the student an opportunity for focused reading in the field of orthopedics as well as allow them to advance in patient management according to interest and skill level.

COM867 Trauma Surgery
Sponsoring Department or Unit: Department of Medical Education and Affiliated Institutions
Number of Students: 9
Locations: Mercy San Juan, Kaiser Permanente South Sacramento, Kaiser Permanente Roseville, Kaiser Permanente North Valley, Community Preceptor Office
Course Director: TBD

General Description: This elective rotation is a four (4) weeks structured clinical experience under direct supervision of a trauma surgeon designed to provide the student experience in diagnosing, treating and caring for trauma patients in both the acute as well as recovery setting. Students are expected to attend and participate in all scheduled educational activities at the host institution as well as participate in the OR as determined by the supervising surgeon. Students will learn how to perform a targeted
history and physical examination in a timely manner and will gain experience in identifying patients in need of urgent trauma surgery. The goal is to provide the student an opportunity for focused reading in the field of trauma surgical as well as allow them to advance in patient management according to interest and skill level.

COM868 ENT Surgery

Sponsoring Department or Unit: Department of Medical Education and Affiliated Institutions
Number of Students: 9
Locations: Mercy San Juan, Kaiser Permanente South Sacramento, Kaiser Permanente Roseville, Kaiser Permanente North Valley, Community Preceptor Office
Course Director: TBD

General Description: This elective rotation is a four (4) weeks structured clinical experience under direct supervision of an ENT surgeon designed to provide the student experience in diagnosing, treating and caring for patients with ears, nose and throat issues. Students are expected to attend and participate in all scheduled educational activities at the host institution as well as participate in the OR as determined by the supervising surgeon. Students will learn how to perform a targeted history and physical examination in a timely manner and will gain experience in identifying patients common ENT conditions requiring surgery. Students will advance in their surgical participation dependent on their interest and skill level.

COM869 Plastic Surgery

Sponsoring Department or Unit: Department of Medical Education and Affiliated Institutions
Number of Students: 9
Locations: Mercy San Juan, Kaiser Permanente South Sacramento, Kaiser Permanente Roseville, Kaiser Permanente North Valley, Community Preceptor Office
Course Director: TBD

General Description: This elective rotation is a four (4) weeks structured clinical experience under direct supervision of a plastic surgeon designed to provide the student experience in diagnosing, treating and caring for patients in need of cosmetic or reconstructive surgery. Students are expected to attend and participate in all scheduled educational activities at the host institution as well as participate in the OR as determined by the supervising surgeon. Students will learn how to perform a pre-operative evaluation in a timely manner and will gain a better understanding of the capabilities of plastic surgery in both cosmetic and reconstructive surgery as well as in wound healing.

COM870 GI Surgery

Sponsoring Department or Unit: Department of Medical Education and Affiliated Institutions
Number of Students: 9
Locations: Mercy San Juan, Kaiser Permanente South Sacramento, Kaiser Permanente Roseville, Kaiser Permanente North Valley, Community Preceptor Office
Course Director: TBD

General Description: This elective rotation is a four (4) weeks structured clinical experience under direct supervision of a GI surgeon designed to provide the student experience in diagnosing, treating and caring for patients with GI and Liver issues. Students are expected to attend and participate in all scheduled educational activities at the host institution as well as participate in the OR as determined by the supervising surgeon. Students will learn how to perform a targeted history and physical examination in a timely manner and will gain experience in identifying patients common GI and Liver conditions requiring surgery. Students will advance in their surgical participation dependent on their interest and skill level.
COM871 Urology

Sponsoring Department or Unit: Department of Medical Education and Affiliated Institutions
Number of Students: 9
Locations: Mercy San Juan, Kaiser Permanente South Sacramento, Kaiser Permanente Roseville, Kaiser Permanente North Valley, Community Preceptor Office
Course Director: TBD

General Description: This elective rotation is a 2 to 4 weeks structured clinical experience under direct supervision of a urology surgeon designed to provide the student experience in diagnosing, treating and caring for patients with urologic conditions. Students are expected to attend and participate in all scheduled educational activities at the host institution as well as participate in the OR as determined by the supervising surgeon. Students will learn how to perform a targeted history and physical examination in a timely manner and will gain experience in identifying patient’s common urologic conditions, and better understand when patients require surgical intervention. It is expected the students will also gain a better understanding of the complications following urologic surgery.

COM872 Thoracic Surgery

Sponsoring Department or Unit: Department of Medical Education and Affiliated Institutions
Number of Students: 9
Locations: Mercy San Juan, Kaiser Permanente South Sacramento, Kaiser Permanente Roseville, Kaiser Permanente North Valley, Community Preceptor Office
Course Director: TBD

General Description: This elective rotation is a four (4) weeks structured clinical experience under direct supervision of a thoracic surgeon designed to provide the student experience in diagnosing, treating and caring for patients with cardiac and pulmonary conditions requiring surgical intervention. Students are expected to attend and participate in all scheduled educational activities at the host institution as well as participate in the OR as determined by the supervising surgeon. Students will learn how to perform a targeted history and physical examination in a timely manner and will gain experience in identifying patient’s common cardiac conditions requiring surgery. Students will advance in their surgical participation dependent on their interest and skill level.

COM873 Vascular Surgery

Sponsoring Department or Unit: Department of Medical Education and Affiliated Institutions
Number of Students: 9
Locations: Mercy San Juan, Kaiser Permanente South Sacramento, Kaiser Permanente Roseville, Kaiser Permanente North Valley, Community Preceptor Office
Course Director: TBD

General Description: This elective rotation is a 2 to 4 weeks structured clinical experience under direct supervision of a vascular surgeon designed to provide the student experience in diagnosing, treating and caring for patients vascular conditions requiring surgical intervention. Students are expected to attend and participate in all scheduled educational activities at the host institution as well as participate in the OR as determined by the supervising surgeon. Students will learn how to perform a targeted history and physical examination in a timely manner and will gain experience in identifying patient’s common vascular conditions that could benefit from surgical intervention. Students will advance in their surgical participation dependent on their interest and skill level.
COM900 Basic, Clinical, Translational Research

Sponsoring Department or Unit: Department of Medical Education and Affiliated Institutions
Number of Students: 9
Locations: TBD
Course Director: TBD

General Description: This elective rotation is a structured clinical experience for 2 to 8 weeks under direct supervision of a research mentor. Students are expected to actively engage in a research project including attending laboratory meetings. Students are expected to gain a better understanding of laboratory procedures, scientific process, statistical analysis and scientific writing. At least part of this can be done in our lab.