



M4 MANUAL AND COURSE CATALOG

Phases C – Year 4

Table of Contents

SECTION I: M4 ROTATION POLICIES	6
SECTION II: M4 ELECTIVE OPERATIONAL PROCESS.....	8
SECTION III: M4 CNUCOM CONTACT INFORMATION	11
SECTION IV: AAMC MEDICAL SPECIALTIES	12
SECTION V: CATALOGUE OF CNUCOM ELECTIVES AND SUB-INTERNSHIP	14
ALLERGY AND IMMUNOLOGY	14
AAI 810 Allergy/Asthma/Immunology	14
AAI 812 Allergy & Immunology	14
ANESTHESIA	14
ANE 810 Anesthesia	14
ANE 811 The Art and Practice of Anesthesiology and Pain Medicine	15
DERMATOLOGY	15
DER 810 Dermatology	15
DER 811 Dermatology	15
EMERGENCY MEDICINE	16
EME 801 Emergency Medicine Sub-I	16
EME 810 Emergency Medicine	16
FAMILY MEDICINE	16
FAM 801-1 Family Medicine Sub-I	16
FAM 801-2 Family Medicine Sub-I	16
FAM 801-3 Family Medicine Sub-I	17
FAM 801-4 Family Medicine Sub-I	17
FAM 810 Family Medicine Elective.....	17
FAM 811 Outpatient Family Medicine Urban Setting.....	18
INTERNAL MEDICINE	18
INT 801 Internal Medicine Sub-I.....	18
INT 802 Inpatient Medicine Sub-I.....	18
INT 813 Internal Medicine Elective.....	19
INT 814 Internal Medicine Elective.....	19
INT 815 Internal Medicine Outpatient Elective	19
INT 816 Outpatient Internal Medicine Primary Care	20
CARDIOLOGY	20
CAR 810 Cardiology Clinical Rotation	20
CAR 811-1 Cardiology Elective.....	20

CAR 811-2 Cardiology Elective	21
CAR 811-3 Cardiology Elective	21
ENDOCRINOLOGY	21
END 810 Endocrinology	21
GASTROENTEROLOGY	22
GST 810 Gastroenterology	22
GST 811 Gastroenterology	22
HEMATOLOGY AND ONCOLOGY	22
HEM 810 Hematology and Oncology	22
INFECTIOUS DISEASE	22
INF 810-1 Infectious Disease	22
INF 810-2 Infectious Disease	23
INF 812 California Northstate University of Medicine M4 Infectious Diseases Clerkship	23
PALLIATIVE MEDICINE	23
INT 810-1 Palliative Medicine	23
INT 810-2 Palliative Medicine	24
INT 811 Introduction to Palliative Medicine	24
INT 812 Palliative Medicine and Hospice Medicine	24
PULMONARY	25
PUL 801 Pulmonary & Critical Care Medicine Sub-I	25
PUL 810 Pulmonary & Critical Care	25
PUL 811 Pulmonary & Critical Medicine	25
PUL 812 Pulmonary & Critical Care & Sleep Medicine	25
RENAL	26
REN 810-1 Nephrology	26
REN 810-2 Nephrology	26
REN 810-3 Nephrology	26
RHEUMATOLOGY	26
RHE 810-1 Rheumatology	26
RHE 810-2 Rheumatology	27
SPORTS MEDICINE	27
SPM 814 First Degree Care Sports Medicine	27
SPM 815 Sports Medicine (Not currently offered)	27
NEUROLOGY	28
NEU 810 Clinical Neurosciences Elective	28

NEU 811 Clinical Neurology Elective	28
NEU 813 Pediatric Neurology Elective.....	28
NEU 814 Pediatric Neurology Elective with Clinical Neurology /subspecialty option.....	28
NEU 815 Pediatric Epilepsy/Neurophysiology - University of Bristol (Not currently offered).....	29
NEUROSURGERY	29
NSG 880S Neurosurgery	29
OBSTETRICS AND GYNECOLOGY.....	30
OBG 801 Obstetrics/Gynecology Sub-I	30
OBG 810 Clinical OB-GYN Elective	30
OPHTHALMOLOGY	30
OPH 810 Ophthalmology Clerkship.....	30
OPH 811 Ophthalmology.....	31
ORTHOPEDIC SURGERY	31
ORT 880S Ortho Spine	31
ORT 881S Orthopedic Surgery	31
ORT 882S Orthopedic and Podiatry	31
OTOLARYNGOLOGY - ENT	32
OTO 813 Otolaryngology Elective	32
OTO 814 Pediatric Otolaryngology	32
OTO 881S Otolaryngology - Head and Neck Surgery	32
OTO 882S Head and Neck Surgery	33
PHYSICAL MEDICINE & REHABILITATION.....	33
PMR 810-1 Physical Medicine and Rehabilitation (PM&R).....	33
PMR 810-2 Physical Medicine and Rehabilitation (PM&R).....	33
PEDIATRICS	34
PED 801 Pediatrics Sub-I	34
PED 810 Pediatric Cardiology.....	34
PED 815 Pediatric Intensive and Inpatient Care.....	34
PED 816 Medicine - Pediatrics.....	35
PED 817 Pediatric Hematology-Oncology	35
PATHOLOGY.....	35
PTH 810 Pathology.....	35
PLASTIC SURGERY	35
PLS 801S UC Davis Plastic Surgery Acting Internship	35
PLS 880S Plastic Surgery	36

PSYCHIATRY	36
PSY-M 810 Psychiatry Elective	36
PSY-M 811 Psychiatry Elective	36
PSY M-830 Child and Adolescent Psychiatry	37
RADIOLOGY	37
RAD 810-1 Radiology	37
RAD 810-2 Radiology	37
RAD 811-1 Interventional Radiology	38
RAD 811-2 Interventional Radiology	38
RAD 812 In-house Radiology Elective	39
RAD 816 Nuclear Medicine, Molecular Imaging and Theranostics	39
RAD 817 Dignity Hospital Radiology	39
RAD 818 Neuroradiology	40
SURGERY	40
SUR 801S Surgery Sub-I	40
SUR 881S Head and Neck Surgery	40
SUR 882S Trauma Surgery	41
CAR 880S Cardiovascular Surgery	41
CAR 881S Cardiothoracic Surgery	41
UROLOGY	41
INTUR 810 Urology Elective	41
INTERDISCIPLINARY ELECTIVES	42
MED 810 OSCE Program Assistance	42
COM 901 Honors Medical Research	42
COM 903 Leadership	42
COM 904 Healers Art	43
HLT 810 Wellness - Leadership, Healers Art, Mindfulness and Compassionate Conversations	43
HLT 812 Clinical Nutrition	43

SECTION I: M4 ROTATION POLICIES

The current policies for the M4 year is as follows:

1. 1 week of clinical rotation = 1 credit unit (except for TA electives)
2. Total of **31** M4 credit units required for graduation that includes minimum of 1 sub-internship.
3. Sub-internship rotations earn **1.5 credit units/week**. Maximum allowable sub-internships: **3**. **Please keep in mind that that there is a 12 credit unit limit for a given specialty (see #5).**
4. Sub-internship can be completed at an “away” site.
5. Maximum credit for a specialty: **12 credit units**. Section III of this manual has the AAMC Medical Specialties categories outlined and this will assist the student in understanding how specialty limit is defined. Hence if a student selects rotation in Cardiology, Pulmonary and Infectious disease this will be considered 12 units in the Internal Medicine and thus reach the maximum allowed.
6. Maximum away rotations: **4**
7. If you are considering an **International** away rotation you must discuss this first with Dr. Yip or Dr. Khatri to seek approval.
8. 2 courses cannot be undertaken at the same time (except: Research and Mindfulness, Healer's Art, and Leadership). To get credit for research at the 40 hrs/week, there will not be enough time to perform a clinical rotation.
9. **4 weeks** of electives (mindfulness, leadership and healer's art) completed prior to the M4 year can count towards the 31-week graduation requirement
10. Deferral of M3 core clerkships to M4 is not allowed. M3 Clerkships in the M4 year will occur for remediation purposes (students should complete the remediation clerkship before beginning M4 rotations). OB/GYN, Pediatrics, Surgery, IM, Psych, and FM clerkships need to be completed prior to embarking on VSLO (formerly VSAS) away electives. Neuro and EM are not considered core clerkships. Neuro and EM electives may be deferred in preparation for applying to residency.
11. Students should complete the remediation clerkship before beginning M4 rotations
12. The final M4 flight plan (rotations providing 31 credits) for graduation has to be submitted by **August 1st**. This allows ample time for Registrar to conduct a preliminary degree audit.
13. Students can do extra rotations that fall outside the above limitations (i.e. extra “specialty” rotations or extra “away” rotations) BUT they will not receive graduation credits for these rotations.

14. Students must be enrolled in an approved elective (see M4 Elective Catalogue) to receive credits
15. Research Elective Limit: **4 units**. Students need to submit a detailed research plan to CNUCOM that requires review and approval.
16. To provide some flexibility in the schedule during the interview months, several Teaching Assistant (TA) M4 rotations have been designed.
17. For OSCE TA and for this elective **up to 4 units** can be earned. You must sign up for the sessions and notify the preceptor if you are withdrawing from any sessions. Note that 10 hours of direct teaching is equal to 1 credit unit.
18. **IMPORTANT information for Residency interview time from October through January:**
We have let your preceptors know that you may need to miss some time from electives in order to get the interviews done. Please communicate clearly with your preceptors about your interview schedule. Please minimize the number of days that you'll be missing from your electives to go to your interviews. You will be allowed to miss up to **4 days/elective for 4 week electives and 2 days for 2 week electives** but your preceptors will discuss ways to make up the days that you are missing to make sure that you receive proper credits for the elective. You will need to forward the documentation confirming your interview schedule to our Clerkship Coordinator Team so they can alert your preceptors that we are also aware of your interviews. These are case by case and if your preceptors have any questions, please direct them to us.
19. **PLEASE complete your Preceptor and Institution evaluation within 1 week of the rotation.**
Once you have completed your evaluation, Linda Inthongpradith [Phone: (916) 686-7465; Fax: (916) 686-7310; Email: La.Inthongpradith@cnsu.edu] will release your evaluation by the Preceptor.
20. The point of contact for all M4 related questions is Aaron Dang [Phone: (916) 686-7380; Fax: (916) 686-7310; Email: aaron.dang@cnsu.edu].
21. During the M4 year we will arrange monthly/bi-monthly (according to the need) **M4Connect Webinar** to communicate back any of your rotation concerns. Dr. Khatri will be present at these sessions. If you need to have a specific clerkship director present at this webinar please inform Aaron or Linda.

SECTION II: M4 ELECTIVE OPERATIONAL PROCESS

A structured process is being established for the M4 electives/sub-internship which is as follows:

1. A 13-block system has been created for the next academic year 2019-2020.
2. Preceptors will be requested to complete the 2019-2020 timetable and select the months they wish to offer electives and how many students they will accept.
3. In Jan/Feb 2019 this database of available electives will be released to the students to view
4. When the M4 Elective schedule is opened for enrollment, student will be allowed to select 4 home rotations
5. These rotations will be on a “first come first basis”
6. Waiting list will be established
7. Please use the M4 Elective Planner to develop your M4 rotation calendar

M4 Elective Planner (2019-2020)


Last Name: _____ First Name: _____ Student ID: _____

Faculty Advisor: _____ Pathway: _____

Week of	Scheduled Program/Course	Week of	Scheduled Program/Course
June 10		December 15	
June 17		December 23	
June 24		December 30	
July 1		January 6	
July 8		January 13	
July 15		January 20	
July 22		January 27	
July 29		February 3	
August 5		February 10	
August 12		February 17	
August 19		February 24	
August 26		March 2	
September 2		March 9	
September 9		March 16	
September 16		March 23	
September 23		March 30	
September 30		April 6	
October 7		April 13	
October 14		April 20	
October 21		April 27	
October 28		May 4	
November 4		May 11	
November 11		May 18	
November 18			
November 25			
December 2			
December 9			

All graduation requirements must be completed at least 30 days prior to graduation.

8. Please complete an (see below) Elective selection Form and email it to M4@cnsu.edu. She will then forward the contact email and phone number for the Preceptor.



