COURSE CHAIR: Karl Falkenbach, MD. (818) 364-4097

SUPPORTING FACULTY:
Drs. S. Rooholamini, M. Small, G. Hansen, and A. Au

STUDENT COORDINATOR:
Lillie Francisco/Christina Zamora (818) 364-4566
E-MAIL: lfrancisco@dhs.co.la.ca.us
czamora@dhs.co.la.ca.us

REPORT TO: Lillie Francisco, Room 2D131, Olive View Medical Center, 9:00 a.m.

PREREQUISITES: Medicine and Surgery

AVAILABLE TO EXTERNS: Yes

STUDENTS / PERIOD: max 2 min 1

DURATION: 3 weeks

2004–2005 ROTATIONS BEGIN WEEKS:
By Arrangement

DESCRIPTION: Assignments will be made to various sections of the Radiology Department to observe how examinations are performed (fluoroscopy, ultrasound, nuclear medicine, computed tomography, angiography, interventional procedures). The students will observe and participate in intra and extra departmental conferences. Individual tutorials will be conducted for the students in the different sections of the department.

STUDENT EXPERIENCES

COMMON PROBLEMS/DISEASES
1. Trauma
2. Alcoholism
3. Drug abuse
4. Tuberculosis
5. Parasites
6. Surgical emergencies
7. Pediatric emergencies
8. Medical emergencies

INPATIENT: 40%
OUTPATIENT: 60%
CONSULTATION: 100%
PRIMARY CARE: 0%

CLOSE CONTACT WITH:
X FULL TIME FACULTY
X CLINICAL FACULTY
FELLOWS
X RESIDENTS
INTERNS
OTHER

APPROXIMATE # OF PATIENTS EVALUATED EACH WEEK BY STUDENT: NA

TOTAL # OF PATIENTS EVALUATED EACH WEEK BY ENTIRE SERVICE: 2,250

TYPICAL WEEKLY SCHEDULE

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<tr>
<td>AM</td>
<td>Rounds</td>
<td>Film Reading, E.R.</td>
<td>Rounds</td>
<td>Film Reading, E.R.</td>
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<td>Medicine Noon Conference</td>
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<tr>
<td>PM</td>
<td>Radiology Noon Conference</td>
<td>Radiology Noon Conference</td>
<td>Radiology Noon Conference</td>
<td>Radiology Noon Conference</td>
<td>12:00 Morbid &amp; Mortality Conference (2nd Friday of each mo.) Radiology Noon Conference</td>
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<td>Film Reading/Teaching File</td>
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<td>Film Reading Noon Conference</td>
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</table>

ON-CALL SCHEDULE & WEEKEND ACTIVITIES: N/A

ADDITIONAL COMMENTS AND OTHER SPECIAL REQUIREMENTS: Assignments will be made to review the American College of Radiology Learning Laboratory.
RA220.02 BASIC EMERGENCY IMAGING

Advanced Clinical Clerkship Location: KDMC

2004–2005 1/13/04

COURSE CHAIR:  PHONE #:
Joseph Jorgens, M.D. (310) 668-4702

SUPPORTING FACULTY: Drs. R. Cook, J. Gaspar, A. Lee, T. Miller, V. Payne, J. Sun, E. Surprenant, and C. Schiepers

STUDENT COORDINATOR:  PHONE #:
Irene Rodriguez (310) 668-4701

REPORT TO: Radiology Department King/Drew Medical Center, Room 1E-21.

PREREQUISITES: Third Year Level, U.S. Medical School

COURSE OBJECTIVES (in order of importance)
1. To teach how to order radiologic examinations appropriately and judiciously.
2. To develop an understanding of the role of the Radiologist on the health care team and the relationship of radiology to the other clinical disciplines.
3. To develop an appreciation of the Radiologist’s needs for adequate clinical history and a clear statement of indications for examinations being requested.
4. To develop knowledge of the basics of plain film and special examinations (C.T., ultrasound, nuclear medicine, and angiography) as they apply to the Emergency Room patient.
5. Teach the basic logic of interpretation of diagnostic images.

DESCRIPTION:
Ordering the wrong or incomplete x-ray exam can have a disastrous effect on the critically ill patient. Frequently unnecessary studies are requested as a screening procedure to help deal with a large number of patients. Communicating the nature of the clinical problem to the Radiologists has many advantages.

STUDENT EXPERIENCES

COMMON PROBLEMS/DISEASES
1. Multisystem penetrating & nonpenetrating trauma
2. Acute cardiac emergency
3. Acute pulmonary emergency
4. Acute seizure disorder
5. Nontraumatic surgical emergency

INPATIENT: 20%  CLOSE CONTACT WITH:
OUTPATIENT: 80%  X FULL TIME FACULTY
CONSULTATION: 50%  X CLINICAL FACULTY
PRIMARY CARE: 50%  X FELLOWS
OTHER
X RESIDENTS
X INTERNS

APPROXIMATE # OF PATIENTS EVALUATED EACH WEEK BY STUDENT: 1,000
TOTAL # OF PATIENTS EVALUATED EACH WEEK BY ENTIRE SERVICE: 12,000

