PA162.01 NEUROPATHOLOGY ELECTIVE

In-Depth Location: CHS 2001-2002
3/9/2001

COURSE CHAIR: PHONE #:
Harry V. Vinters, M.D. (310) 825-6191

SUPPORTING FACULTY:
M. Anthony Verity, M.D., Paul S. Mischel, M.D.,
J. Twiss, M.D., Ph.D.

STUDENT COORDINATOR: PHONE #:
Annetta Pierro (310) 825-7230

REPORT TO:
Dr. Vinters, 18-170 CHS at 8:30 on first day.

PREREQUISITES: None

AVAILABLE TO EXTERNS: Yes

STUDENTS / PERIOD: max 2 min 1

DURATION: 3 weeks 6 by arrangement

2001-2002 ELECTIVES BEGIN WEEKS:
1, 5, 8, 11, 14, 17, 20, 27, 30, 33, 36, 39, 42, 45, 48 (list twice for 6 weeks)

COURSE OBJECTIVES (in order of importance)
1. Provide a continuing advanced survey of diseases of the nervous system.
2. Study of relevant gross, microscopic, biochemical, and molecular lesions.
3. Introduction of ultrastructural, histochemical, immunopathologic, and biochemical lesions of central and peripheral nervous system, including neuromuscular disease.
4. Learn to examine, cut, and describe gross abnormalities in brain and spinal cord.
5. Appreciate and describe microscopic findings and clinicopathologic correlates.
6. Study a core-program of neuropathologic disease revealed in gross and microscopic specimens.
7. Correlate ultrastructural and histochemical findings in nerve and muscle disease.
8. Prepare a short thesis and verbal presentation with library research in a single neuropathologic topic (case report with review format).
9. Elective is ideal for any student planning a career in clinical neurology, neurosurgery, or neuroradiology, or a career in investigational neuroscience.

INTRODUCTION: A four-week course; list 2 consecutive time blocks using the "inclusion group" option.

STUDENT EXPERIENCES

COMMON PROBLEMS/DISEASES
1. Cerebrovascular disease
2. Degenerative disease in CNS
3. Inf. disease, opportunistic inf.
4. Demyelination
5. Muscle disease, histochemistry, EM
6. Peripheral nerve biopsy exam
7. Clinical neurochemistry

APPROXIMATE # OF PATIENTS EVALUATED EACH MONTH/STUDENT: 20-40 (specimens)
TOTAL # OF PATIENTS EVALUATED EACH MONTH BY ENTIRE SERVICE: 100 (specimens)

TYPICAL WEEKLY SCHEDULE

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<tr>
<td>AM</td>
<td>8:30 General Autopsy Conf. Morgue 13-165 10:00 Muscle Biopsy sign-out (Self-Study Core Program) (Week Long)</td>
<td>9:00 Brain Cutting (Morgue 13-165)</td>
<td>8:15 -9:15 Pathology Grand Rounds 9:00 - 10:00 Neurology Grand Rounds 11:00-12:00 Neuro-Oncology Conference (200 Medical Plaza)</td>
<td>Independent Study</td>
<td>9:00 Micro-Follow-Up On Brain Cutting Cases 10:15 Research Presentation (Final Friday Of Rotation) 11:30 Surgical Pathology Teaching Conference</td>
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<td>PM</td>
<td>1:00 Neuromuscular Biopsy Review (1st Tues of Mo) 2:00 Neuropathology Teaching Conference 3:00 Special Brain Cutting Conference, Morgue 4:00 Surgical Pathology Sign-Out</td>
<td>4:00 Surgical Pathology Sign-Out</td>
<td>1:30 Review Of Muscle-Nerve Biopsy with Fellow</td>
<td>4:00 Surgical Pathology Sign-Out</td>
<td>4:00 Surgical Pathology Sign-Out</td>
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</table>

ON-CALL SCHEDULE & WEEKEND ACTIVITIES: Optional frozen section and autopsy on-call, including evenings and weekends.

ADDITIONAL COMMENTS AND OTHER SPECIAL REQUIREMENTS: Excellent introduction to study of human CNS/PNS disease with opportunity to prepare case report or mini-paper for publication. Course participants are also encouraged to attend other teaching activities of the Dept. of Pathology & Lab Medicine (weekly schedule provided at the start of rotation).
COURSE OBJECTIVES (in order of importance)

To understand and apply the fundamental concepts and principles of Transfusion Medicine (TM) to clinical practice.