CNUCOM 4th Year Elective Course Add Form
(Please fill out completely – incomplete forms will not be accepted)

Do not approach clinical sites in order to make schedule changes. All requests must be submitted through Clerkship Coordinators for verification and approval. *Requests must be submitted 4 weeks prior to rotation start dates otherwise application will be denied.*

Please submit completed forms to: M4@cnsu.edu

NAME:	DATE:
EMAIL:	PHONE #:
DESIRED PATHWAY:	

COURSE(S) TO BE ADDED

START DATE	END DATE	COURSE TITLE	COURSE NUMBER	LOCATION

California Northstate Administration	
<input type="checkbox"/> Approved <input type="checkbox"/> Denied	Signature: _____ Date: ___/___/___

California Northstate University College of Medicine
 9700 West Taron Drive • Elk Grove, California 95757 • Phone: 916-686-7300 • FAX: 916-686-7310

9. Please complete an (see below) Elective selection Form and submit it to M4@cnsu.edu.
10. Plug in the VSLO away rotations in your calendar
11. The final M4 flight plan (rotations providing 31 credits) for graduation has to be submitted by August 1st. This allows ample time for Registrar to conduct a preliminary degree audit.
12. PLEASE SUBMIT THIS PLAN AS A TYPE WRITTEN DOCUMENT.

13. IT IS ALSO IMPORTANT TO COMPLETE THE M4 ELECTIVE PASSPORT

M4 Elective Passport

Last Name: _____ First Name: _____ Student ID: _____
Faculty Advisor: _____

Coursework Date Completed:

All Preclinical Coursework Passed _____

M3 Core Clerkship Courses Completed (FM / IM / OB-GYN / Peds / Psych / Surg) _____

EM Clerkship Completed _____

M3 Neuro Clerkship Completed _____

ERAS Application Date Completed:

Identify Three Letter of Recommendation Authors (EM: 2 Sides) _____

Final CV Reviewed with Faculty Advisor _____

Final Personal Statement Reviewed with Faculty Advisor _____

Review Application File with Faculty Advisor by **August 15** _____

Submit ERAS Application and Letters of Recommendation by September 15 _____

Attend an Interview Preparation Workshop _____

MSPE Date Completed:

Submit "Noteworthy Characteristics" Response to Jamie Nguyen by **February 1** _____

Submit "Personal Assessment" Response to Jamie Nguyen by **February 1** _____

Schedule an MSPE Appointment with Faculty Advisor by **August 1** _____

Review MSPE draft with Faculty Advisor by **August 15** _____

Examinations Date Completed:

Step 2 CS Test Date Scheduled: _____

Step 2 CK Test Date Scheduled: _____

Step 2 CS Test Passed _____

Step 2 CK Test Passed _____

Career Advising Meeting Log

Date of Meeting	Topics Discussed	Student Signature	Faculty Signature

14. As electives get added, this manual will be updated. The title of this catalogue will have the edited date.

15. There is a standard syllabus template created for a M4 Elective. Please contact Linda Inthongpradith for a copy. It has standard learning objectives already pre-filled. PLEASE do not remove these approved Course Learning Objectives (CLO). You may add specialty specific objectives.

SECTION III: M4 CNUCOM CONTACT INFORMATION

1. Peter W. Yip, M.D., M.P.H.

Chair, Department of Clinical Medicine

Associate Professor of Internal Medicine & Occupational Medicine

peter.yip@cnsu.edu

Ph (direct): (916) 686-8522

Ph: 916-686-7400 ext 122

Fax: 916-686-7310

2. Vijay P. Khatri, MBChB, MBA, FACS

Director, M4 Elective and Internship

Professor of Surgery and Oncology

vijay.khatri@cnsu.edu

Ph (direct): (916) 686-7850

3. Aaron Dang

Clerkship Coordinator

aaron.dang@cnsu.edu

Ph: (916) 686-7380

Fax: (916) 686-7310

4. Linda Inthongpradith

Clerkship Coordinator

La.Inthongpradith@cnsu.edu

P: (916) 686-7300 *Ext. 7465*

Fax: (916) 686-7310

5. Jamie Nguyen

Administrative Assistant

Jamie.Nguyen@cnsu.edu

Ph: (916) 686-7689

Fax: (916) 686-7310

SECTION IV: AAMC MEDICAL SPECIALTIES

AAI: ALLERGY AND IMMUNOLOGY
CLINICAL & LABORATORY IMMUNOLOGY

ANE: ANESTHESIOLOGY
ADULT CARDIOTHORACIC
ANESTHESIOLOGY
CRITICAL CARE MEDICINE
OBSTETRIC ANESTHESIOLOGY
PAIN MEDICINE
PEDIATRIC ANESTHESIOLOGY
PALLIATIVE MEDICINE

DER: DERMATOLOGY
DERMATOPATHOLOGY
PROCEDURAL DERMATOLOGY

EME: EMERGENCY MEDICINE
MEDICAL TOXICOLOGY
PEDIATRIC EMERGENCY MEDICINE
SPORTS MEDICINE
PALLIATIVE MEDICINE

FAM: FAMILY MEDICINE
GERIATRIC MEDICINE
SPORTS MEDICINE
FAMILY PRACTICE
GERIATRIC MEDICINE
PALLIATIVE MEDICINE

INT: INTERNAL MEDICINE
ADVANCED HEART FAILURE &
TRANSPLANT CARDIOLOGY
CARDIOVASCULAR DISEASE
CLINICAL CARDIAC ELECTROPHYSIOLOGY
CRITICAL CARE MEDICINE
ENDOCRINOLOGY, DIABETES &
METABOLISM
GASTROENTEROLOGY
GERIATRIC MEDICINE
HEMATOLOGY
HEMATOLOGY & ONCOLOGY
INFECTIOUS DISEASE
INTERVENTIONAL CARDIOLOGY
NEPHROLOGY
ONCOLOGY
PULMONARY DISEASE
PULMONARY DISEASE & CRITICAL CARE
MEDICINE

RHEUMATOLOGY
SPORTS MEDICINE
TRANSPLANT HEPATOLOGY
INTERNAL MEDICINE-PEDIATRICS
PALLIATIVE MEDICINE

MEG: MEDICAL GENETICS
BIOCHEMICAL GENETICS
MOLECULAR GENETIC PATHOLOGY

NSG: NEUROSURGERY
ENDOVASCULAR SURGICAL
NEURORADIOLOGY

NEU: NEUROLOGY
CHILD NEUROLOGY
CLINICAL NEUROPHYSIOLOGY
ENDOVASCULAR SURGICAL
NEURORADIOLOGY
NEUROMUSCULAR MEDICINE
PAIN MEDICINE
SLEEP MEDICINE
PALLIATIVE MEDICINE

OBG: OBSTETRICS & GYNECOLOGY
FEMALE PELVIC MEDICINE &
RECONSTRUCTIVE SURGERY
OPHTH: OPHTHALMOLOGY
OPHTHALMIC PLASTIC & RECONSTRUCTIVE
SURGERY
PALLIATIVE MEDICINE

ORTH: ORTHOPEDIC SURGERY
ADULT RECONSTRUCTIVE ORTHOPEDICS
FOOT & ANKLE ORTHOPEDICS
HAND SURGERY
MUSCULOSKELETAL ONCOLOGY
ORTHOPEDIC SPORTS MEDICINE
ORTHOPEDIC SURGERY OF THE SPINE
ORTHOPEDIC TRAUMA
PEDIATRIC ORTHOPEDICS

OTO: OTOLARYNGOLOGY
OTOLOGY - NEUROTOLOGY
PEDIATRIC OTOLARYNGOLOGY
HEAD AND NECK SURGERY

PATH: PATHOLOGY-ANATOMIC & CLINICAL

BLOOD BANKING - TRANSFUSION MEDICINE
CHEMICAL PATHOLOGY
CYTOPATHOLOGY
FORENSIC PATHOLOGY
HEMATOLOGY
MEDICAL MICROBIOLOGY
NEUROPATHOLOGY
PEDIATRIC PATHOLOGY

PED: PEDIATRICS

ADOLESCENT MEDICINE
CHILD ABUSE PEDIATRICS
DEVELOPMENTAL-BEHAVIORAL PEDIATRICS
NEONATAL-PERINATAL MEDICINE
PEDIATRIC CARDIOLOGY
PEDIATRIC CRITICAL CARE MEDICINE
PEDIATRIC EMERGENCY MEDICINE
PEDIATRIC ENDOCRINOLOGY
PEDIATRIC GASTROENTEROLOGY
PEDIATRIC HEMATOLOGY-ONCOLOGY
PEDIATRIC INFECTIOUS DISEASES
PEDIATRIC NEPHROLOGY
PEDIATRIC PULMONOLOGY
PEDIATRIC RHEUMATOLOGY
PEDIATRIC SPORTS MEDICINE
PEDIATRIC TRANSPLANT HEPATOLOGY
PALLIATIVE MEDICINE

PMR: PHYSICAL MEDICINE & REHABILITATION

NEUROMUSCULAR MEDICINE
PAIN MEDICINE
SPINAL CORD INJURY MEDICINE
SPORTS MEDICINE
PALLIATIVE MEDICINE

PLS: PLASTIC SURGERY

CRANIOFACIAL SURGERY
HAND SURGERY

PSY: PSYCHIATRY

ADDICTION PSYCHIATRY
CHILD & ADOLESCENT PSYCHIATRY
FORENSIC PSYCHIATRY
GERIATRIC PSYCHIATRY
PALLIATIVE MEDICINE

RONC: RADIATION ONCOLOGY

RAD: RADIOLOGY

ABDOMINAL RADIOLOGY
CARDIOTHORACIC RADIOLOGY
ENDOVASCULAR SURGICAL NEURORADIOLOGY
MUSCOSKELETAL RADIOLOGY
NEURORADIOLOGY
NUCLEAR RADIOLOGY
PEDIATRIC RADIOLOGY
VASCULAR & INTERVENTIONAL RADIOLOGY
NUCLEAR MEDICINE
PALLIATIVE MEDICINE

SUR: SURGERY

COLON & RECTAL SURGERY
HAND SURGERY
PEDIATRIC SURGERY
SURGICAL CRITICAL CARE
VASCULAR SURGERY
CARDIOTHORACIC SURGERY
THORACIC SURGERY
PEDIATRIC CARDIOTHORACIC SURGERY
SURGICAL ONCOLOGY
TRANSPLANT SURGERY
TRAUMA SURGERY
SURGICAL CRITICAL CARE
ACUTE CARE SURGERY
PALLIATIVE MEDICINE

URO: UROLOGY

PEDIATRIC UROLOGY

SECTION V: CATALOGUE OF CNUCOM ELECTIVES AND SUB-INTERNSHIP

ALLERGY AND IMMUNOLOGY

AAI 810 Allergy/Asthma/Immunology

Number of Students: 1/Month

Locations: Kaiser South Sacramento

Course Director: TBD

Offered as: 4-week rotation

General Description: Office based allergy practice that will help the learner to manage allergic diseases from rhinitis, asthma, food allergies, primary immunodeficiency, angioedema, and anaphylaxis. Additional areas for longer options (if multiple rotation lengths are offered) include spirometry, skin testing, allergy injections, drug desensitization, and care of anaphylaxis. Demonstrate knowledge pertaining to the management of allergic diseases including rhinitis, asthma, food allergies, primary immunodeficiency, angioedema and anaphylaxis.

AAI 812 Allergy & Immunology

Number of Students: 2-4/month

Locations: Allergy Medical Group of Northern Area – Sacramento Clinic; Roseville Clinic

Course Director: Sunil P. Perera, MD., Mudita Gogna, MD.

Offered as: 4-week rotation

General Description: To orient students how to obtain problem focused history from patients with atopic disease focused physical exam, basic information of following diseases, and learning about basic atopic diseases, allergic rhinitis, sinusitis, asthma, urticarial, angioedema, food allergy/intolerance, drug allergy, insect allergy, environmental sensitivity. Identify focused historical and physical exam findings in patients with atopic disease. Demonstrate knowledge about basic atopic diseases, allergic rhinitis, sinusitis, asthma, urticarial, angioedema, food allergy/intolerance, drug allergy, insect allergy, and environmental sensitivity. Apply guidelines for management and follow up of basic atopic diseases. Clinical experiences includes face to face interaction with patients with atopic disease.