TYPICAL WEEKLY SCHEDULE

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<tr>
<td>AM</td>
<td>7:00 – 8:00 Radiology Trauma Conf. 8:00 – 9:30 Emergency Radiology Film Review 9:30 – 10:30 Abdomen Film Review 10:30 – 11:30 Review Chest Films</td>
<td>7:00 – 8:00 Radiology Trauma Conf. 8:00 – 9:30 Emergency Radiology Film Review 9:30 – 10:30 Pediatric Film Review 10:30 – 11:30 Review Chest Films</td>
<td>7:00 – 8:00 Radiology Trauma Conf. 8:00 – 9:30 Film Review 9:30 – 10:30 Pediatric Film Review 10:30 – 11:30 Review Chest Films</td>
<td>7:00 – 8:00 Radiology Trauma Conf. 8:00 – 9:30 Emergency Radiology Film Review 9:30 – 10:30 Chest Film Review 10:30 – 11:30 Review Chest Films</td>
<td>7:00 – 8:00 Radiology Trauma Conf. 8:00 – 9:30 Emergency Radiology Film Review 9:30 – 10:30 Emergency Radiology Film Review 9:30 – 10:30 Chest Film Review 10:30 – 11:30 Review Chest Films</td>
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<tr>
<td>PM</td>
<td>12:00 – 1:00 Noon Conference 3:00 – 5:00 Learning Lab</td>
<td>12:00 – 1:00 Noon Conference 3:00 – 5:00 Body CT Film Review</td>
<td>12:00 – 1:00 Noon Conference 3:00 – 5:00 Nuclear Medicine Film Review</td>
<td>12:00 – 1:00 Noon Conference 3:00 – 5:00 Ultrasound Film Review</td>
<td>12:00 – 1:00 Noon Conference 3:00 – 5:00 Learning Lab</td>
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ON-CALL SCHEDULE & WEEKEND ACTIVITIES:

ADDITIONAL COMMENTS AND OTHER SPECIAL REQUIREMENTS:
COURSE CHAIR: Michael Zucker, M.D.  PHONE #: (310) 206-7861

SUPPORTING FACULTY: None

STUDENT COORDINATOR: Lara Gold  PHONE #: (310) 825-5806  E-MAIL: lgold@mednet.ucla.edu

REPORT TO: Dr. Zucker at 9:00 a.m. in room B2-300 CHS

PREREQUISITES: None

AVAILABLE TO EXTERNS: Yes

STUDENTS / PERIOD: max 3 min 0

DURATION: 3 weeks

2004–2005 ROTATIONS BEGIN WEEKS:
5, 8, 11, 14, 17, 22, 27, 30, 33, 36, 39, 42, 45

DESCRIPTION: This course is designed to familiarize the student with basic Emergency Department Radiology Imaging in both trauma and non-trauma situations.

COURSE OBJECTIVES (in order of importance)
1. Knowledge of all aspects of plain film evaluation of emergency department patients.
2. Radiological management of major trauma.
3. Learn appropriate ordering of radiology imaging.
4. Introduction to CT use in trauma.
5. Learn basic interpretive skills for chest, bone and abdomen radiographs.
6. Learn how to be consultants to the emergency physicians.
7. Knowledge of major diseases that present to emergency departments.

STUDENT EXPERIENCES

COMMON PROBLEMS/DISEASES
1. Major Blunt Trauma
2. Penetrating Trauma
3. Pneumonia
4. Heart Failure
5. Fractures
6. Dislocations
7. Bowel Obstruction
8. Bowel Perforation

INPATIENT: 0%  OUTPATIENT: 100%  CONSULTATION: 40%  PRIMARY CARE: 60%

CLOSE CONTACT WITH:
1:1 FULL TIME FACULTY
CLINICAL FACULTY
FELLOWS
1:1 RESIDENTS
X OTHER Medicine, Family Medicine, & Emergency Medicine Residents

APPROXIMATE # OF PATIENTS EVALUATED EACH WEEK BY STUDENT: 250

TOTAL # OF PATIENTS EVALUATED EACH WEEK BY ENTIRE SERVICE: 525

TYPICAL WEEKLY SCHEDULE

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<td>AM</td>
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<td>9:00 – 11:30 Film Radiology</td>
<td>8:00 – 9:00 Trauma Conference</td>
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ON-CALL SCHEDULE & WEEKEND ACTIVITIES: None

ADDITIONAL COMMENTS AND OTHER SPECIAL REQUIREMENTS:
Advanced Clinical Clerkship | Location: KDMC | 2004–2005 | 1/13/03

COURSE CHAIR: Robert Cook, M.D. (310) 668-4701

SUPPORTING FACULTY: Drs. J. Jorgens, A. Lee, J. Owens, E. Suprenant

STUDENT COORDINATOR: Irene Rodriguez/Rochelle Pruitt (310) 668-4701

REPORT TO: Irene Rodriguez - King Drew Medical Center, Room 1E-21, 9:00 a.m.

PREREQUISITES: 3rd Year Level in U.S. Medical School

COURSE OBJECTIVES (in order of importance)
1. To utilize the ultrasound and Computed Tomography Laboratories in an appropriate and cost-effective manner to solve common clinical problems.
2. To demonstrate knowledge of the two modalities by listing three circumstances in which computed tomography of the abdomen would be preferable to ultrasound.
3. To demonstrate knowledge of the two modalities by listing three circumstances in which ultrasound of the abdomen would be preferable to C.T.
4. To demonstrate the ability to identify the following normal structures: kidneys, pancreas, liver, gall bladder, spleen, aorta, inferior vena cava.