2. Acquire knowledge through directed readings, discussions, and case studies on: TM standards and requirements, TM immunology and genetic applications, Pretransfusion testing, Resolving serological problems, Collection and preparation of blood components, Selection and transfusion of blood components, Adverse effects of transfusion, Autoimmunity, transplantation, hemolytic disease of the newborn, & Organization and function of a regional blood center and hospital transfusion service.

3. Observe laboratory procedures. Perform and interpret: ABO, Rh, antibody screen, crossmatch, direct antiglobulin test, antibody identification, antigen phenotyping.

4. Recognize areas of potential research in TM.

INTRODUCTION: UCLA Medical Center has a comprehensive transfusion service, donor center, and apheresis facility. Students will rotate through all three areas to learn technical and medical aspects of transfusion medicine. Emphasis will be placed on management of patients with transfusion medicine problems.

STUDENT EXPERIENCES

COMMON PROBLEMS/DISEASES

1. Atypical requests for blood components
2. Blood selection problems associated with complex antibodies/clinical problems
3. Transfusion reactions
4. Autoimmune hemolytic anemia
5. RhIG Candidates
6. Hemolytic disease of the newborn

APPROXIMATE # OF PATIENTS EVALUATED EACH MONTH/STUDENT: 30
TOTAL # OF PATIENTS EVALUATED EACH MONTH BY ENTIRE SERVICE: 100

TYPICAL WEEKLY SCHEDULE

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<tr>
<td>AM</td>
<td>8:00 Topic Discussions 9:15 Review Problem Cases 10:00 Rotation Assignments</td>
<td>8:00 Clinic. Path Conference 9:15 Review Problem Cases 10:00 Rotation Assignments</td>
<td>8:00 Pathology Grand Rounds Problem Cases 10:00 Rotation Assignments</td>
<td>8:00 Topic Discussions 9:15 Review Problem Cases 10:00 Rotation Assignments</td>
<td>8:00 Topic Discussions 9:15 Review Problem Cases 10:00 Rotation Assignments</td>
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<td>PM</td>
<td>Noon Clinic Path. Conference/lunch 1:00 TM Management 3:00 Didactic session; TM faculty 4:00 QA Sessions</td>
<td>Noon lunch 1:00 Rotation Assignments 3:00 Staff Meeting/Case Presentation 4:00 QA Sessions</td>
<td>Noon lunch 1:00 Rotation Assignments 3:00 Didactic session: TM faculty 4:00 QA Sessions</td>
<td>Noon lunch 1:00 Rotation Assignments 3:00 Didactic session: TM faculty 4:00 QA Sessions</td>
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ADDITIONAL COMMENTS AND OTHER SPECIAL REQUIREMENTS: Rotation assignments include didactic and laboratory exercises on Transfusion Medicine topics. Students will participate in TM consultations. Program may be tailored to meet students’ specific interests. One day may be spent at the Los Angeles Red Cross Blood Center. Students will prepare one oral presentation.
COURSE CHAIR: Samuel French, M.D.  
PHONE #: (310) 222-2643

SUPPORTING FACULTY: Div. of Anatomical Pathology and other AP faculty

STUDENT COORDINATOR: Adriana Flores  
PHONE #: (310) 222-2643

REPORT TO: Robert Morin, M.D., Harbor-UCLA Medical Center, 2nd Floor South, Room 2A, 8:30 a.m.

COURSE OBJECTIVES (in order of importance)
1. Instruction in necropsy pathology.
2. Exposure to general surgical pathology.
3. Learning the functions of a Pathologist as a consultant.
4. Acquiring a basic foundation for the practice of medicine.
5. Exposure to aspiration cytology.
6. Exposure to bone marrow aspirations

PREREQUISITES: None

AVAILABLE TO EXTERNs: Yes

STUDENTS / PERIOD: max 2 min 1

DURATION: 3 weeks

2001-2002 ELECTIVES BEGIN WEEKS
1, 5, 8, 11, 14, 17, 20, 27, 30, 33, 36, 39, 42, 45, 48

INTRODUCTION: This in-depth elective is designated to provide the 4th year medical students with an introduction and instruction in morphological pathology based on the daily activities of an academic Department of Pathology in an acute general hospital. At the conclusion, the clerk will have had intimate contact with the role and activities of Pathologist Care.