ANESTHESIA

ANE 810 Anesthesia

Number of Students: 1/Month

Locations: Kaiser South Sacramento

Course Director: TBD

Offered as: 4-week rotation

General Description: Students seeking to increase their knowledge of anesthesiology and perioperative medicine will actively participate in the anesthetic care of surgical patients. Progressive and increased responsibility for pre-, intra-, and postoperative patient management will be assumed by the student under the direction of an anesthesiologist. The student will participate fully in the perioperative anesthetic care of a healthy patient during uncomplicated surgery. Students will participate in the department's didactic conferences; reading is required to meet learning objectives.

ANE 811 The Art and Practice of Anesthesiology and Pain Medicine

Number of Students: 6/Month

Locations: Sutter Roseville Medical Center

Course Director: Anthony Kong, MD

Offered as: 4-week rotation

General Description: Introduction to the field of anesthesiology and pain medicine. Understand basic pre-operative principles to optimize patients for surgery. Able to weigh the risks and benefits of drugs used and actions taken for the patients. Development of confidence, rapport, professionalism and teamwork in the operative arena. Understand the meaning of “Primum non nocere.” and the concept of evidence based medicine Clinical skills include basic airway management, physiological monitoring, sedation and pain management. Knowledge of basic anesthetic agents, intra-operative and pain medications. Critical review of basic and clinical anesthesia literature. Exposure to different anesthetic techniques from lines placement to regional and neuraxial anesthesia. Techniques in stabilizing an unstable patient. Students will be assigned to an attending anesthesiologist each day and may rotate to another anesthesiologist depending on cases and anesthetic techniques used. Special emphasis is given to airway management, pre-operative evaluation, intra-operative and post-operative care of patients. Students will rotate to the ambulatory surgery centers, hospital inpatient surgical and obstetric department. Exposure to ICU and trauma patients will be included when students work alongside an on-call trauma anesthesiologist when available.

DERMATOLOGY

DER 810 Dermatology

Number of Students: 1/Month

Locations: Kaiser South Sacramento

Course Director: Jasdeep Sharma, MD

Offered as: 4-week rotation

General Description: This elective is customized to the specific interests of the 4th year medical student interested to learn more about medical surgical dermatology. The student will be exposed to medical dermatology encounters with patients having primary skin disease, to include immunobullous diseases, contact dermatitis, connective tissue diseases, congenital skin disease, skin cancer, and infectious diseases, as well as medically-complicated patients displaying dermatologic manifestations of systemic disease or therapy. The goal of the dermatology clerkship is to propose to students the clinical aspects of dermatology. Students will develop skills in history taking and physical exam, case presentation, diagnostic decision making, use of appropriate diagnostic testing, and management if common disorders of the skin, hair, and nails.

DER 811 Dermatology

Number of Students: TBD

Locations: Kaiser Permanente - Fresno

Course Director: Alan Blankenship, MD, PhD, FAAD, DABD

Offered as: 4-week rotation

General Description: This elective is customized to the specific interests of the 4th year medical student interested to learn more about medical and surgical aspects of dermatology. The student will be exposed to medical dermatology encounters with patients having primary skin disease, to include immunoblot diseases, contact dermatitis, connective tissue diseases, congenital skin disease, skin cancer, and infectious diseases, as well as

medically-complicated patients displaying dermatologic manifestations of systemic disease or therapy. Will work with board-certified Dermatologists directly.

EMERGENCY MEDICINE

EME 801 Emergency Medicine Sub-I

Number of Students: 2/Month

Locations: Multiple

Course Director: Leonard Ranasinghe MD, PhD and James Lee MD

Offered as: 4-week rotation

General Description: To provide an opportunity for students who have an interest in pursuing a career in emergency medicine or a related specialty to function at an intern-like capacity in an emergency department with expanded experience and responsibility. To provide additional exposure to the diverse spectrum of clinical problems encountered in the emergency department, with emphasis on direct patient management.

EME 810 Emergency Medicine

Number of Students: 1/Month

Locations: Kaiser South Sacramento

Course Director: TBD

Offered as: 4-week rotation

General Description: Exposure of the medical student to patients with complaints covering all age and all subspecialties who present to the Emergency Department. Will have first contact responsibility to perform a history and physical exam on each of his/her patients. Will discuss each case with an Emergency Department physician prior to ordering lab work, x-rays, medicines or consultation. Will discuss each case with an Emergency Department physician prior to patient's treatment and disposition. Will be actively involved in patient's education concerning discharge instruction (prescription, home care, etc.), and appropriate physician follow up.

FAMILY MEDICINE

FAM 801-1 Family Medicine Sub-I

Number of Students: 1/Month

Locations: Forest Hill Medical Center

Course Director: Blaise DeSouza, MD

Offered as: 2-4 week rotation

General Description: Demonstrate an effective approach to the wellness visit for a patient of any age or gender. Develop the skills to acquire historical information, perform a physical examination and to communicate such findings with clinical reasoning skill. Demonstrate an effective approach to the hospitalized patient. Demonstrate an effective approach to the patient presenting to the emergency department.

FAM 801-2 Family Medicine Sub-I

Number of Students: 1/Month

Locations: Western Sierra Medical Clinic

Course Director: Christina Lasich, MD

Offered as: 2-4 week rotation

General Description: Understand the principles of family medicine care. Understand the role of Family Medicine physicians within any health care system. Demonstrate an effective approach to the evaluation and initial management of acute and chronic illnesses commonly seen in an outpatient office setting. Demonstrate an effective approach to the wellness visit for a patient of any age or gender. Develop the skills to acquire historical information, perform a physical examination and to communicate such findings with clinical reasoning skill.

FAM 801-3 Family Medicine Sub-I

Number of Students: 2/Month

Locations: Kaiser Hospital, Walnut Creek

Course Director: Chantal L. Morrison DO

Offered as: 4-week rotation

General Description: Demonstrate an effective approach to the evaluation and initial management of acute and chronic illnesses commonly seen in an outpatient office setting. Demonstrate an effective approach to the wellness visit for a patient of any age or gender. Discuss the principles of family medicine care. Develop the skills to acquire historical information, perform a physical examination and to communicate such findings with clinical reasoning skill. Gather information, formulate reasonable differential diagnoses, and plans for initial evaluation and management of common presentation encountered in the outpatient office setting. Manage follow-up visit for patients presenting with one or more chronic illnesses. Demonstrate competency in the elicitation of the history and performance of the physical examination. Demonstrate competency in understanding evidence-based health promotion/disease prevention plans for patients of any age and either gender. Discuss the role of Family Medicine physicians within any health care system.

FAM 801-4 Family Medicine Sub-I

Number of Students: 1/Month

Locations: Kaiser Permanente, Antioch CA

Course Director: Maung Wai, M.D., FAAFP

Offered as: 4-week rotation

General Description: Demonstrate an effective approach to the evaluation and initial management of acute and chronic illnesses commonly seen in an outpatient office setting. Demonstrate an effective approach to the wellness visit for a patient of any age or gender. Develop the skills to acquire historical information, perform a physical examination and to communicate such findings with clinical reasoning skill. Discuss the principles of family medicine care. Gather information, formulate reasonable differential diagnoses, and plans for initial evaluation and management of common presentation encountered in the outpatient office setting. Manage follow-up visit for patients presenting with one or more chronic illnesses. Demonstrate competency in the elicitation of the history and performance of the physical examination. Demonstrate competency in understanding evidence-based health promotion/disease prevention plans for patients of any age and either gender. Discuss the role of Family Medicine physicians within any health care system.

FAM 810 Family Medicine Elective

Number of Students: 1/Month

Locations: Elevation Physicians

Course Director: Jeffrey Hill, DO

Offered as: 4-week rotation

General Description: Demonstrate an effective approach to the evaluation and initial management of acute and chronic illnesses commonly seen in an outpatient office setting. Demonstrate an effective approach to the wellness visit for a patient of any age or gender. Develop the skills to acquire historical information, perform a

physical examination and to communicate such findings with clinical reasoning skill. Discuss the principles of family medicine care. Gather information, formulate reasonable differential diagnoses, and plans for initial evaluation and management of common presentation encountered in the outpatient office setting. Manage follow-up visit for patients presenting with one or more chronic illnesses. Demonstrate competency in the elicitation of the history and performance of the physical examination. Demonstrate competency in understanding evidence-based health promotion/disease prevention plans for patients of any age and either gender. Discuss the role of Family Medicine physicians within any health care system.

FAM 811 Outpatient Family Medicine Urban Setting

Number of Students: 1/Month

Locations: Avicenna Medical Clinic, Toronto, ON

Course Director: Reza Ghobadian, MD

Offered as: 6-week rotation

General Description: Demonstrate an effective approach to different types of patients to address patient-physician relationship in a greater detail. Perform various dermatologic and musculoskeletal procedures such as joint injections. Apply the required knowledge, skills, and attitude to develop an effective patient-physician rapport. Apply the required knowledge and skills to formulate accurate medical diagnoses and prioritize management options. Apply the required knowledge and skills to interpret diagnostic imaging studies, and perform different types of injections and dermatologic procedures routinely utilized in primary care.

INTERNAL MEDICINE

INT 801 Internal Medicine Sub-I

Number of Students: 2/Month

Locations: Highland Hospital—Alameda Health System

Course Director: Archana Sridhar, MD and Jennifer Hughes, MD

Offered as: 4-week rotation

General Description: Students will be able to gather a medical history, perform a physical examination, interpret common diagnostic tests, prioritize a differential diagnosis, and recommend and execute a management plan for common in-patient internal medicine patient presentations. Students will be able to organize and communicate their clinical thinking both in the form of written notes and oral presentations. Students will be able to communicate and collaborate in an inter-professional team of other healthcare providers, out-patient providers, consultants, RNs, and ancillary staff. Students will be able to communicate effectively with patients and caregivers. Students will transition patients safely across the healthcare system.

INT 802 Inpatient Medicine Sub-I

Number of Students: 1/Month

Locations: Kaiser South Sacramento

Course Director: Gary Chu, MD

Offered as: 4-week rotation

General Description: The major goal of the Medicine Sub internship is to construct the clinical environment for the senior student to develop inpatient case management responsibilities in the broad field of internal medicine that will allow confident transition to resident level responsibilities in all disciplines. The student will be directly supervised by faculty attending. Procedures required by the patient, will be performed by the student depending on experience and safety. Students will be required to keep a log of their patients, listing dates seen and diagnoses. After completing this course, the student should be able to: A. Perform a comprehensive history and

physical exam for the purpose of evaluation and management of multiple patient care problems B. Write effective hospitalization orders, including diagnostic tests and medications C. Recognize acute care medical problems, as well as ethical and managed care issues D. Obtain basic technical skills suitable to subinternship level of training E. Develop a post-discharge, aftercare plan F. Coordinate support services, including social work activities, nursing home transfers, and clinic visits. G. Perform responsible internal medical care management decisions. H. Introduction to the field of cross covering patients in a two hundred plus beds hospital during afterhours.

INT 813 Internal Medicine Elective

Number of Students: 6/Month

Locations: Multiple

Course Director: Zahid Iqbal, MD

Offered as: 4-week rotation

General Description: Students will assume responsibilities quite similar to those of an intern, although with fewer patients. The student will be a member of a general medicine ward service consisting of an attending physician, residents, interns, and usually one "third year" student. Attending Rounds are made daily. Demonstrate proficiency in history taking and physical examination, present it in a concise and well-organized format, and document the encounter in the EMR. Develop differential diagnoses of common presenting complaints. Demonstrate knowledge of the natural history of disease. Develop and Discuss evidence-based management plan and associated order plan. Demonstrate recognition and therapy of medical emergencies. Outline indications and interpretations of commonly ordered tests. Demonstrate proficiency with medical procedures such as nasogastric tube placement, venipuncture, lumbar puncture, thoracentesis, paracentesis, etc. Demonstrate medical record keeping (e.g., data collection and recording, appropriate format for writing consultations). Provide oral presentations of clinical cases. Demonstrate team approach and utilization of allied health personnel.

INT 814 Internal Medicine Elective

Number of Students: TBD

Locations: Lincoln, Rhode Island

Course Director: Hugo M. Yamada, MD

Offered as: 4-week rotation

General Description: Demonstrate knowledge in the management of chronic disease. Outline recommended adult screening (colon cancer, breast cancer, diabetes, etc.). Demonstrate a strong physician-patient relationship for continuity of care. Demonstrate ability to administer care to a diverse patient population. Outline management of patients at all stages of adulthood (young adults, adult, and geriatric).