AVAILABLE TO EXTERNS: No

STUDENTS / PERIOD: max 1 min 1

DURATION: 2 weeks

2004–2005 ROTATIONS BEGIN WEEKS: By Arrangement

DESCRIPTION:

STUDENT EXPERIENCES

COMMON PROBLEMS/DISEASES
1. Cholecystitis
2. Appendicitis
3. Renal trauma
4. Hepatic and splenic trauma
5. Pancreatitis
6. Abdominal masses
7. Ectopic pregnancies
8. Deep venous thrombosis

INPATIENT: 50%
OUTPATIENT: 50%
CONSULTATION: 100%
PRIMARY CARE: 0%

CLOSE CONTACT WITH:
- FULL TIME FACULTY
- CLINICAL FACULTY
- FELLOWS
- RESIDENTS
- INTERNS
- OTHER Technologists

APPROXIMATE # OF PATIENTS EVALUATED EACH WEEK BY STUDENT: 63

TOTAL # OF PATIENTS EVALUATED EACH WEEK BY ENTIRE SERVICE: 63

TYPICAL WEEKLY SCHEDULE

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<td>PM</td>
<td>12:00 Diagnostic Conference</td>
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<td>1:30 Ultrasound Conference</td>
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ON-CALL SCHEDULE & WEEKEND ACTIVITIES:

ADDITIONAL COMMENTS AND OTHER SPECIAL REQUIREMENTS: Instead of a rotation that devotes approximately equal time in C.T. and ultrasound, the student may elect to devote his/her entire time to either of the above areas.
Advanced Clinical Clerkship

Location: CHS

COURSE CHAIR: Michael T. Selch, M.D.
PHONE #: (310) 825-4966

SUPPORTING FACULTY: Radiation Oncology Faculty

STUDENT COORDINATOR: Mel Fleetwood
PHONE #: (310) 206-8783
E-MAIL: mfleetwood@mednet.ucla.edu

REPORT TO: Department of Radiation Oncology
200 Medical Plaza, Suite B265, 8:00 a.m.

PREREQUISITES: None

AVAILABLE TO EXTERNALS: Yes

STUDENTS / PERIOD: max 2 min 1

DURATION: 2 weeks

2004–2005 ROTATIONS BEGIN WEEKS:
2,3,5,7,9,11,13,15,17,19,21,23,25,27,29,31,33,35,37,39,41,43,45,47,49,51

COURSE OBJECTIVES (in order of importance)
1. Knowledge of the natural history of cancer.
2. Treatment planning for oncology patients, stressing radiation therapy.
3. Diagnostic evaluation of cancer patients.
5. Experience with interstitial and intracavitary radiation.
6. Dosimetric procedures necessary in planning radiation therapy.
7. An understanding of curative versus palliative planning in cancer patient management.
8. Exposure to advanced radiotherapy technologies.

DESCRIPTION: Students will evaluate both new and follow-up patients with resident/faculty supervision. Participation in specialized programs (i.e., radiosurgery, brachytherapy) is available to interested students. A full range of conferences, including multiple dedicated tumor boards, is also available to students.

STUDENT EXPERIENCES

COMMON PROBLEMS/DISEASES
1. Breast cancer
2. Lung cancer
3. Brain tumors
4. Head & neck cancer
5. Soft tissue sarcomas
6. Prostate cancer
7. Lymphoma/leukemia
8. Metastases

CLOSE CONTACT WITH:
X FULL TIME FACULTY
X RESIDENTS
X OTHER Nurse, Social worker, Physicists, Technologists, Dosimetrist

APPROXIMATE # OF PATIENTS EVALUATED EACH WEEK BY STUDENT: 3

TOTAL # OF PATIENTS EVALUATED EACH WEEK BY ENTIRE SERVICE: 16

TYPICAL WEEKLY SCHEDULE

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<tbody>
<tr>
<td>AM</td>
<td>8:00 – 9:00 New Patient Conf. 9:00 – 12:00 New Patient Consultation and Follow-Up Clinic</td>
<td>8:00 – 12:00 Examination &amp; Eval. of Patients Under Treatment</td>
<td>8:00 – 9:00 New Patient Conf. 9:00 – 11:00 New Patient Consultation and Follow-Up Clinic 11:00 – 12:00 CNS Conference</td>
<td>8:00 – 9:00 New Patient Conf. 9:00 – 12:00 New Patient Consultation and Follow-Up Clinic</td>
<td>7:00 – 8:30 Physics/Radiobiology Lecture 9:00 – 12:00 New Patient Consultation and Follow-Up Clinic</td>
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<td>12:00 – 1:00 Gyn Conference 1:00 – 4:00 Examination &amp; Eval. of Patients Under Treatment</td>
<td>2:00 – 4:00 New Patient Consultation and Follow-Up Clinic</td>
<td>1:00 – 2:30 Joint Conference Head &amp; Neck Oncology</td>
<td>12:00 – 1:30 Chart Rd. 1:00 – 4:00 New Patient Consultation and Follow-Up Clinic 4:30 Musculoskeletal Conference</td>
<td>1:00 – 2:30 Physics/Radiobiology Lecture 2:30 – 4:00 Journal Club</td>
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</table>

ON-CALL SCHEDULE & WEEKEND ACTIVITIES: None

ADDITIONAL COMMENTS AND OTHER SPECIAL REQUIREMENTS: Although the clerkship is for two weeks, four week electives will be considered.
COURSE CHAIR: Kenneth Lodin, M.D. (323) 783-3609


STUDENT COORDINATOR: Steve Valencia (323) 783-4516

REPORT TO: Kenneth Lodin, Center for Medical Education, 4733 Sunset Blvd, 3rd Floor at 8:30 a.m.

PREREQUISITES: Medicine, OB/GYN, and Surgery

AVAILABLE TO EXTERNS: No

STUDENTS / PERIOD: max 3 min 1

DURATION: 3 – 4 weeks (for 4 weeks enroll as "By Arrangement")

2004–2005 ROTATIONS BEGIN WEEKS: 3, 6, 9, 12, 15, 18, 21, 27, 30, 33, 36, 39, 42, 45, 48

DESCRIPTION: This department is the largest tertiary care radiation oncology center in Southern California. The student will get an opportunity to work with the radiation oncology residents in evaluating new patients, plan patients for radiation treatments and follow the patient during the treatment and evaluate the outcome. The student will have the opportunity to attend the biweekly staff conference, Journal Club and weekly outside speaker presentation. In addition, they will be participating in multidisciplinary Head & Neck Cancer Clinic, Rectal Cancer Clinic, Gyn-Oncology Clinic and Breast Cancer Clinic. At the end of the course the student is required to give a presentation on a specific choice that is selected by the course director.

STUDENT EXPERIENCES

COMMON PROBLEMS/DISEASES
1. Carcinoma
2. Lymphoma
3. Carcinoma of rectum
4. Prostate carcinoma
5. Sarcoma
6. Childhood cancer

INPATIENT: 0%
OUTPATIENT: 100%
CONSULTATION: 100%
PRIMARY CARE: 0%

CLOSE CONTACT WITH:
X FULL TIME FACULTY
CLINICAL FACULTY
FELLOWS
X RESIDENTS
INTERNS
OTHER

APPROXIMATE # OF PATIENTS EVALUATED EACH WEEK BY STUDENT: 6

TOTAL # OF PATIENTS EVALUATED EACH WEEK BY ENTIRE SERVICE: 200

TYPICAL WEEKLY SCHEDULE

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<tr>
<td>AM</td>
<td>Combined Head &amp; Neck Cancer Follow-up Clinic Treatment, Consults, Simulation</td>
<td>Cancer Comm. Dept. Conference Radiosurgery Clinic Pediatric Clinic Consult, Treatment, Simulation</td>
<td>Consult, Simulation Treatment Brachytherapy Radiosurgery</td>
<td>Dept. Conference Patient/Consult, Treatment Rectal Clinic</td>
<td>Gyn-Oncology RT Follow-up Clinic Head/Neck Clinic Consult Simulation, Treatment</td>
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<tr>
<td>PM</td>
<td>Head &amp; Neck Cancer Clinic Consultation Treatment Consults Simulation</td>
<td>Combined Gyn-Oncology/RT Clinic Brachytherapy Treatment Consults Simulation</td>
<td>Breast Cancer Clinic</td>
<td>Combined Rectal Clinic, Consults Brachytherapy Treatment Consults Simulation</td>
<td>Consult, Treatment, Simulation Physics Biology Lectures</td>
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</table>

ON-CALL SCHEDULE & WEEKEND ACTIVITIES: N/A

ADDITIONAL COMMENTS AND OTHER SPECIAL REQUIREMENTS:
RA250.01 DIAGNOSTIC RADIOLOGY

Advanced Clinical Clerkship

Location: CHS

COURSE CHAIR: Dr. Theodore Hall
PHONE #: (310) 825-7939

SUPPORTING FACULTY:
Aberle, Bentson, Boechat, Czernin, Kadell, Seeger, Zucker, Suh, Brown, Raman, Lufkin, and Batra

STUDENT COORDINATOR: Lara Gold
PHONE #: (310) 825-5806
E-MAIL: lgold@mednet.ucla.edu

REPORT TO: Dept. of Radiological Sciences, B3-120 CHS at 8:30 a.m., first day of elective (call when a holiday).

COURSE OBJECTIVES (in order of importance)
1. Introduction to diagnosis of x-ray examinations at the diagnostic work station.
2. Develop an understanding of indications, contraindications, and cost effectiveness for common radiographic examinations.
3. Expansion of medical and radiologic knowledge by exposure to departmental didactic and case conferences.
4. Know how to use a radiologist as a consultant.

PREREQUISITES: Radiology or equivalent. Recommended: Medicine and/or Surgery

AVAILABLE TO EXTERNALS: Yes

STUDENTS / PERIOD: max 4 min 1

DURATION: 3 weeks

2004–2005 ROTATIONS BEGIN WEEKS:
6, 9, 12, 15, 18, 27, 30, 33, 36, 41, 44

DESCRIPTION:
While the emphasis is on introduction to diagnosis at the clinical workstation, the student will participate in all educational activities such as lectures and conferences. Students will rotate through sub-specialty areas at one week intervals or for two or three week blocks in Abdominal, Emergency, Head & Neck, Musculoskeletal, Neuroradiology, Nuclear Medicine, Pediatric and Thoracic imaging. *These disciplines have separate three-week block electives for those looking for a longer, focused exposure.