STUDENT EXPERIENCES

COMMON PROBLEMS/DISEASES
1. Necropsy Pathology
2. Surgical Pathology
3. Clinical Cytology
4. Bone Marrow Pathology
5. Aspiration Cytology
6. Diagnostic Electron Microscopy
7. Forensic Pathology

INPATIENT: NA%
OUTPATIENT: NA%
CONSULTATION: 5%
CLOSE CONTACT WITH:
X FULL TIME FACULTY
CLINICAL FACULTY
FELLOWS
X RESIDENTS
X INTERNS
OTHER

APPROXIMATE # OF PATIENTS EVALUATED EACH MONTH/STUDENT: 10%

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

TYPICAL WEEKLY SCHEDULE

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<td>AM</td>
<td>8:15 - 9:15</td>
<td>Show and Tell Conference</td>
<td>7:30 - 9:30</td>
<td>Autopsy</td>
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<td>Frozen Section Conference</td>
<td>Hemato. Pathology Conference</td>
<td>Surgical Morbidity and Mortality Conference</td>
<td>9:30 Gross Microbiology Correlation Conference.</td>
<td>Pathology Grand Rounds</td>
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<td>PM</td>
<td>Gyn. Pathology Conference</td>
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<td>Pulmonary Pathology Conference</td>
<td>Tumor Board</td>
<td>Medical M&amp;M Conf.</td>
<td>Neuropathology Conference</td>
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<td>Conference Breast Clinic</td>
<td>Surgical Pathology Gross and Microscopic</td>
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<td>Hematopathology Conference</td>
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<td>ON-CALL SCHEDULE &amp; WEEKEND ACTIVITIES:</td>
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ADDITIONAL COMMENTS AND OTHER SPECIAL REQUIREMENTS: None
COURSE OBJECTIVES (in order of importance)

1. Development of an approach to pathologic evaluation of biopsies and surgical specimens with emphasis on the clinical and pathological criteria essential to decision-making.

2. Acquaintance with the value, uses, and limitations of pathologic evaluation of surgical specimens.

3. Opportunity for clinical/pathologic/radiologic correlations in a variety of neoplastic and inflammatory conditions.

4. Exposure to specialized techniques, such as diagnostic electron microscopy, immunohistochemistry, and fine-needle aspiration biopsies.

5. Knowledge of clinical indications, methods and effectiveness of frozen-section diagnoses.

6. Practice in technical procedures of gross and microscopic evaluation of various surgical specimens, including use of special stains.

DESCRIPTION: The student is integrated into the regular housestaff rotation in surgical pathology and assumes primary responsibility for a limited number of cases, carrying them through the entire process of evaluation until final sign-out with the attending pathologist.

STUDENT EXPERIENCES

COMMON PROBLEMS/DISEASES

1. Differential diagnosis of neoplasms
2. Tumor grading and staging
3. Evaluation of inflammatory conditions
4.
5.
6.
7.

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

APPROXIMATE # OF PATIENTS EVALUATED EACH MONTH/STUDENT: 100+
TOTAL # OF PATIENTS EVALUATED EACH MONTH BY ENTIRE SERVICE: 1200

TYPICAL WEEKLY SCHEDULE

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<td>ON-CALL</td>
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ADDITIONAL COMMENTS AND OTHER SPECIAL REQUIREMENTS: The number and types of cases assigned are flexible, dependent upon the student’s experience and areas of specific interest and upon availability of surgical specimens. Numerous additional conferences are available and students will be directed to them as is appropriate. Students will meet with Dr. Nelson weekly to discuss particular disease processes in detail.
**COURSE OBJECTIVES (in order of importance)**

1. Interpret basic blood typing and red-cell crossmatching
2. Learn the basics of hemapheresis
3. Learn to perform and analyze bone marrow specimens
4. Learn to interpret peripheral blood smears
5. Gain an introduction to the organizations of a microbiology and chemistry laboratory