INT 815 Internal Medicine Outpatient Elective

Number of Students: 2/Month

Locations: Prima Medical Group, San Rafael, CA

Course Director: Joseph Habis, MD

Offered as: 2-week rotation

General Description: Students will be able to gather a medical history, perform a physical examination, interpret common diagnostic tests, prioritize a differential diagnosis, and recommend and execute a management plan for common in-patient internal medicine patient presentations. Students will be able to organize and communicate their clinical thinking both in the form of written notes and oral presentations. Students will be able to communicate and collaborate in an inter-professional team of other healthcare providers, out-patient providers, consultants, RNs, and ancillary staff. Students will be able to communicate effectively with patients and caregivers. Students will transition patients safely across the healthcare system.

INT 816 Outpatient Internal Medicine Primary Care

Number of Students: 2/Month

Locations: Chinese Hospital and Clinics, Daly City

Course Director: Dr. Aung Kyaw S. Maung

Offered as: 4-6-week rotation

General Description: The major goal of this elective is to construct the clinical environment for the senior students to develop outpatient management responsibilities in the broad field of medicine that will allow confident transition to resident level responsibilities in all disciplines. The students will be directly supervised by faculty attending. Procedures required by the patient, will be performed by the student depending on experience and safety. After completing this course, the student should be able to: A. Perform a comprehensive history and physical exam for the purpose of evaluation and management in an outpatient clinical setting. B. Gather information, formulate differential diagnoses, and propose plans for the initial evaluation and management of patients with common presentations. C. Manage follow-up visits with patients having one or more common chronic diseases. D. Recognize acute care medical problems, as well as ethical and managed care issues E. Demonstrate competency in advanced elicitation of history, communication, physical examination, and critical thinking skills. F. Obtain basic technical skills suitable for the level of training G. Perform responsible medical care management decisions.

CARDIOLOGY

CAR 810 Cardiology Clinical Rotation

Number of Students: 2/Month

Locations: Sutter Medical Center, Sacramento

Course Director: John Chin, MD

Offered as: 2-6 week rotation

General Description: Students will be exposed to a wide range of cardiology experiences including inpatient consultation and procedures, as well as advanced heart failure and transplant clinical committee meetings, and outpatient office setting. They will be expected to have some initiative and ask questions and as such will “get out of it what they put into it.”

CAR 811-1 Cardiology Elective

Number of Students: 2/Month

Locations: Chinese Hospital and Clinics, Daly City

Course Director: Aung Kyaw S. Maung, MD

Offered as: 2-6-week rotation

General Description: The major goal of this elective is to construct the clinical environment for the senior students to develop outpatient management responsibilities in the broad field of medicine that will allow confident transition to resident level responsibilities in all disciplines. The students will be directly supervised by faculty attending. Procedures required by the patient, will be performed by the student depending on experience and safety. After completing this course, the students should be able to: A. Perform a comprehensive history and physical exam for the purpose of evaluation and management in an outpatient clinical setting. B. Gather information, formulate differential diagnoses, and propose plans for the initial evaluation and management of patients with common presentations. C. Manage follow-up visits with patients having one or more common chronic diseases. D. Recognize acute care medical problems, as well as ethical and managed care issues E. Demonstrate competency in advanced elicitation of history, communication, physical examination, and critical

thinking skills. F. Obtain basic technical skills suitable for the level of training G. Perform responsible medical care management decisions.

CAR 811-2 Cardiology Elective

Number of Students: 1/Month

Locations: Kaiser South Sacramento

Course Director: TBD

Offered as: 4-week rotation

General Description: Student will work with faculty attending to evaluate and manage cardiac patients in both an outpatient and inpatient setting. Students will be introduced to reading EKG's, echo, and observe cardiac cauterization and transesophageal echo. To become familiar with management of patients with heart failure, myocardial infarction, arrhythmia, etc. and to provide medical students with experience in addressing and managing patients with cardiac issues.

CAR 811-3 Cardiology Elective

Number of Students: TBD

Locations: SMG Cardiology – Sutter Medical Center - Sacramento

Course Director: Sailesh Shah, MD., Malcom McHenry, MD.

Offered as: 4-week rotation

General Description: Diagnosis and therapy of common cardiac diseases. Fundamentals of cardiac anatomy and physiology – working knowledge of common cardiac disease states – cardiac pharmacology interpretation of cardiac diagnostic studies (ECG, ECHO, Stress testing, and Nuclear Imaging) – cardiac history and physical examination. 12 lectures: ECG, ECHO, coronary anatomy and physiology, methods for evaluating cardiac disease, valvular heart disease, guideline: lipids, hypertension, risk factors, arrhythmia including ablation therapy, atrial fibrillation, peripheral vascular disease (arterial and venous), devices including resynchronization therapy, CAD diagnosis and treatment, treatment of CHF.

ENDOCRINOLOGY

END 810 Endocrinology

Number of Students: 2/Month

Locations: Sutter Medical Center - Sacramento

Course Director: William Cushard, MD

Offered as: 2-4 week rotation

General Description: Understand real life experiences of an endocrinologists and learn the clinical utilities and techniques related to endocrinology and metabolism. Describe the disease process in patients by integration of clinical findings (history and physical) with laboratory tests. Explain the pathogenesis and pathophysiology of diseases of the pituitary, thyroid, parathyroid, adrenal, pancreas (endocrine), and reproductive organs. Outline the function of the endocrine organ and explain the metabolism of their hormones and their effects on the body. Develop adequate experience with the use of insulin, thyroid hormones, corticosteroids, and other related therapeutic agents. Develop adequate experience in endocrine related surgery and diagnostic procedures such as thyroid needle biopsy, vascular ultrasound in diabetic patients, and bone mineral density testing.

GASTROENTEROLOGY

GST 810 Gastroenterology

Number of Students: TBD

Locations: Mercy San Juan Medical Center

Course Director: Kuldip Sandhu M.D. FACC AGAF

Offered as: 4-week rotation

General Description: Students will gain experience and knowledge about the specialty of Gastroenterology and the conditions that specialists in this field are involved in diagnostic, management and treatment of. Demonstrate the pertinent aspects of the history and physical exam findings in patients with gastroenterological conditions. Explain the appropriate evaluative steps for patients with gastroenterological symptoms Illustrate knowledge about common gastroenterological diseases and their treatment and management.

GST 811 Gastroenterology

Number of Students: TBD

Locations: Kaiser Morse

Course Director: Linda Lee, MD

Offered as: 4-week rotation

General Description: Students will gain experience and knowledge about the specialty of Gastroenterology and the conditions that specialists in this field are involved in diagnostic, management and treatment of. Demonstrate the pertinent aspects of the history and physical exam findings in patients with gastroenterological conditions. Explain the appropriate evaluative steps for patients with gastroenterological symptoms Illustrate knowledge about common gastroenterological diseases and their treatment and management.

HEMATOLOGY AND ONCOLOGY

HEM 810 Hematology and Oncology

Number of Students: TBD

Locations: Hematology and Oncology Associates of Northern California

Course Director: Mansoor Javeed, MD

Offered as: 4-week rotation

General Description: Approach to a patient with hemonc ailments, history taking, relevant physical exam, interpretation of common blood tests, reviewing smears if needed, discussing imaging results and making a sound provisional diagnosis. Outline the pertinent history and physical exam considerations in patients with hematologic and oncologic diseases. Demonstrate knowledge about patients with hematology and oncology related diseases. Interpret common blood test results and their indications. Demonstrate knowledge about blood smear findings.

INFECTIOUS DISEASE

INF 810-1 Infectious Disease

Number of Students: 1/Month

Locations: Kaiser South Sacramento

Course Director: TBD

Offered as: 4-week rotation

General Description: The student will be able to: 1. Understand the pathophysiology of common infectious diseases 2. Understand the clinical presentation and diagnostic approach to patients with Infectious Diseases 3. Understand the approach to management and the use of antimicrobials or antivirals in patients with infectious diseases. To show an understanding of how to identify, diagnose and treat various bacterial, viral, fungal infections. Infer how to diagnose and treat various orthopedic/bone infections, neutropenic fevers, bacteremias. Demonstrate an understanding of management of infections in an immunocompromised host. Infer how to manage and counsel HIV patients. Show an understanding of the principles behind antimicrobial stewardship

INF 810-2 Infectious Disease

Number of Students: 2/per 2-week Block

Locations: Kaiser Sacramento and Morse

Course Director: Lenora Lee, MD

Offered as: 2-week rotation

General Description: Learn about common infectious diseases and how to treat them. Learn about HIV care. Understand the importance of antimicrobial stewardship and the judicious use of antimicrobials. To show an understanding of how to identify, diagnose and treat various bacterial, viral, fungal infections. Infer how to diagnose and treat various orthopedic/bone infections, neutropenic fevers, bacteremias. Demonstrate an understanding of management of infections in an immunocompromised host. Infer how to manage and counsel HIV patients. Show an understanding of the principles behind antimicrobial stewardship.

INF 812 California Northstate University of Medicine M4 Infectious Diseases Clerkship

Number of Students: 2/Month

Locations: Kaiser Permanente Medical Center, Modesto

Course Director: Razeq A. Shetab, M.D.

Offered as: 4-week rotation

General Description: This Infectious Disease clerkship is scheduled with a preceptor who is an expert in this field. The student will experience the day to day activities of clinicians as he/she assists in the care of their patients. Exposure to patients in the clinic and hospital setting will give the student opportunity to practice interview and documentation skills. The student may be given the opportunity to participate in procedures as the preceptor determines his/her readiness. The curriculum for this rotation is based on nationally recognized curriculum modified for fourth year elective focus from the Clerkship Directors for Internal Medicine. Clinical rotations for California Northstate University College of Medicine are developed in a community training model. Community training involves placing students in a busy physician's practice with learning objectives that direct the student's focus. It is the student's job to learn rather than the physician's job to teach. Learning is "just in time" taking advantage of educational opportunities that present and augmenting learning opportunities with reading or modules to complete the objectives. In this model, students are expected to develop lifelong learning patterns of accessing appropriate resources rather than being told what to do and when to do it (prescriptive learning). The required texts will provide information necessary for successfully studying in this rotation, but some students may prefer suggested texts or others. Preceptors may direct the student to their favorite texts or online resources.

PALLIATIVE MEDICINE

INT 810-1 Palliative Medicine

Number of Students: 2/Month

Locations: Kaiser Permanente Medical Center, Modesto

Course Director: Paul Luong, MD, MBA, FACP, HMDC

Offered as: 2-4-week rotation

General Description: Palliative Medicine is an essential component of medical care for patient with a life limiting illness. This course provides medical students and residents a framework in which to effectively to acquire Palliative Care knowledge and skill sets necessary to care for serious ill patients and their families.

INT 810-2 Palliative Medicine

Number of Students: TBD

Locations: Mercy San Juan Medical Center

Course Director: Hari Nagaraj, MD

Offered as: 2-4-week rotation

General Description: Palliative Medicine is an essential component of medical care for patient with a life limiting illness. This course provides medical students and residents a framework in which to effectively to acquire Palliative Care knowledge and skill sets necessary to care for serious ill patients and their families. Demonstrate an effective approach to manage pain and other symptoms. Apply the principle of psychosocial and spiritual support in patient care. Demonstrate an effective approach to deliver serious news and explain prognostic information to the patients and their families. Apply disease trajectory and goals of care discussions in patient care. Demonstrate life care planning addressing complex family dynamics and caregiver support. Clinical experiences includes inpatient and outpatient Palliative Care experiences, pain management, disclosing serious news, offering prognostic information, disease trajectory, addressing goals of care, conducting family conference, home visits (optional).

INT 811 Introduction to Palliative Medicine

Number of Students: 2/Month

Locations: Kaiser Sacramento and Roseville Hospitals

Course Director: Greg Naughton, MD, Margaret Leung, MD

Offered as: 4-week rotation

General Description: Course goals are to provide the medical student with a foundation in the principles of Palliative Medicine, particularly communication skills, pain and symptom management, and care of the dying patient. Demonstrate proper communication skills, particularly between providers and patients/families. Demonstrate the ability to organize and conduct a family meeting. Discover the basics of pain and symptom management. Improve prognostic awareness. Demonstrate the basic skills of care for the dying patient. Clinical experiences includes Hospital-based care, following patients on the in-patient Palliative Medicine team Hospice-based care, spending several days with hospice care providers in the community.