STUDENT EXPERIENCES

COMMON PROBLEMS/DISEASES
1. Neuroradiologic
2. Genitourinary
3. Musculoskeletal
4. Pediatric
5. E R
6. Thoracic
7. Gastrointestinal

INPATIENT: 70%
OUTPATIENT: 30%
CONSULTATION: NA%
PRIMARY CARE: NA%
CLOSE CONTACT WITH:
X FULL TIME FACULTY
X CLINICAL FACULTY
X FELLOWS
X RESIDENTS
X INTERNS
OTHER

APPROXIMATE # OF PATIENTS EVALUATED EACH WEEK BY STUDENT: NA

TOTAL # OF PATIENTS EVALUATED EACH WEEK BY ENTIRE SERVICE: 3,125

TYPICAL WEEKLY SCHEDULE

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ON-CALL SCHEDULE & WEEKEND ACTIVITIES:

ADDITIONAL COMMENTS AND OTHER SPECIAL REQUIREMENTS: Required Attendance: Departmental Noon Case Conferences (Dowdy Classroom) 12:00 – 1:00 p.m., Monday – Thursday. Each student will be expected to give a case presentation using PowerPoint at the end of the elective.

*** (Didactic lectures and case conferences on alternate Thursdays)
RA250.02  DIAGNOSTIC RADIOLOGY

Advanced Clinical Clerkship  Location:  OVH

COURSE CHAIR: Karl Falkenbach, M.D.  PHONE #: (818) 364-4097

SUPPORTING FACULTY: Drs. A. Au, K. Falkenbach, G. Hansen, F. Kioumehr, M. Small, and S. Roohohamini

STUDENT COORDINATOR: Lillie Francisco  PHONE #: (818) 364-4566  E-MAIL: lfrancisco@dhs.co.la.ca.us  FAX: (818) 364-3672

REPORT TO: Lillie Francisco, Room 2D131, Olive Medical Center, 9:00 a.m.

COURSE OBJECTIVES (in order of importance)
1. To correlate radiology to medical evaluations.
2. To see and to participate in the diagnosis of current hospital patients.
3. To relate radiological modalities, such as nuclear medicine, ultrasound, roentgen diagnosis, and contrast studies to the altered or pathological, anatomical, psychological, or hormonal states of the patient.
4. To improve medical judgment, analysis, and synthesis.
5. To understand indications for different radiological procedures

DESCRIPTION: Learning in this hospital-based course will be augmented by use of autonomous learning files, case work-ups, presentations and daily tutorials.

STUDENT EXPERIENCES
COMMON PROBLEMS/DISEASES
1. Acute & chronic pulmonary disease
2. Gastrointestinal tract abnormalities
3. Cancer
4. Tuberculosis
5. Hepato biliary disease
6. Cardiovascular disorders
7. Neuroradiology
8. Urinary disorders

INPATIENT: 40%  OUTPATIENT: 60%  CONSULTATION: 100%  PRIMARY CARE: 0%

CLOSE CONTACT WITH:
X FULL TIME FACULTY
X CLINICAL FACULTY
X RESIDENTS
OTHER

APPROXIMATE # OF PATIENTS EVALUATED EACH WEEK BY STUDENT: NA
TOTAL # OF PATIENTS EVALUATED EACH WEEK BY ENTIRE SERVICE: 2,250

TYPICAL WEEKLY SCHEDULE

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<tbody>
<tr>
<td>AM</td>
<td>Radiology/Internal Med/ Pediatric Rounds</td>
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<td></td>
<td>Fluoroscopy</td>
<td>Neuroradiology Conference</td>
<td>Medicine Noon Conference</td>
<td>Learning Lab</td>
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<td></td>
<td>Film Interpretation</td>
<td>Nuclear Medicine</td>
<td>Chest/GI Conferences</td>
<td>Nuclear Medicine</td>
<td>Tumor Board</td>
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<td>12:00 Morbid and Mortality Conf. (2nd Friday of every month)</td>
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<td>Film Interpretation</td>
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ON-CALL SCHEDULE & WEEKEND ACTIVITIES: None

ADDITIONAL COMMENTS AND OTHER SPECIAL REQUIREMENTS:
COURSE OBJECTIVES (in order of importance)
1. The student will develop an approach to reading routine plain films, and will be able to recognize common and important pathologic processes.
2. The student will develop a basic knowledge of body CT and neuro CT anatomy, and will be able to recognize major pathologic processes, such as tumor, inflammation, traumatic injuries, vascular abnormalities.
3. The student will develop an understanding of the appropriate use of ultrasound, MRI, and nuclear medicine in diagnosis and treatment.
4. The student will develop a basic understanding of Radiation Therapy.

DESCRIPTION:
During the first two weeks of the elective, the student will attend and participate in conferences which cover the various areas in imaging, i.e., GI/GU, pediatric, bone, neuroradiology, CT/MRI/ultrasound, nuclear medicine, and radiation therapy. During the third week the students may attend film review session in the area(s) of their choice, observe radiologic and interventional procedures, and make use of the radiology teaching file. Students are required to attend the lectures/conferences which are provided by our radiology staff which cover the different areas in imaging.