**STUDENT EXPERIENCES**

<table>
<thead>
<tr>
<th>COMMON PROBLEMS/DISEASES</th>
<th>INPATIENT</th>
<th>OUTPATIENT</th>
<th>CLOSE CONTACT WITH</th>
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<tr>
<td>Renal failure</td>
<td>100%</td>
<td>0%</td>
<td>FULL TIME FACULTY</td>
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<td>Hyocardial infarction</td>
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<td>CLINICAL FACULTY</td>
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<tr>
<td>Infectious diseases</td>
<td>100%</td>
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<td>FELLOWS</td>
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<td>Opportunistic infection</td>
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<td>RESIDENTS</td>
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<td>Anemia</td>
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<td>INTERNS</td>
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<td>Coagulopathy</td>
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<td>AIDS</td>
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**APPROXIMATE # OF PATIENTS EVALUATED EACH MONTH/STUDENT:** NA

**TOTAL # OF PATIENTS EVALUATED EACH MONTH BY ENTIRE SERVICE:** NA

**TYPICAL WEEKLY SCHEDULE**

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<tr>
<td>AM</td>
<td>9:30 Intro to Labs; 10:30 Basic Lab Stats; 12:00 Pathology Grand Rounds</td>
<td>8:00 Clinical Chemistry Laboratory; Major Analysis</td>
<td>8:00 Enzyme Analysis Laboratory; 10:00 Toxicology Lab</td>
<td>8:00 Autopsy Conference; 9:00 Microbiology Lab</td>
<td>8:00 Mycobacteriology; 10:00 Mycology and Parasitology</td>
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<td>10:00 Seminar: Discussion of Procedures</td>
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<td>PM</td>
<td>2:30 Principles of Instrumentation; 4:00 How the Laboratory Costs Are Determined</td>
<td>1:00 Case Studies; 2:30 Introduction to Enzymology; 4:00 Introduction to Toxicology</td>
<td>1:00 Case Studies; 2:30 Introduction to Microbiology; 4:00 Principles of Microbiology Instrumentation</td>
<td>1:00 Case Studies; 2:30 Introduction to Virology; 4:00 Introduction to Mycology</td>
<td>1:00 Case Studies; 2:30 Introduction to Hematology; 4:00 Principles of Hematology Instrumentation</td>
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**ON-CALL SCHEDULE & WEEKEND ACTIVITIES:**

**ADDITIONAL COMMENTS AND OTHER SPECIAL REQUIREMENTS:**
1. Understanding the pathogenesis of disease of the body.
2. Clinical-pathologic correlation of signs and symptoms with pathologic mechanisms.
4. Recognition of main reactions in each organ system.
5. To improve knowledge of anatomic and functional relations of the organ systems to each other and to the surface of the body.
6. To improve the physician’s conceptual visualization of disease in the body.
7. To develop facility in reading, observing, presenting, and discussing disease in a patient.
8. To improve the diagnosis, treatment, and investigation of disease by clinicians and pathologists.

INTRODUCTION: Students are assigned to observe and assist staff members in performing autopsies. After microscopic and other laboratory studies are completed, students and staff members meet in conference.

STUDENT EXPERIENCES

COMMON PROBLEMS/DISEASES
1. CNS, muscle, heart, lungs
2. Liver, GI tract, GU tract
3. Musculo-skeletal system
4. Endocrine system
5. Acute and chronic inflammation
6. Congenital malformation
7. Metabolic problems

INPATIENT: 100%
OUTPATIENT: 0%
CONSULTATION: 100%

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

APPROXIMATE # OF PATIENTS EVALUATED EACH MONTH/STUDENT: 10
TOTAL # OF PATIENTS EVALUATED EACH MONTH BY ENTIRE SERVICE: 18

TYPICAL WEEKLY SCHEDULE

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<tr>
<td>AM</td>
<td>8:30-9:30 Autopsy Case Conference, Case Work</td>
<td>9:00 Brain Cutting</td>
<td>8:15 Pathology Grand Rounds</td>
<td>8:00 - 9:00 Cytology, Fine Needle, EM and Immunopathology Conference</td>
<td>8:00 - 9:00 Surgical Pathology Micro Conference</td>
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<td>10:00 Neuropathology Rounds</td>
<td>11:00 Brain Cutting</td>
<td>Case Work</td>
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<td>3:00 - 4:00 Special Brain Cutting</td>
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<td>1:00 Peds Cardiology (First Friday)</td>
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ON-CALL SCHEDULE & WEEKEND ACTIVITIES: None

ADDITIONAL COMMENTS AND OTHER SPECIAL REQUIREMENTS: