

**MEDI 800Dp – Clinical Oncology Research (Arizona Cancer Center – Scottsdale)****Dr. D. Mendelson (480 657 1350; dmendelson@shc.org)**3 or 4 wks *only*; offered year round

Directly supervised/Patient- and non-patient care.

Maximum enrollment of 1

Prerequisites: MEDI 803

**Goals:** In this elective didactic program in benign hematology, students will work with members of the Hematology/Medical Oncology Section at the Arizona Cancer Center in the outpatient facility at Scottsdale Healthcare Shea Campus. The student will learn the diagnostic and therapeutic approaches for hematologic and oncologic disease through direct patient contact. In addition, clinical experience will be supplemented by a clinical care (tumor board) conference and a weekly research teleconference with Tucson. Direct mentoring with two Hematology Oncology specialists will make this a very “hands-on” experience.

**Format:** Students will participate in clinic and consult work and present cases to staff for discussion and review. Management conferences with radiology, surgery, pathology and radiation therapy are scheduled. An overview of clinical research methodology will be presented. No call or weekend coverage is needed.

**Evaluation Methods:** A written evaluation by attending staff will be provided. All students will participate in an end-of-session debriefing conference.

**MEDI 810Ae (sect 1) - Ambulatory Care (Maricopa Integrated Health System, Phoenix)****Dr. J. Raj (602 344 5768 or jessica\_hoyer@medprodoctors.com)**

4 or 6 wks; maximum length of 8 wks; offered year round with a 30 day minimum application notification

Directly supervised/Non-patient care.

Maximum enrollment of 2

Prerequisites: Medicine 803 and consent of Coourse Preceptor.

**Goals:** To strengthen student skills in the care of ambulatory patients including evaluation, differential diagnosis and the appropriate use of diagnostic testing in both the acute (walk-in) and continuity clinic settings.

**Format:** An individualized program will be developed to give the student a well-rounded experience which meets their particular needs and interests. This will include experience in community-based internal medicine continuity clinics and sub-specialty clinics. Students will also rotate through a Same Day Clinic (walk-in) gaining exposure to a wide variety of medical, gynecologic, orthopedic and surgical disorders. Students will participate in journal club and other conferences where pertinent ambulatory topics will be discussed.

**Evaluation Methods:** Students will be directly supervised by attending physicians in the Department of Medicine with an attending preceptor to give ongoing feedback and a final written evaluation.

**MEDI 810Af (sect 3) - Ambulatory Care (Mercy Health Care Center @ St. Joseph’s Hospital, Phoenix)****Drs. P. Radhakrishnan (Clerkship Director) , S, Khatkate, & J. Olmert; Coordinator Sandra Edwards (Sandra.Edwards@chw.edu, 602 406 3382)**4 wks *only*; offered year round

Directly Supervised Patient Care.

Maximum enrollment of 2

Prerequisites: Medicine 803. Medical students must have consent of Course director.

**Goals:** To develop the medical students skill in ambulatory care of patients. The student will attain proficiency in the care of both acute problems and chronic care of patients with multiple medical problems. There will be emphasis on diagnostic work up and preventive care.

**Format:** The student will see both acute and continuity clinic patients. There will be emphasis on prioritizing problems and focusing on physical examination and diagnostic testing. They will learn the basics of preventive medicine. The student will attain proficiency in the care of patients with chronic medical problems. The students will also get the opportunity to see patients in specialty clinics including Infectious disease, Gastroenterology and Dermatology. There will be didactic lectures on common ambulatory problems and preventive care. The student will learn to search literature and apply the principles of evidence-based medicine in direct patient care. Computerized references, referral guidelines, formulary medications are available in the office. There will be instruction and exposure to the business aspects of medicine including coding and billing, prescribing formulary medications, cost efficacy and systems based practice. The Student will develop and present a project that entails systems based practice at the end of the rotation. There will be opportunities of performing office-based procedures. Additional experience at private offices is also offered. The student will be supervised by attending physicians. During the rotation, lectures including Morning Ambulatory morning reports, noon conferences and weekly journal club.

**Evaluation Methods:** Will be performed by the attendings in accordance to the University of Arizona evaluation form.

**MEDI 810Ag (sect 2) - Ambulatory Care (Good Samaritan Regional Medical Center, Phoenix)**

**Dr. J. Peterson & Faculty (Jesica Hoyer 602 239 2922 Jessica.hoyer@bannerhealth.com)**

4 wks; maximum length of 8 wks; offered year round (except June)

Directly supervised/Patient care.