STUDENT EXPERIENCES

COMMON PROBLEMS/DISEASES
1. Neuroradiology: stroke, tumor, trauma
2. GU: stones/obstruction, pyelonephritis, tumor
3. Musculoskel. fracture, arthritis, tumor, benign normal variants
4. Pediatrics: congenital abnormalities, prematurity
5. GI: obstruction, GI tract cancer, inflammatory conditions (appendicitis, colitis, diverticulitis)

INPATIENT: 40%  OUTPATIENT: 20%  ER: 40%  CONSULTATION: N/A  PRIMARY CARE: N/A

CLOSE CONTACT WITH:
X FULL TIME FACULTY
X CLINICAL FACULTY
X FELLOWS
X RESIDENTS
X INTERNS
X OTHER Technicians

APPROXIMATE # OF PATIENTS EVALUATED EACH WEEK BY STUDENT: NA

TYPICAL WEEKLY SCHEDULE

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<tr>
<td>AM</td>
<td>9:00 – 11:00 Learning Lab</td>
<td>8:30 – 11:00 Angio or Body Imaging, CT &amp; UTS</td>
<td>9:00 – 11:00 Nuclear Medicine or UTS</td>
<td>9:00 – 11:00 Radiation Therapy or Learning Lab</td>
<td>9:00 – 11:00 Neuro</td>
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<td>PM</td>
<td>1:00 – 4:00 Bone or Pediatrics</td>
<td>1:00 – 4:00 CT/MRI or GI/GU</td>
<td>1:00 – 4:00 Learning Lab</td>
<td>1:00 – 4:00 Interventional</td>
<td>1:00 – 4:00 Learning Lab</td>
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ON-CALL SCHEDULE & WEEKEND ACTIVITIES: No call.

ADDITIONAL COMMENTS AND OTHER SPECIAL REQUIREMENTS: On the last day of the elective students are required to turn in a written description of exactly what they did and what they learned while on the elective.
COURSE OBJECTIVES (in order of importance)
Upon completion of the course, the student will be able to:

1. Use the resources of the Radiology Department in an appropriate and cost-effective way to solve certain common clinical problems.
2. Correlate Roentgen Anatomy and Pathology with that previously learned in basic science courses.
3. Describe in brief the generation of Diagnostic X-Ray and its effect on living tissue.
4. List some of the newer modalities of Diagnostic Imaging which may have a long-term impact on the field of Radiology.

STUDENT EXPERIENCES

COMMON PROBLEMS/DISEASES

<table>
<thead>
<tr>
<th>INPATIENT: 50%</th>
<th>OUTPATIENT: 50%</th>
<th>CONSULTATION: 100%</th>
<th>PRIMARY CARE: 0%</th>
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<tbody>
<tr>
<td>1. Pneumonia</td>
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<td>2. Congestive heart failure</td>
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<td>3. Acute Appendicitis</td>
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<td>4. Bowel Obstruction</td>
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<td>5. Common fractures of extremities</td>
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<td>6. Head Trauma</td>
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<td>7. Urinary tract infection</td>
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CLOSE CONTACT WITH:

- FULL TIME FACULTY
- CLINICAL FACULTY
- FELLOWS
- RESIDENTS
- INTERNs
- OTHER

APPROXIMATE # OF PATIENTS EVALUATED EACH WEEK BY STUDENT: NA

TOTAL # OF PATIENTS EVALUATED EACH WEEK BY ENTIRE SERVICE: NA

TYPICAL WEEKLY SCHEDULE

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<td></td>
<td>Inpatient Radiology</td>
<td>GU Radiology</td>
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<td>GI Radiology</td>
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ON-CALL SCHEDULE & WEEKEND ACTIVITIES:

ADDITIONAL COMMENTS AND OTHER SPECIAL REQUIREMENTS: Instead of a rotation in the general field of Diagnostic Radiology, the student may elect to concentrate in one of the sub-specialty areas offered by the department. *Wong, Vasinrapee
COURSE OBJECTIVES (in order of importance)

1. The student will refine his/her skills in film interpretation of common pathologic processes.

2. The student will develop an understanding of technical factors which limit film interpretation.

3. The student will develop an understanding of the appropriate use of advanced imaging techniques such as MRI and nuclear medicine.

DESCRIPTION:

Students are expected to attend film review sessions in the area(s) of their choice, e.g., ER, neuroradiology, body CT, MRI, pediatrics, nuclear medicine, ultrasound, mammography. Students are also encouraged to observe radiologic and interventional procedures, and make use of the radiology teaching file. If a student wishes to concentrate his/her time within a particular specialty in radiology, it is advisable to obtain permission of the attending who heads that area prior to scheduling the rotation.