INT 812 Palliative Medicine and Hospice Medicine

Number of Students: 1/Month

Locations: Methodist Hospital of Southern California

Course Director: Michael Cortez, MD

Offered as: 2-4-week rotation

General Description: Students will learn to integrate medical scientific methodology and practice with their patients psychosocial issues to develop plans to maximize patients and family quality of life. Integrate solutions and approaches to improve quality of life for a wide variety of challenging patients. Develop hands-on experience, including care clarification and explanation, with patients with difficult medical issues and patients who require end-of-life care. Clinical experiences includes In-patient / out-patient (Home) rounds.

PULMONARY

PUL 801 Pulmonary & Critical Care Medicine Sub-I

Number of Students: 2/Month

Locations: Sutter Roseville Medical Center, Mercy San Juan Hospital

Course Director: Vanessa Walker, D.O., Muhammad Afzal, M.D., Peter Murphy, M.D.

Offered as: 2-4-week rotation

General Description: This rotation offers an opportunity for a 4th-year student to work jointly with a faculty attending to evaluate and manage critically ill medical and surgical patients. Typical patient diagnoses include myocardial infarction and cardiac arrest, acute respiratory failure (asthma, COPD, pneumonia, ARDS), delirium and coma, stroke, severe sepsis, toxic ingestions, diabetic ketoacidosis, cardiogenic and septic shock, renal and hepatic failure, and post-operative co-management. A comprehensive evidence-based management approach based in physiology will be taught. Students will be responsible for patient evaluations and notes and will progress to performance of diagnostic and therapeutic procedures as appropriate. Students will become familiar with basic mechanical ventilator management and arterial blood gas interpretation, and the value of a multi-professional team approach to the care of the critically ill.

PUL 810 Pulmonary & Critical Care

Number of Students: 1/Month

Locations: Kaiser South Sacramento

Course Director: TBD

Offered as: 4-week rotation

General Description: This rotation offers an opportunity for a 4th-year student to work jointly with a faculty attending to evaluate and manage critically ill medical and surgical patients. Typical patient diagnoses include myocardial infarction and cardiac arrest, acute respiratory failure (asthma, COPD, pneumonia, ARDS), delirium and coma, stroke, severe sepsis, toxic ingestions, diabetic ketoacidosis, cardiogenic and septic shock, renal and hepatic failure, and post-operative co-management. A comprehensive evidence-based management approach based in physiology will be taught. Students will be responsible for patient evaluations and notes and will progress to performance of diagnostic and therapeutic procedures as appropriate. Students will become familiar with basic mechanical ventilator management and arterial blood gas interpretation, and the value of a multi-professional team approach to the care of the critically ill.

PUL 811 Pulmonary & Critical Medicine

Number of Students: TBD

Locations: Simi Valley Hospital & Los Robles Regional Medical Center

Course Director: Duc Nguyen, MD

Offered as: 4-week rotation

General Description: Learn how to manage respiratory diseases both inpatient and outpatient. Build the skill to manage COPD, asthma, pneumonia. Build the skill to manage critical patients in the ICU. How to manage sepsis, stroke, and many other critical illnesses in the ICU.

PUL 812 Pulmonary & Critical Care & Sleep Medicine

Number of Students: TBD

Locations: Mercy san Juan Medical Center and Mercy Sleep Lab

Course Director: Hari Nagaraj, MD

Offered as: 4-week rotation

General Description: This rotation offers an opportunity for a 4th-year student to work jointly with a faculty attending to evaluate and manage critically ill medical and surgical patients. Typical patient diagnoses include myocardial infarction and cardiac arrest, acute respiratory failure (asthma, COPD, pneumonia, ARDS), delirium and coma, stroke, severe sepsis, toxic ingestions, diabetic ketoacidosis, cardiogenic and septic shock, renal and hepatic failure, and post-operative co-management. A comprehensive evidence-based management approach based in physiology will be taught. Students will be responsible for patient evaluations and notes and will progress to performance of diagnostic and therapeutic procedures as appropriate. Students will become familiar with basic mechanical ventilator management and arterial blood gas interpretation, and the value of a multi-professional team approach to the care of the critically ill.

RENAL

REN 810-1 Nephrology

Number of Students: 2/Month

Locations: Kaiser Medical Center Roseville

Course Director: Jignesh Patel MD

Offered as: 2-week rotation

General Description: Basics of Renal disease, Acute Kidney Injury, Chronic Kidney Disease, Hypertension, Electrolyte abnormalities and introduction to dialysis and kidney transplant. Make use of above topics to achieve a sound knowledge in renal physiology. Clinical experiences includes office and hospital patients.

REN 810-2 Nephrology

Number of Students: 2/Month

Locations: Modesto Kidney Medical Group, Modesto, CA

Course Director: Ge Yuqiang, MD

Offered as: 2-week rotation

General Description: Basics of Renal disease, Acute Kidney Injury, Chronic Kidney Disease, Hypertension, Electrolyte abnormalities and introduction to dialysis and kidney transplant. Make use of above topics to achieve a sound knowledge in renal physiology. Clinical experiences includes office and hospital patients.

REN 810-3 Nephrology

Number of Students: 2/Month

Locations: Capital Nephrology Medical Group

Course Director: David Pai, M.D.

Offered as: 2-4-week rotation

General Description: Basics of Renal disease, Acute Kidney Injury, Chronic Kidney Disease, Hypertension, Electrolyte abnormalities and introduction to dialysis and kidney transplant. Make use of above topics to achieve a sound knowledge in renal physiology. Clinical experiences includes office and hospital patients.

RHEUMATOLOGY

RHE 810-1 Rheumatology

Number of Students: 1/Month

Locations: Roseville, CA

Course Director: Anupama Bhat, MD
Offered as: 2-4-week rotation

General Description: Rheumatology is a study of autoimmune disease and in this specialty students would learn clinical signs and symptoms of some of the most common rheumatologic autoimmune diseases like Rheumatoid arthritis, Lupus, Psoriatic Arthritis, Ankylosing spondylitis and various other autoimmune disease. Evaluate history and physical examination specific for rheumatologic disease process. Maximize basic knowledge about most common disease like Rheumatoid arthritis, Osteoarthritis, lupus and gout.

RHE 810-2 Rheumatology

Number of Students: TBD

Locations: TBD

Course Director: Robert Fogel Shapiro, MD

Offered as: 4-week rotation

General Description: Rheumatology is a study of autoimmune disease and in this specialty students would learn clinical signs and symptoms of some of the most common rheumatologic autoimmune diseases like Rheumatoid arthritis, Lupus, Psoriatic Arthritis, Ankylosing spondylitis and various other autoimmune disease. Students will demonstrate how they examine and analyze patients with rheumatic diseases. When appropriate they should analyze laboratory assessment and radiographic characteristics of the diseases. Clinical experiences includes seeing patients with history and physical exam followed by review of labs and images with further discussion.

SPORTS MEDICINE

SPM 814 First Degree Care Sports Medicine

Number of Students: 2/Month

Locations: Rocklin Family Practice and Sports Medicine

Course Director: Bill S. Chima, M.D

Offered as: 4-week rotation

General Description: Improve and acquire high skills in MSK exams / OX / Injections / Fracture & concussion management / XRAY interpretation. Demonstrate and describe basic structures and functioning of body joints. Demonstrate proper injections technique. Observe and manage fractures and concussions. Acquire high skills in XRAY interpretation.

SPM 815 Sports Medicine (Not currently offered)

Number of Students: TBD

Locations: Kaiser Permanente Sports Medicine Center, Sacramento

Course Director: Jason D. Brayley, MD

Offered as: 2-6-week rotation

General Description: Apply acquired skills of clinical exposure to most common acute sports injuries, initial evaluation and management and return to play consideration when relevant. Apply the required medical knowledge and skills to examine large joints. Discover and demonstrate an appropriate sports concussion evaluation. Apply acquired skills of clinical exposure to appropriate x-rays evaluation and interpretation.

NEUROLOGY

NEU 810 Clinical Neurosciences Elective

Number of Students: 4/Month

Locations: CNUCOM

Course Director: For-Shing Lui, MD

Offered as: 4-week rotation

General Description: Build the understanding of neurology through better understanding of more basic clinical neurosciences. Apply and demonstrate basic neurosciences theory and principles in clinical application. Utilize the literature and apply the knowledge for evidence based practice. Apply self-directed learning methodologies to clinical practice. Create and propose teaching sessions and tutorials for other medical students. Regular meeting with the preceptor to discuss learning and teaching activities. Regular self-directed learning activities with literature search and understanding.

NEU 811 Clinical Neurology Elective

Number of Students: 2/Month

Locations: Multiple

Course Director: Rochelle Frank, MD

Offered as: 2-4-week rotation

General Description: Improve the understanding of neurology in the clinical setting, inpatient and/or ambulatory. Deepen and expand Neurology skills and knowledge acquired in 3rd year clerkship in areas of: history taking, physical exam, formulating differential diagnosis and management plan, improve skills in oral and written presentations, procedural skills (when available). Explore selected subspecialties in Neurology in more depth. Continue to refine skills in professionalism, communication and collaboration. Acquire skills in patient management as part of the neurology team under supervision by the preceptor. Clinical Neurology experiences in both inpatient and outpatient settings. Different areas of neurology will be offered including adult and pediatric neurology and general and subspecialty opportunities. Schedule will be customized by student request in available general and subspecialty areas.

NEU 813 Pediatric Neurology Elective

Number of Students: 1/Month

Locations: Sacramento and Roseville

Course Director: Rochelle Frank, MD

Offered as: 2-4-week rotation

General Description: Clinical experience in Pediatric Neurology
Improve the understanding of neurology with expansion to Pediatric Neurology in the clinical setting, inpatient and/or ambulatory. Deepen and expand Neurology skills and knowledge acquired in 3rd year clerkship. Continue to refine skills in professionalism, communication and collaboration. Acquire skills in patient management as part of the neurology team under supervision by the preceptor. Focus of Clinical Pediatric Neurology experiences in both inpatient and outpatient settings. Different settings of Pediatric Neurology will be offered. Schedule will be customized by student request in available locations.

NEU 814 Pediatric Neurology Elective with Clinical Neurology /subspecialty option

Number of Students: 1/Month

Locations: Sacramento and Roseville

Course Director: Rochelle Frank, MD

Offered as: 2-4-week rotation

General Description: Clinical experience in Pediatric Neurology with the option to explore selected subspecialties/adult Neurology in more depth. Improve the understanding of neurology in the clinical setting, inpatient and/or ambulatory. Deepen and expand Neurology skills and knowledge acquired in 3rd year clerkship. Continue to refine skills in professionalism, communication and collaboration. Acquire skills in patient management as part of the neurology team under supervision by the preceptor. Focus of Clinical Pediatric Neurology experiences in both inpatient and outpatient settings with option of 1-2 weeks of Neurology/subspecialty rotations. Different areas of neurology will be offered primarily in pediatric neurology and but with the option of various Neurology/subspecialty (adult or pediatric) opportunities. Schedule will be customized by student request in available general and subspecialty areas.

NEU 815 Pediatric Epilepsy/Neurophysiology - University of Bristol (Not currently offered)

Number of Students: 1/Month

Locations: University of Bristol, UK

Course Director: Nick Kane, MD

Offered as: 4-week rotation

General Description: This elective rotation is a four (4) weeks structured clinical experience under direct supervision of a neurophysiology attending designed to provide the student experience in diagnosing, treating and caring for patients with neurological conditions. There will be an emphasis on pediatric epilepsy and psychogenic nonepileptic seizures. 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 neurologic conditions. It is expected they will gain a better understanding of neurophysiological techniques to diagnose and treat patients. Students will learn what it is like to be on a comprehensive consulting team. Student will be responsible for contributing to a research publication in pediatric epilepsy.

NEUROSURGERY

NSG 880S Neurosurgery

Number of Students: 1/Month

Locations: Mercy General Hospital, Sutter General Hospital

Course Director: Michael Chan, MD

Offered as: 4-week rotation

General Description: The student will be exposed to the breadth of neurosurgery pathologies such as brain tumors, vascular lesions, pain syndromes, spinal deformities, trauma of the brain or spine. The student will have the opportunity to work in the clinic as well as in the operating room and assist on neurosurgical operations. It is recommended that the student has a strong interest in the surgical specialties for this rotation. Apply knowledge of neuroanatomy to describe etiopathogenesis and management of neurosurgical disorders. Apply knowledge of neuroanatomy to interpret neuro-radiological findings. Explain the mechanisms of traumatic brain injuries and outline their management. Outline the clinical course including management of common neurosurgical problems including tumors, stroke, and spinal disease. Clinical experiences includes assist in surgery, round in the hospitals, evaluate patient in the clinic.

OBSTETRICS AND GYNECOLOGY

OBG 801 Obstetrics/Gynecology Sub-I

Number of Students: 3/Month

Locations: Multiple

Course Director: Jean-Claude Veille, MD

Offered as: 4-week rotation

General Description: This is a course that exposes the student to general obstetrics and gynecology. The student will rotate through obstetrical services including labor and delivery, the gynecological services, and ambulatory clinics. There will be one call day. This rotation is designed to prime and prepare the student for an OBGYN internship. Medical students interested in an OBGYN residency are encouraged to experience this course. Be able to diagnose and manage common gynecological and obstetrical conditions. Demonstrate improved history and physical on gynecological and obstetrical patients. Get focused exposure to obstetrical procedures, especially vaginal deliveries and cesarean sections. Assist in gynecological procedures in the operating room. Become more familiar with managing the ambulatory gynecological and prenatal patient. Obtain experience in working as a member of a healthcare team.

OBG 810 Clinical OB-GYN Elective

Number of Students: 1/Month

Locations: Multiple

Course Director: Jean-Claude Veille, MD

Offered as: 2-4-week rotation

General Description: Improve the understanding of Ob-Gyn in the clinical setting, inpatient and/or ambulatory. Deepen and expand Ob-Gyn skills and knowledge obtained during their 3rd year clerkship. Explore selected subspecialties in Ob-Gyn [Oncology, MFM, Infertility, UroGyn, Family Planning] in greater depth. Continue to refine such areas as professionalism, communication and collaboration. Acquire skills in patient management as part of the Ob-Gyn team under supervision by the preceptor. Apply knowledge of basic & clinical sciences into medical practice. Obtain and deliver a complete concise, clear and concise oral and written presentation of a patient's history and examination in a more complex setting. Distinguish normal from abnormal findings and the ability to localize the likely sites of lesion in the Ob-Gyn system from available clinical information. Utilize and interpret common tests used in diagnosing common condition in Ob-Gyn. Formulate a differential diagnosis based on clinical information and relevant history. Demonstrate a systematic approach to the diagnosis and management of common Ob-Gyn conditions and formulate a logical management plan. Understand Ob-Gyn Subspecialties and their applications. Function as a "contributor" to the team managing the Ob-Gyn disorders.

OPHTHALMOLOGY

OPH 810 Ophthalmology Clerkship

Number of Students: 2/Month

Locations: Martel Eye Medical Group, Retinal Consultants

Course Director: James Martel, MD; Joseph Martel, MD; David Telander, MD

Offered as: 4-week rotation

General Description: Students are expected to develop the basic skills of medical problem solving, basic science integration, case management, procedural competence, and professional behavior as it pertains to the field of ophthalmology. They will accomplish this by: Refining history taking, refining the physical examination, and

developing a reasonable differential diagnosis. Interpret how to function as a physician in an Ophthalmology setting. Students will observe, participate, and manage in the care of clinical patients.

OPH 811 Ophthalmology

Number of Students: 1/Month

Locations: TBD

Course Director: Randal Pham, MD

Offered as: 4-week rotation

General Description: Students are expected to develop the basic skills of medical problem solving, basic science integration, case management, procedural competence, and professional behavior as it pertains to the field of ophthalmology. They will accomplish this by: Refining history taking, refining the physical examination, and developing a reasonable differential diagnosis. Interpret how to function as a physician in an Ophthalmology setting. Students will observe, participate, and manage in the care of clinical patients.

ORTHOPEDIC SURGERY

ORT 880S Ortho Spine

Number of Students: TBD

Locations: Sutter General

Course Director: Mark Hambly, MD

Offered as: 4-week rotation

General Description: Students will see and evaluate patients in office, observe surgery, make rounds. Develop experience in understanding medical and surgical options for patients with spine disorders. Clinical experiences includes evaluate patients with spine conditions and understand decision making in operative and non-operative care.

ORT 881S Orthopedic Surgery

Number of Students: 1/Month

Locations: Mercy San Juan Hospital, Sutter Roseville Medical Center

Course Director: Hunter Greene, MD

Offered as: 4-week rotation

General Description: General observations and interactions with patients. Rounds in the hospital and observation in surgery. Extend knowledge in orthopedic anatomy and physical exam skills of the extremities. Build basic surgical skills. Clinical experiences includes office, OR, rounding, surgery center. Mix of time between surgery and clinic. Possible weekend trauma call.

ORT 882S Orthopedic and Podiatry

Number of Students: 1/Month

Locations: Kaiser South Sacramento

Course Director: TBD

Offered as: 4-week rotation

General Description: The student will be able to develop skills in the Orthopedic Surgery Department by examining and supporting the residents and faculty. The student will be able to make use of the outpatient clinic, emergency room, ambulatory surgery, and the main operating room. To show students to the field of orthopedics

and it's various subspecialties and research opportunities. To demonstrate a general feel for the training involved in Orthopedics. To show basic orthopedic skills such as x-ray interpretation, splinting and casting techniques, suturing techniques, physical exam. To extend the student knowledge of anatomy as it applies to musculoskeletal conditions, and to introduce student to orthopedic treatments and the medical decision making process.

OTOLARYNGOLOGY - ENT

OTO 813 Otolaryngology Elective

Number of Students: 1/Month

Locations: Sacramento, Roseville, Carmichael

Course Director: Michael J. Kearns, MD, FACS, Physicians at Ear, Nose, and Throat offices

Offered as: 2-4-week rotation

General Description: Develop an understanding of the diagnosis and treatment of many common otolaryngology diseases. Improve examination skills. Develop recognition of head and neck pathology. Demonstrate the understanding of when to refer for specialty opinion. On site experience at one of three SacENT offices as well as surgery centers and hospitals in Sacramento and Roseville areas.

OTO 814 Pediatric Otolaryngology

Number of Students: TBD

Locations: Kaiser Roseville Women and Children's Center

Course Director: Brian Rubinstein, MD

Offered as: 2-week rotation

General Description: Two week rotation includes the analyzing of pediatric otolaryngology problems presented to specialist for diagnosis and treatment. The student develop skills in the clinic, hospital and operating room. Learn the basic anatomy and surgical anatomy of the head and neck, including surface and internal anatomy. Learn the embryologic foundations of pediatric otolaryngologic disorders. Recognize signs and symptoms of pediatric otolaryngologic disorders. Use appropriate tests and evaluation methods for pediatric otolaryngologic disorders. Complete a comprehensive history and physical examination. Develop a diagnosis for pediatric otolaryngologic disorders. Demonstrate and describe the surgical and nonsurgical management of pediatric otolaryngologic disorders. Student will accompany physician and participate in clinic in the evaluation of head and neck surgery patients.

OTO 881S Otolaryngology - Head and Neck Surgery

Number of Students: 1/Month

Locations: Modesto and Stockton

Course Director: Dr. Phyllis Peng, Dr. Mark Bitgood, Dr. Ji-Eon Kim; pending: Dr. Elizabeth Lai, Dr. Maricel Cubangbang; to be submitted: Dr. Chris Whang, Dr. Bumni Ajose, Dr. Kenneth Mak

Offered as: 4-week rotation

General Description: The objective of this course is to give a broad exposure to the clinical and surgical aspects of otolaryngology. Students will become acquainted with the experience of outpatient office, operating room care, and overall integrated care between patients, general otolaryngologists, and other health care providers including primary care, audiology, and speech therapy. In the office, students will have the opportunity to obtain focused history, perform a complete head and neck exam, formulate differential diagnosis, and management plan. In the operating room, students will perform chart reviews prior to surgery and be knowledgeable about relevant surgical anatomy and treatment options for common surgical disorders like otitis media, sinusitis, pediatric obstructive sleep apnea, and thyroid disorders. At the end of the rotation, the student will be expected to present a

topic that was encountered during the rotation. The course setting includes Kaiser Stockton Medical offices (with a potential opportunity for facial plastics exposure), Modesto and Manteca Kaiser Hospitals. The hours may potentially run from 7 AM to 7 PM without overnight call.

OTO 882S Head and Neck Surgery

Number of Students: 1/Month

Locations: Kaiser Roseville

Course Director: Vishal Doctor, MD

Offered as: 4-week rotation

General Description: Understanding common head and neck pathologies and management strategies. Develop competency with the head and neck exam and identification of normal anatomy. Demonstrate understanding of head and neck surgical anatomy. Show familiarity with common head and neck pathology and basic management strategies. Demonstrate familiarity with common head and neck emergencies basic management strategies. Students will work with staff surgeons in clinic and operating room

PHYSICAL MEDICINE & REHABILITATION

PMR 810-1 Physical Medicine and Rehabilitation (PM&R)

Number of Students: 1/Month

Locations: Kaiser South Sacramento

Course Director: TBD

Offered as: 4-week rotation

General Description: This elective provides a custom designed experience in the field of Physical Medicine and Rehabilitation based on the interests of the individual student. Students can elect for a broad exposure to the field, or concentrate in a specific area including outpatient, acute inpatient, subacute inpatient, trauma, and electromyography testing. This elective is recommended for students contemplating a career in physical medicine and Rehabilitation as well as those anticipating a career in primary care.

PMR 810-2 Physical Medicine and Rehabilitation (PM&R)

Number of Students: 1/Month

Locations: Kaiser Sacramento and Roseville

Course Director: Steven T. Chan, MD

Offered as: 4-week rotation

General Description: Understand the diversity and scope of PM&R practice (neurologic rehab, musculoskeletal, spine, interventional procedures, electrodiagnostic tests, inpatient and outpatient care). Understand basic principles involved in the above (see Learning Objectives, below). Demonstrate competency in basic neurologic, spine and functional examinations. Complete a history, physical exam and functional assessment on individuals with disabilities. Develop strategies to reduce the risk of secondary complications for the disabled individual (contractures, skin breakdown, DVT, etc). Learn the process of adaptation to disability and reintegration of the disabled patient into the family, community and workplace. Learn basic spine diagnoses, spine exam and management/treatment options. Learn about role of electrodiagnostic tests in the medical workup process. Spine clinic appointments (Kaiser Sacramento and Roseville); Injection Risk Orientation (Kaiser Roseville); and outpatient physical therapy appointments. Interventional spine procedures – fluoroscopy and ultrasound-guided (Kaiser Ros). Electrodiagnostic clinic appointments (Kaiser Sac, Ros). Neurorehab clinic appointments (Kaiser Sac, Ros); amputee clinic; and outpatient physical, occupational, speech therapy appointments. Hospital consultations, neuro-ICU and stroke rounds, inpatient therapy sessions (Kaiser Sac).

PEDIATRICS

PED 801 Pediatrics Sub-I

Number of Students: 3/Month

Locations: Multiple

Course Director: Ravindra Khaira, MD

Offered as: 4-week rotation

General Description: The medical students will function as interns. Each student will meet with Dr. Khaira on the first day to determine how the rotation is to be structured with educational goals and objective. Rotations are based on the individual interests and needs of the student. Students will care for patients of all socioeconomic backgrounds and with a mix of pathology ranging from bread and butter problems to tertiary care inpatient pediatrics.

PED 810 Pediatric Cardiology

Number of Students: TBD

Locations: Sutter Med Center, Sutter Roseville, Mercy San Juan, Mercy Folsom, Methodist

Course Director: Stanley Wright, M.D., Naveen Manohar, M.D., James Hill, M.D.

Offered as: 4-week rotation

General Description: Develop understanding of cardiovascular physiology and pathophysiology of both congenital and acquired heart disease in outpatient and inpatient environments. Gain exposure to both noninvasive and invasive methods used in diagnosing and treating congenital and acquired heart disease in the pediatric population. Develop skills in obtaining a history and performing a physical examination focused on the cardiovascular system. Students will develop skills in performing a physical examination focused on the cardiovascular system, including feeding patterns, respiratory assessment and evaluation of perfusion and auscultation of innocent and pathologic murmurs. Interpretation of electrocardiograms and chest x-rays. Gain understanding of the utility of echocardiography, cardiac catheterization, stress test, MRI and CT imaging modality in the assessment of congenital and acquired pediatric cardiovascular disease. Learn approaches to the evaluation of chest pain, palpitations, dizziness and syncope. Develop skills in the assessment of newborns, infants and children with suspected congenital or acquired cardiovascular disease. Recognize signs and symptoms associated with congestive.