Maximum enrollment of 1

Prerequisites: Medicine 803

**Goals:** To provide the student the basis for developing his/her skills in evaluation, diagnosis and development of differential diagnoses and therapeutic plans for patients with acute and chronic medical problems both common and complex in a "group practice" setting with the residents of the Good Samaritan Regional Medical Center/VAMC Internal Medicine Program based at the Good Samaritan Regional Medical Center Outpatient Clinic.

**Format:** At the Good Samaritan Regional Medical Center the student will participate in half-day blocks in the Internal Medicine Clinic and in the offices of participating faculty General Internists. The student will interact with faculty and residents from the Good Samaritan Regional Medical Center/VAMC Internal Medicine Program. The student will have his/her own patients identified and will be the first to evaluate new patients or to provide follow-up. The student will also have mini-lectures on outpatient management. The remainder of the schedule will include experiences in the various sub-specialty clinics and consult services at the Good Samaritan Regional Medical Center Outpatient Clinic.

**Evaluation Methods:** Each student will be evaluated by a full-time faculty member in Internal Medicine. Evaluation will occur throughout the rotation, formally at the midpoint and at the conclusion and will assess knowledge and skills in diagnosis and treatment in the outpatient setting.

Subsidized housing available on a limited basis, prior reservation **MANDATORY**.

**MEDI 810Cf - Clinical Geriatrics (Sun Health/St. Joseph's Geriatric Fellowship Program)**

**Drs. W. J. Nieri, D. Koss, J. Ceimo & A. Lively (Kathy O'Connor, 623 215 7662, walter.nieri@sunhealth.org)**

3wks *only*; offered late September-late April

Directly supervised/Patient care

Maximum enrollment: 1

Prerequisites: Fourth-year medical students

**Goals:** To introduce the students to the basic principles of geriatric medicine. They will be provided with a clinical experience that emphasizes geriatric assessment through a multidisciplinary approach.

**Format:** The clinical experience will include participation in a hospital, subacute unit, community nursing home, outpatient Geriatric Assessment Center, and a dementia directed care assisted living facility. The rotation will include aspects of normal aging, geriatric syndromes, pharmacological issues, rehabilitation, end of life care, and ethical issues. The student will work with geriatricians, geriatric fellows, family practice/internal medicine residents, nurse practitioners, clinical pharmacists, and other healthcare professionals. There is no on call requirement.

**Evaluation Methods:** Pre and post rotation examinations and direct observation by the geriatric faculty.

**MEDI 811Ae (sect 4) - Internal Medicine (Maricopa Integrated Health System, Phoenix)**

**Faculty (602 344 5768 or jessica\_hoyer@medprodoctors.com)**

4 or 8 wks; maximum length of 8 wks; offered year round

Directly supervised/Patient care.

Maximum enrollment of 10 (2 per team)

Prerequisites: Medicine 803. Prior reservation **MANDATORY**.

**Goals:**

1. To hone skills in obtaining complete patient histories and performing thorough, accurate physical examinations.
2. To develop the ability to synthesize data into a thoughtful differential diagnosis and a logical assessment and treatment plan.
3. To build upon a fund of knowledge in Internal Medicine required to provide excellent patient care.
4. To learn and practice the principles of evidence-based medicine and to incorporate them into clinical decision-making.
5. To develop skill in making organized, logical clinical presentations.
6. To become an integral member of the medicine ward team and learn a "team approach" to patient care.
7. To acquire experience in providing total care for inpatients throughout their hospitalization.

**Format:** This sub-internship provides students with an invaluable experience in direct patient care in a supervised, academic setting. The student functions as an "acting intern" on the team under supervision of the team resident and attending. As such, he/she will admit patients to the hospital, perform complete histories and physicals, participate in daily rounds with the team members and attending, attend daily conferences such as morning report, noon conference and grand rounds, as well as the student lectures given three to four times a week. This is a unique opportunity for a student to practice his/her clinical skills in a busy county hospital with a diverse patient population and a wide variety of fascinating pathology.

**Evaluation Methods:** Subjective by instructors.

**MEDI 811Af (sect 5) - Internal Medicine (Subinternship) (St. Joseph's Hospital and Medical Center, Phoenix)**

**Drs. Radhakrishnan, G. Rodriguez, M. Cantillo, S. Ibrahim, G. Gargiulo, J. Millstein, & S. Plushhall (Sandra Edwards 602 406 3382 (fax) 602 406 7188 sandra.edwards@chw.edu Jessica.hoyer@bannerhealth.com)**

4 or 6 wks; maximum length of 12 wks; offered year round

Directly supervised/Patient care.