STUDENT EXPERIENCES

COMMON PROBLEMS/DISEASES

1. Neuroradiology: stroke, tumor, trauma
2. GU: stones/obstruction, pyelonephritis, tumor
3. Musculoskeletal fracture, arthritis, tumor, benign normal variants
4. Pediatrics: congenital abnormalities, prematurity
5. Thoracic: inflam (pneumonia, TB), primary & metastatic cancer, pneumothorax/effusion, inhalational, COPD
6. GI: obstruction, GI tract cancer, inflammatory conditions (appendicitis, colitis, diverticulitis
7. Hepatobiliary: cholecystitis, benign and malignant tumors, biliary obstruction, pancreatitis
8. Cardiovascular: valve disease, CHF, dissection and aneurysm, traumatic injury, grafts

INPATIENT: 40%
OUTPATIENT: 20%
CLOSE CONTACT WITH:
X FULL TIME FACULTY
X CLINICAL FACULTY
X FELLOWS
X RESIDENTS
X INTERNS
X OTHER Technicians

CONSULTATION: N/A
PRIMARY CARE: N/A

APPROXIMATE # OF PATIENTS EVALUATED EACH MONTH/STUDENT: NA
TOTAL # OF PATIENTS EVALUATED EACH MONTH BY ENTIRE SERVICE: 7,500

TYPICAL WEEKLY SCHEDULE

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<tr>
<th>AM</th>
<th>Monday</th>
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<tbody>
<tr>
<td></td>
<td>Attend film review in ER</td>
<td>Attend film review in Neuro CT</td>
<td>Attend film review in Pediatrics</td>
<td>Attend film review in ER</td>
<td>8:00 Interdepartmental Neuroradiology conf.</td>
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<td>Review films in teaching library</td>
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<td>11:00: Bone conference</td>
<td>Observe CT guided procedure</td>
<td>Attent film review in Neuro CT</td>
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<td>PM</td>
<td>Attent film review in Neuro MRI</td>
<td>Attend film review in Body CT</td>
<td>Attend film review in ER</td>
<td>12:00 Chest conference</td>
<td>12:00 Body Imaging conference</td>
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<td></td>
<td>Attend film review in Nuclear Medicine</td>
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<td>Observe interventional procedure</td>
<td>Attent film review in Body CT</td>
<td>Review films in teaching library</td>
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ON-CALL SCHEDULE & WEEKEND ACTIVITIES: No call.

ADDITIONAL COMMENTS AND OTHER SPECIAL REQUIREMENTS: Students are required to attend conferences for radiology residents.
COURSE OBJECTIVES (in order of importance)
1. To familiarize the medical student with neuroanatomy and neuropathology, including the brain, spine, head and neck.
2. Knowledge of embryology and pathophysiology of different CNS disorders.
3. Differential diagnosis of CNS lesions using imaging modalities and clinical laboratory findings.

DESCRIPTION:
The student will share responsibility with a resident or occasionally a fellow in the Neuroradiology/MRI reading section. Approximately 15 brain or spine and neck CT scans and 10 MRIs will be evaluated per day with in-depth discussion of neuroanatomy and neuropathology. Differential diagnosis will be discussed and clinical correlation and laboratory findings will be used to reach a diagnosis. There is a variety of usual and unusual advanced pathology from trauma, tumors, infarcts, infection, etc.

COMMON PROBLEMS/DISEASES
1. Trauma
2. Tumor
3. Infarct
4. Infection

INPATIENT: 50%
OUTPATIENT: 50%
CONSULTATION: 100%
PRIMARY CARE: 0%

APPROXIMATE # OF PATIENTS EVALUATED EACH WEEK BY STUDENT: 120
TOTAL # OF PATIENTS EVALUATED EACH WEEK BY ENTIRE SERVICE: 120
TYPICAL WEEKLY SCHEDULE

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<td>AM</td>
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<td>Neuroradiology Reading Room</td>
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<td>Neuroradiology Reading Room</td>
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<td>Neuroradiology Reading Room</td>
<td>Neuroradiology Reading Room</td>
<td>Neurology Conference (monthly)</td>
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ON-CALL SCHEDULE & WEEKEND ACTIVITIES: *Per request, as time allows.

ADDITIONAL COMMENTS AND OTHER SPECIAL REQUIREMENTS:
RA262.02 INTERVENTIONAL NEURORADIOLOGY

Advanced Clinical Clerkship Location: CHS 2004–2005 12/9/03

COURSE CHAIR: PHONE #:  
Reza Jahan, M.D. (310) 206-1527

SUPPORTING FACULTY:  
Drs. G. Duckwiller, P. Gobin, G. Guglielmi, and F. Vinuela

STUDENT COORDINATOR: PHONE #:  
Lara Gold (310) 825-5806  
E-MAIL: lgold@mednet.ucla.edu

REPORT TO: Dr. Reza Jahan  
B2-188 CHS AT 8:00 a.m.

PREREQUISITES: Radiology or equivalent. Recommended: Neurology and/or Surgery I

AVAILABLE TO EXTERNS: Yes

STUDENTS / PERIOD: max 3 min 1

DURATION: 3 (2 by arrangement) weeks

2004–2005 ROTATIONS BEGIN WEEKS:
6, 9, 12, 15, 18, 27, 30, 33, 36, 39, 42, 45, 48

DESCRIPTION: This is an advanced clerkship in Interventional Neuroradiology. Knowledge of Neuroanatomy is important. Students are expected to be involved in: Patient consultation, procedures, rounds, and educational conferences. Student will work side by side with an Interventional fellow and faculty.

COURSE OBJECTIVES (in order of importance)
1. Introduction to diagnosis and intervention in Neuroradiology.
4. Medical judgment; understand appropriateness criteria for endovascular versus neurosurgical treatments.
5. Interpretation skills in Neuro, CT, MRI, Angiography.
6. Medical record keeping.
7. Improve skills of doctor/patient relationships.