PED 815 Pediatric Intensive and Inpatient Care

Number of Students: TBD

Locations: Multiple

Course Director: Ravindra Khaira, MD

Offered as: 4-week rotation

General Description: Provide students a broad exposure and experience in managing or participating in the care of hospitalized pediatric patients in both pediatric critical care and/or inpatient units at an accredited Children's Hospital. Observe or participate in the management of hospitalized infants, children adolescents, and young adults. Develop the experience required for medical management issues unique to the pediatric population. Observe/participate in procedures commonly required in the medical management of pediatric inpatients. Students will be assigned to PICU at Sutter Medical Center's Women and Children's Center during their 4 week rotation.

PED 816 Medicine - Pediatrics

Number of Students: 1/Month

Locations: San Diego Internal Medicine and Pediatrics Associates

Course Director: Karim Mansour, MD

Offered as: 4-week rotation

General Description: To gain exposure to the combined field of internal medicine and pediatrics. Develop clinical experience through in a setting that is unique to internal and pediatric medicine which is proctored by a physician who is board certified in both internal medicine pediatrics. Assume a role where students are responsible for making initial evaluations, carrying out diagnostic procedures and provide ongoing management of patients. Clinical experiences includes history-taking, physical examination, diagnostic procedures and patient management.

PED 817 Pediatric Hematology-Oncology

Number of Students: 1/Month

Locations: San Diego Internal Medicine and Pediatrics Associates

Course Director: Kent Jolly, MD

Offered as: 4-week rotation

General Description: To gain exposure to the field of hematology-oncology. Provides exposure in a setting that is unique to pediatric hematology oncology which is proctored by a physician who has specialized in the field. The student should assume a role where they are responsible for making initial evaluations, carrying out diagnostic procedures and provide ongoing management of patients.

PATHOLOGY

PTH 810 Pathology

Number of Students: TBD

Locations: Hospital Laboratory

Course Director: Anna Wong, MD

Offered as: 4-week rotation

General Description: Understand the role of pathology, appropriate utilization of lab tests. Understand the behind the scenes work that is involved in clinical laboratory result reporting. Demonstrate the functions of a community pathologist: Anatomic pathology: frozen sections, intraoperative consultation, hospital slide review and special studies, gross examination of surgical specimens. Clinical lab management: take part in the hematology, blood bank, chemistry, attend hospital lab meetings as appropriate, lab management.

PLASTIC SURGERY

PLS 801S UC Davis Plastic Surgery Acting Internship

Number of Students: 1/Month

Locations: UC Davis Medical Center

Course Director: Michael S. Wong, MD

Offered as: 4-week rotation

General Description: Gain a greater appreciation of Plastic Surgery, as the surgical specialty that restores, reconstructs, or alters the human body in response to congenital or acquired deformities following trauma, weight

changes, or the natural aging process. It encompasses many specialty areas including craniofacial, hand, microsurgery, breast and aesthetic surgery. Elective is flexible with primary emphasis on reconstructive and aesthetic surgery at the University Hospital with opportunities for assisting in the operating room. The rotation also includes Trauma call to provide experience with the evaluation and management of maxillofacial and hand trauma with opportunities for suturing of lacerations as well as closed reduction and splinting of common hand fractures. Clinical experiences gained through pre-rounding, morning report, clinical rounds, surgeries, out-patient clinics, and consultations in all settings.

PLS 880S Plastic Surgery

Number of Students: TBD

Locations: AHMC San Gabriel Valley Hospital

Course Director: Lawton Tang, MD

Offered as: 2-4-week rotation

General Description: The specialty of plastic and reconstructive surgery is that branch of surgery concerned with the restoration of normal form and function. It is a varied specialty involving adults and children and encompassing a wide range of conditions in different parts of the body. A major proportion of the workload involves take part in urgent or emergency cases. One of the most interesting aspects of the specialty is the frequency with which plastic surgeons relate with surgeons from other specialties such as general surgery, orthopedics, otorhinolaryngology, and maxillofacial surgery. In these cases, the reconstructive techniques that plastic surgeons have at their disposal are recognized. The specialty is also closely associated with aesthetic surgery where body parts are surgically altered to bring about an improvement in appearance.

Major research areas include wound healing and scar management. The specialty is known for the innovations and advances it has brought to the practice of surgery in general. This includes the use of microsurgical techniques, the understanding of the blood supply of the skin and soft tissues allowing the introduction of many types of flap used in clinical practice, and the introduction of tissue engineering methods in the development of skin substitutes.

PSYCHIATRY

PSY-M 810 Psychiatry Elective

Number of Students: 1/Month

Locations: Kaiser South Sacramento

Course Director: Andrew Bregman, MD

Offered as: 3-week rotation

General Description: Students should learn common psychiatric conditions such as Major Depressive Disorder, Generalized Anxiety Disorder, Bipolar Disorder, and schizophrenia. Students will be expected to present cases and develop a treatment plan as well as interview patients. Time will be spent in outpatient psychiatry. Daily interaction with preceptor as well as clinical presentation on topic of preceptor's choosing. To practice taking a psychiatric history and developing a treatment plan in the outpatient setting. Conducting a psychiatric history. Develop a treatment plan as well as the basis for psychiatric admission. Being able to recognize the difference between neurological and psychiatric causes. Outpatient and hospital inpatient clinical experiences.

PSY-M 811 Psychiatry Elective

Number of Students: 1/Month

Locations: Sierra Vista Hospital

Course Director: Edgar Catingub, MD

Offered as: 4-week rotation

General Description: The focus of this elective will be on interviewing skills and documentation. Specifically for fourth year, the focus would be on independence and autonomy. This would include researching unique aspects of the student's patient's presentation, and presenting/utilizing that information directly for patient care. There would be more of an expectation for the independent treatment planning, as well as independent interactions with case management and patient's families. Daily "check-in" with the student at the end of the day rather than throughout, and there would be more critical discussion regarding the rationale behind clinical conclusions and treatment decisions. Furthermore, if there are third year student on rotation, as well, I would delegate some teaching responsibilities to the fourth year student.

PSY M-830 Child and Adolescent Psychiatry

Number of Students: TBD

Locations: South Beach Psychiatric Center, Staten Island, NY

Course Director: Alex Mikhelson, MD

Offered as: 4-week rotation

General Description: In psychiatry, child and adolescent patients differ significantly from adults in many ways, such as being in various stages of neurocognitive and general development. The goal of the course is primarily to introduce and develop skills and knowledge related to psychiatric treatment in these patients including topics such as: Diagnosis of psychiatric illness in child and adolescent patients, including differentiating variations in development and behavior from pathology. Interview and collection of collateral. How the developmental, family, environment (home, school, etc.) and other factors contribute to and interact with mental illness in children and its treatment, as well as potentially confound or confuse diagnosis. Challenges and subtleties of treatment of the patient population. For example, management of the milieu of the patient and their illness.

Psychopharmacological treatment of the child and adolescent patients. For instance, idiosyncratic drug reactions in the population such as suicidal ideation caused by treatment with SSRIs. Psychotherapeutic treatment of CAP patients. Intersections of CAP psychiatry with law and society. Student will observe and carry out interview of patients and family, write notes and orally present cases (including histories, MSE, formulation, assessment and plan) to preceptor.

RADIOLOGY

RAD 810-1 Radiology

Number of Students: 1/Month

Locations: Kaiser South Sacramento

Course Director: TBD

Offered as: 4-week rotation

General Description: After the 4-week rotation through various sections of the department, student(s) should be able to: 1. Understand the basic principles of radiography and identify basic daily routine clinical radiographic examinations and interpretation of common diseases-pathologies. 2. Understand the basic principles of computed tomography (CT) and magnetic resonance imaging (MRI) its daily routine clinical examinations including appropriate indications and grasp basic cross-sectionally anatomy as well as common pathologic conditions/diseases. 3. Understand the basic principles of fluoroscopy and basic daily routine clinical fluoroscopic examinations and procedures. 4. Understand the basic principles of nuclear medicine and its daily routine clinical examinations and interpretation. 5. Understand the basic principles of interventional radiography and its daily routine clinical examinations and procedures.

RAD 810-2 Radiology

Number of Students: TBD

Locations: Alhambra Hospital, Los Angeles, CA

Course Director: James Lin, MD.
Offered as: 4-week rotation

General Description: Students will gain experience and knowledge about the specialty of Radiology; indications, interpretations, and common interpretation errors. After the 4-week rotation through various sections of the department, student(s) should be able to: 1. Explain the basic principles of radiography and identify basic daily routine clinical radiographic examination and interpretation of common diseases-pathologies. 2. Explain the basic principles of computed tomography (CT) and magnetic resonance imaging (MRI). Its daily routine clinical examinations including appropriate indications and grasp basic cross-sectionally anatomy as well as common pathologic conditions/diseases. 3. Explain the basic principles of fluoroscopy and basic daily routine clinical fluoroscopic examinations and procedures. 4. Explain the basic principles of nuclear medicine as its daily routine clinical examination and interpretation. 5. Explain the basic principles of interventional radiography and its daily routine clinical examinations and procedures.

RAD 811-1 Interventional Radiology

Number of Students: 1/Month
Locations: Kaiser South Sacramento
Course Director: TBD
Offered as: 4-week rotation

General Description: Understand the basic technical principles of image-guided procedures using fluoroscopy, ultrasound, and CT and application into intervention in organ systems. Students are exposed to a wide range of procedures performed by a practicing Interventional Radiologist. Understand the clinical principles of interventional radiography as applied to disease processes and importance of active patient management. Develop mastery of arterial and venous anatomy. Demonstrate familiarity with use of ultrasound and ultrasound guided needle access. Develop mastery of Seldinger technique. Demonstrate familiarity with use of guide wires, catheters, and microcatheter systems. Demonstrate familiarity with angioplasty equipment, stents, and embolic agents. Demonstrate understanding of clinical role of IR in caring for the critically ill patient. Develop advanced understanding of interventional oncology especially in treatment of hepatocellular carcinoma. Demonstrate familiarity with venous and arterial interventions. Develop understanding of clinical role of IR in caring for patients in the outpatient setting. Students will work with other residents/fellows.

RAD 811-2 Interventional Radiology

Number of Students: TBD
Locations: AHMC Whittier Hospital
Course Director: Bay Ngo, MD
Offered as: 4-week rotation

General Description: This elective is designed to provide the student with a better understanding of the central role of interventional radiology in the evaluation and management of patients through participation in reading room readouts, radiology call, case presentations, interactive labs, and observation of the various imaging modalities and procedures. The student will participate in clinical services interacting with and observing the faculty. Explain the spectrum of diagnostic imaging (e.g., ultrasound, CT, MR, nuclear medicine, angiography, and conventional radiology) and diagnostic and therapeutic image-guided interventional techniques. Extend the appreciation for the role of the radiologist as consultant to the clinician and importance of providing detailed clinical information in the radiology consult. Extend the appreciation for the fundamental role and value of imaging to provide timely, accurate, and actionable diagnostic information regarding a patient's medical condition. Identify the indications and appropriateness of imaging studies for common clinical problems. Elaborate the risks of medical imaging (including radiation induced cancer, MRI safety, contrast nephropathy, and contrast reactions). Construct the appropriate sequencing of exams and the limitations of diagnostic imaging tests,

including cost-effectiveness of imaging studies. Apply basic interpretive skills to evaluate common imaging studies – predominantly plain films and CT. Take part in imaging interpretation, including basic study identification, recognition of normal radiographic and cross-sectional anatomy, and common pathology as depicted on common studies. Explain how common procedures and imaging are performed. Utilize the PACS system to retrieve and review images.

RAD 812 In-house Radiology Elective

Number of Students: 4/Month

Locations: CNUCOM

Course Director: Randall Enstrom, MD

Offered as: 4-week rotation

General Description: Students will understand the basics and important normal and abnormal imaging findings in X-ray, CT, MRI and other imaging modalities. Clinical experience includes imaging case discussions and presentations. Perform, document, and present complete history and physical exam and interpret laboratory, radiologic, and other relevant data to develop a differential diagnosis, assessment and evidence-based management plan, that includes procedural or operative management if indicated. Perform and document a concise and well-organized daily progress note that includes relevant laboratory, radiologic data and incorporates pertinent 24-hr events. Describe the management of common disorders in the core discipline, including procedures and operative management if indicated. Research the clinical condition of a given patient with appropriate evaluation of literature and other available resources. Recognize patients who are critically ill or require emergent care and develop appropriate initial steps of care for stabilization Demonstrate sensitivity to the concerns of patients and their families regarding the patient's illness and communicate plans of care with compassion and empathy (including benefits, side-effects of therapy, quality of life and end-of-life issues).

RAD 816 Nuclear Medicine, Molecular Imaging and Theranostics

Number of Students: 1/Month

Locations: Kaiser Hospital-Roseville, Sacramento

Course Director: David Ng MD, FACP, FACNM with assistance from Erno Gyetvai MD, Andrew Klonecke MD, Judy Nguyen MD and Kit Tittiranonda MD

Offered as: 2-4-week rotation

General Description: Transition a MS4 to Intern/Resident Physician. Demonstrate knowledge of Nuclear Medicine items which pertain to USMLE Step 2. Demonstrate the ability to tackle what is the next step imaging test asked on standardized examinations. Demonstrate the ability to manage Hyperthyroid patients. Demonstrate the ability to gather a focused history on patients with Hyperthyroidism. Describe the appropriate utilization of cardiac imaging guidelines. Describe Fleishner criteria for management of pulmonary nodules (both solid and subsolid). Demonstrate the knowledge of basics of PET, molecular imaging and theranostics. Students will be under supervision of preceptor in the reading room and Thyroid clinic. Student will observe technologist acquiring images.

RAD 817 Dignity Hospital Radiology

Number of Students: 2/Month

Locations: Mercy San Juan Medical Center

Course Director: Brian Fellmeth, MD, MSJ Radiologists

Offered as: 2-4-week rotation

General Description: Understand the role of Diagnostic Imaging and Interventional Radiology in patient management. For those considering a career in Radiology, acquire insight on what the practice of Radiology is all about. Learn an approach for examining their patient's imaging studies as a non-radiologist. Learn how to image

efficiently and use Radiologic consultation as a resource. Learn the hazards of exposure to ionizing Radiation for diagnostic purposes. Learn the breath of Interventional Radiological procedures available to solve clinical problems. Learn the components of a Radiologic report and what can and cannot be expected. Shadow the activities of one of the 4 on site Radiologists. The student will be given the flexibility to choose which Radiologist to work with depending on their specific interests. Switching from one to the other during the day is acceptable if not encouraged.

RAD 818 Neuroradiology

Number of Students: TBD

Locations: Kaiser and others

Course Director: Anna Nidecker, MD., Jonathan Hartman, MD., et al

Offered as: 4-week rotation

General Description: Understand and learn neuroradiology as an extension of general radiology. Apply and understand neuroanatomy through neuroimaging. Apply and understand theories and practice of different neuroradiological entities. Apply and understand neuropathology through neuroimaging. Analyze cost-effectiveness of different neuroimaging entities. Regular learning and interaction on clinical sites with the preceptors.

SURGERY

SUR 801S Surgery Sub-I

Number of Students: 3/Month

Locations: Multiple

Course Director: Scott Braley, MD

Offered as: 4-week rotation

General Description: This elective will give the student the opportunity to participate, as a sub-intern, in the care of the general surgical patient. The student should choose between working on one of three services which is preferred, (including Colorectal, GI/Oncology, and Trauma-Critical Care) pending availability. You will function as a sub-intern, taking care of patients particularly assigned to you. In-house call one night in four, including weekends. Familiarity with the treatment and diagnosis of patients who have colorectal diseases, anorectal disorders, and GI tract emergencies. Learn to manage patients with lower GI surgical diseases. Opportunity for see patients in clinic and on the ward and discuss management with staff. Observe and assist in patient surgery in the Operating Room. Assist with minor procedures on the ward. Attend teaching conferences, Morbidity and Mortality Conferences, Tumor Board, etc.

SUR 881S Head and Neck Surgery

Number of Students: 1/Month

Locations: Kaiser Roseville

Course Director: Vishal Doctor, MD

Offered as: 4-week rotation

General Description: Understanding common head and neck pathologies and management strategies. Develop competency with the head and neck exam and identification of normal anatomy. Demonstrate understanding of head and neck surgical anatomy. Show familiarity with common head and neck pathology and basic management strategies. Demonstrate familiarity with common head and neck emergencies basic management strategies. Students will work with staff surgeons in clinic and operating room

SUR 882S Trauma Surgery

Number of Students: 2/Month

Locations: Mercy San Juan Hospital

Course Director: Amir Amiri, MD

Offered as: 4-week rotation

General Description: The Trauma Team responds to trauma resuscitations and is involved with immediate evaluation and management of critically injured patients in the emergency department. Students should demonstrate the initial evaluation and management of the trauma patient and basic principles of resuscitation in the emergency department and in the ICU/trauma ward. The student will also demonstrate the familiarity with physiology, management and outcome of multiple organ dysfunctions. They will gain exposure to procedure: central access, chest tube placement, wound debridements, tracheostomies, laceration repairs, etc. They will make use of the exposure to complex and difficult decision making involving the injured patient. Participate in the team caring for patients in floor and ICU rounds, OR cases, ER evaluations & ER/ICU/ward procedures. Students are expected to attend trauma department monthly meetings and case review. Specific dates and times will be provided at the beginning of each rotation.

CAR 880S Cardiovascular Surgery

Number of Students: 1/Month

Locations: Sutter Medical Center Sacramento

Course Director: Robert Kincade, MD

Offered as: 4-week rotation

General Description: Explain to students about basic cardiovascular physiology and surgical treatments. Interpret cardiovascular pathophysiology and develop basic surgical skills. Clinical experiences includes pre-assessment, operative experience, and post-operation care. Once a week in addition to cath, ECHO, and transplant conferences.

CAR 881S Cardiothoracic Surgery

Number of Students: TBD

Locations: Mercy San Juan Hospital

Course Director: Costanzo DiPerna, MD

Offered as: 4-week rotation

General Description: Students will be able to work with the cardiothoracic team led by Dr. DiPerna to gain exposure and knowledge about cardiothoracic surgery and the different conditions where this surgery is needed as well as pre- and post-operative management of patients. Analyze Lung Cancer, Esophageal Cancer, Thymus cancer, Airway Disease, Esophageal Reflux Disease, Diaphragm Disease, Chest wall issues, critical care for surgery, Lung Screening, Management of Stage IV cancers, Interventional Bronchoscopy and Esophagostomy. Clinical experiences includes rounds, seeing patients, consults, and surgery.

UROLOGY

INTUR 810 Urology Elective

Number of Students: 2/Month

Locations: Roseville, CA

Course Director: David Couillard, MD

Offered as: 4-week rotation

General Description: Obtain Informed consent for urological procedures. Demonstrate a working knowledge of the preoperative preparation and postoperative management of urological patients, including discharge planning. Demonstrate knowledge of various urological procedures, including their indications, non-surgical alternatives, risks, benefits and their expected outcomes. Demonstrate an advanced understanding of the performance of common urological procedures and participate actively in their performance. Demonstrate a working knowledge of basic surgical techniques, including patient positioning, suturing and assisting. Develop a knowledge of the common quality initiatives (I.e. deep vein thrombosis, infection that promote improved patient outcomes. and patient safety protocols).

INTERDISCIPLINARY ELECTIVES

MED 810 OSCE Program Assistance

Number of Students: 4/Session

Locations: CNUCOM

Course Director: Rudolph Holguin, MD

Offered as: 3 sessions every Tuesdays and Thursdays

Discretion: 40 hours = 4 credits, Avg. 10 hours/week

General Description: Review and improve history taking, physical exam and presentation skills by teaching and mentoring M1 & M2 students during their Medical Skills courses. Practice and demonstrate history taking, physical examination, and clinical presentation skills by teaching and mentoring M1 and M2 students during their Medical Skills course. Develop course related organizational skills to enhance the learning environment for M1 & M2 students during their Medical Skills course. Improve teaching skills for M1 & M2 students during their Medical Skills course. Apply self-directed learning methodologies to clinical skills.

COM 901 Honors Medical Research

Number of Students: TBD

Locations: CNUCOM

Course Director: TBD

Offered as: 2-6-week rotation

General Description: The student(s) (preferably a team of three students) must have a minimum of one faculty advisor, who must be a COM faculty, and can also have a non-COM faculty/community physician supervisor with whom the research is conducted. The supervisor should be familiar with research in the relevant discipline (s), to ensure that the direction and monitoring of the student's progress is informed by up to date subject knowledge and research developments. Breadth of experience and knowledge of the supervisor will mean that the student always has access to someone with experience of supporting research student(s) through to successful completion of their scholarly project. The students and supervisor must arrive to an agreement regarding the research topic, the timeline, and the amount of contact time for the progress of the project. The students are responsible for taking the CITI courses (a basic course for all students, and a more oriented course for those students that need IRB approval). The students are responsible for other aspects of the project, including enlisting the aid of any required supervisor, coordinating communication with the supervisor and the Course Director, helping the supervisor in obtaining the necessary protocol approvals (IRB, IACUCC, IBC) if needed, developing the hypothesis of work, performing the planned study, preparing a document with the results, data analysis, and conclusions, and preparing the poster for the Research Day.

COM 903 Leadership

Number of Students: TBD

Locations: CNUCOM

Course Director: Louise F. Glaser, MD
Offered as: 2-week rotation

General Description: Given the complex and demanding environment of healthcare, effective leadership is often required to meet these challenges. This course is designed to provide you with tools to give you access to being who you, need to be, to be a leader, and to exercise leadership effectively as you encounter each of these challenges. This course is a leadership laboratory in which you will discover that leadership does not always mean a position, a title, time, money, influence, or any of the traits typically “required” to be a leader or produce the results of a leader. Instead of more knowledge about leadership, you will gain access to actually being a leader and effectively exercising leadership as your natural self-expression, in any situation and under any circumstances.

COM 904 Healers Art

Number of Students: TBD

Locations: CNUCOM

Course Director: Louise F. Glaser, MD, Rochelle Frank, MD

Offered as: TBD

General Description: The Healers Art Course is a defined curriculum created in 1991 by Dr. Rachel Remen (Professor, UCSF School of Medicine) is currently being taught in over 90 medical schools. The purpose of the course is to explore the human dimension of health care including learning self-care strategies and recognizing the value of service. Topics covered will include defining an individual’s purpose and commitment in medicine, tools to deal with grief and loss, recognizing awe and mystery in the practice of medicine, and open dialogue about mission and service. The course and its small group discussions offer an opportunity for open dialogue, depth of discussion and interaction with faculty that is unique and not available in other areas of the curriculum.
COM 906 United States Armed Services Officer Training

HLT 810 Wellness - Leadership, Healers Art, Mindfulness and Compassionate Conversations

Number of Students: 10-15, or more with notice

Locations: CNUCOM

Course Director: Louise Glaser, MD and Rochelle Frank, MD

Offered as: 4 weeks rotation in March 2019

General Description: This course includes: Being a Leader (Glaser), Healers Art (Frank), Mindfulness and Meditation (Gerriets/Glaser) and Compassionate Conversations/Reflective writing (pending). The components of the elective are intentionally symbiotic and will allow for each of you to expand you capacity for self-care, self-reflection, and clarity, intention and integrity in your being and actions as leaders for yourself, your family and friends and in your career. Skills introduced in the course will also provide you ways to maintain compassion with yourself and patients throughout your career. There will be some assignments to enhance the value of the course content including some reflective writing, some mindfulness practices and a Leadership Project. The leadership project is an opportunity to look at and make an impact on something in your own life that matters to you: increase your performance in some area of life, alter something that is not working as well as you’d like, something that you have always wanted to do and never quite got it done, an upgrade to relationships with family or friends, an increase your level of health or fitness and more.

HLT 812 Clinical Nutrition

Number of Students: TBD

Locations: Fair Oaks, CA

Course Director: Judy Fields, MHS, RD, FADA

Offered as: 2-6-week rotation

General Description: To cover nutrition thru the life cycle of your future patients: anemia, cancer, hypertension, cardiovascular disease, diabetes, infancy, pediatrics, pregnancy and lactation, aging and chronic disease, obesity, sports, stress and nutrition support, and supplements.