STUDENT EXPERIENCES

COMMON PROBLEMS/DISEASES
1. Arteriovenous malformations
2. Aneurysms
3. Arteriovenous fistula
4. Stroke
5. Tumors

INPATIENT: 80%  
OUTPATIENT: 20%  
CONSULTATION: 100%  
PRIMARY CARE: 0%

CLOSE CONTACT WITH:  
X FULL TIME FACULTY  
X CLINICAL FACULTY  
X FELLOWS  
X RESIDENTS  
X INTERNS  
X OTHER Nurses & Radiologic Technologist

APPROXIMATE # OF PATIENTS EVALUATED EACH WEEK BY STUDENT: 5

TOTAL # OF PATIENTS EVALUATED EACH WEEK BY ENTIRE SERVICE: 13

TYPICAL WEEKLY SCHEDULE

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</table>
| AM   | 7:00 – 8:00 Morning Lecture  
8:00 – 9:00 Rounds  
9:00 – 12:00 Procedures | 7:00 – 8:00 Morning Lecture  
8:00 – 9:00 Rounds  
9:00 – 12:00 Procedures | 7:00 – 8:00 Morning Lecture  
8:00 – 9:00 Rounds  
9:00 – 12:00 Procedures | 7:00 – 8:00 Morning Lecture  
8:00 – 9:00 Rounds  
9:00 – 12:00 Procedures | 7:00 – 8:00 Morning Lecture  
8:00 – 9:00 Rounds  
9:00 – 12:00 Procedures |
| PM   | 12:00 – 1:00 Noon Conference  
1:00 – 5:00 Procedure/Consult | 12:00 – 1:00 Noon Conference  
1:00 – 5:00 Procedure/Consult | 12:00 – 1:00 Noon Conference  
1:00 – 5:00 Procedure/Consult | 12:00 – 1:00 Noon Conference  
1:00 – 5:00 Procedure/Consult | 12:00 – 1:00 Noon Conference  
1:00 – 5:00 Procedure/Consult |

ON-CALL SCHEDULE & WEEKEND ACTIVITIES: Call taken for all Interventional procedures (2 – 4 after hours cases/week)

ADDITIONAL COMMENTS AND OTHER SPECIAL REQUIREMENTS: Attendance is required for Morning Lecture and Noon Conference if not in consultation or procedure. Since ionizing radiation is used, this course is not recommended during pregnancy.
Advanced Clinical Clerkship | Location: CHS | 2004–2005 | 12/30/03

COURSE OBJECTIVES (in order of importance)
1. Gain familiarity with the tracer concept and its application to evaluation of both normal and pathophysiological processes.
2. Interpretation of diagnostic nuclear medicine procedures and developing an understanding of their relationship to a wide range of primary clinical areas.
3. Gain familiarity with positron emission tomography and other specialized imaging techniques.

STUDENT EXPERIENCES

COMMON PROBLEMS/DISEASES
1. Cardiovascular
2. Neurological
3. Orthopedic
4. Endocrine
5. Gastroenterology
6. Organ transplant
7. Infectious disease
8. Oncology

CLOSE CONTACT WITH:
X FULL TIME FACULTY
X CLINICAL FACULTY
X FELLOWS
X RESIDENTS
INTERNS
X OTHER Basic scientists and graduate students

APPROXIMATE # OF PATIENTS EVALUATED EACH WEEK BY STUDENT: VAR

TOTAL # OF PATIENTS EVALUATED EACH WEEK BY ENTIRE SERVICE: 150

TYPICAL WEEKLY SCHEDULE

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<tr>
<td>AM</td>
<td>7:00 – 8:00 Morning Radiology Lecture</td>
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<td>8:30 – 9:30 Cardiac PET Conf.</td>
<td>8:00 – 9:30 Case Conference</td>
<td>8:00 – 9:30 Case Conference</td>
<td>8:00 – 9:30 Case Conference</td>
<td>8:00 – 9:00 Journal Club</td>
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<td>PM</td>
<td>12:00 – 1:00 Radiology Noon Conf. 1:00 – 2:00 Case Read Out (Mon. – Fri.) 2:00 – 3:00 Outpatient Case Read Out 4:00 – 5:00 Case Read Out</td>
<td>12:00 – 1:00 Radiology Noon Conf. 1:00 – 2:00 Case Read Out (Mon. – Fri.) 2:00 – 3:00 Outpatient Case Read Out 4:00 – 5:00 Case Read Out</td>
<td>12:00 – 1:00 Radiology Noon Conf. 1:00 – 2:00 Case Read Out (Mon. – Fri.) 2:00 – 3:00 Outpatient Case Read Out 4:00 – 5:00 Case Read Out</td>
<td>12:00 – 1:00 Radiology Noon Conf. 1:00 – 2:00 Case Read Out (Mon. – Fri.) 2:00 – 3:00 Outpatient Case Read Out 4:00 – 5:00 Case Read Out</td>
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ON-CALL SCHEDULE & WEEKEND ACTIVITIES: None

ADDITIONAL COMMENTS AND OTHER SPECIAL REQUIREMENTS: This elective allows the student to gain experience in both clinical and research applications of nuclear medicine, including positron emission tomography (PET), SPECT, and other imaging techniques and their relationship to primary care areas. * Throughout normal hours of operation, students are involved in observing and monitoring patient studies. Students are encouraged to work on specialized projects in conjunction with faculty members.