Maximum enrollment of 3

Prerequisites: Medicine 803. Medical students must have consent of Course Director before registering.

**Goals:** The primary goal is to consolidate the medical student's knowledge and provide the foundation for their internship and residency. The student will have increased autonomy and responsibility.

**Format:** During their subinternship the medical student will be assigned to one of the ward teams. They will be assigned to either a second or third level resident. The subintern will be responsible for the patients and will report to the senior resident and attending physician of record. The supervising resident, according to the complexity of the cases and ability of the subintern will determine the number of patients assigned to the medical student. The student will take call with the team **REQUIRED UNTIL 10 PM AND OVER-NIGHTS ENCOURAGED** will also be required to attend teaching rounds, noon conferences and Journal club. There will be dedicated weekly clinical examination rounds with an attending. To acquire basic information about certain common medical diseases and to apply this knowledge to assess and manage patients with these diseases. The clerkship will emphasize the following:

1. Competence in performing a history and physical
2. Formulating a problem list and diagnostic plan
3. Management & decision making skills
4. Utilization and practice based learning
5. Procedural skills
6. Establishing patient relationships
7. Team working
8. Developing the skills needed to practice evidence based medicine.

**Evaluation Methods:** The supervising resident, attending physician and clerkship director using the standard evaluation form as required by the University of Arizona.

**MEDI 811Bm - Medicine Subinternship (Mayo Clinic, Scottsdale)**

**Dr. J. Charles (480-301-4338)**

4 weeks *only*; offered year round

Directly supervised/Patient care. Prior approval.

Maximum enrollment of 2

Prerequisites: Completion of all prior courses and clerkships. Completion of ACLS course. Demonstration of clinical competence adequate to function as a subintern. Promotion to fourth-year status. Medical students must have consent of Course Director before registering.

**Goals:** The primary goal of the internship is to prepare students for their role as house officers. The subinternship is structured to provide students with increased responsibility for patient care so they will be better prepared to function as a resident physician. Students will be assigned to one of the teaching services at Mayo Clinic Hospital, staffed by hospitalists and a variety of subspecialists principally from the fields of pulmonology and endocrinology.

**Format:** During the subinternship, students will work under the supervision of an assigned Mayo second or third internal medicine resident. Night call will be rotated with the residents on the service. The subintern will assume first line responsibility for the patients he/she admits to the service. The number of patients assigned to the subintern will be determined by the supervising resident (SR) and will depend on the complexity of the cases, size of the student's service, and the student's clinical skills. Student responsibilities will include, but are not limited to:

1. Performing a comprehensive history and physical examination on new admissions.
2. Formulating a complete patient problem list.
3. Formulating a diagnostic and therapeutic plan for all active problems.
4. Writing all the orders for assigned patients.
5. Writing progress notes at least once daily on all patients.
6. Presenting each new admission to the attending and other members of the ward team.
7. Writing discharge and off-service summaries on all patients and arranging for follow-up care.
8. Taking call (in-house) every fourth night.
9. Admitting the first two patients assigned to the service and then alternating admissions with the backup resident.

Performing procedures on assigned cases.

**Evaluation Methods:** Evaluation of student performance of stated learning goals will be provided by the Attending consultant, supervising resident and resident using the standard Division of Academic Resources evaluation forms issued by the College of Medicine.

\*Clerkships of slightly longer or shorter duration may be arranged.

**MEDI 811Ce (sect 2) - Coronary Care Unit-Acting Internship (Maricopa Integrated Health System, Phoenix)**

**Drs. J. Kaufman & faculty (602 344 5768 or [jessica\\_hoyer@medprodoctors.com](mailto:jessica_hoyer@medprodoctors.com))**

4 wks *only*; offered year round

*Not* directly supervised/Patient care.

Maximum enrollment of 3

Prerequisites: Medicine 803. Prior reservation MANDATORY.

**Goals:** To provide a broad overview of contemporary issues in the management of patients presenting with a wide variety of problems involving the cardiovascular system.

**Format:** The student becomes an active and participating member of the CCU team, consultation service and outpatient clinic team. Routine activities include EKG interpretation. CCU rounds, new patient work-ups, interpretation of hemodynamic and angiographic data, journal club, educational conferences and night call (approximately every 6th night). Emphasis is placed on the basic approach to patient evaluation, problem solving and decision making in the setting of a busy, clinically oriented coronary care unit.

**Evaluation Methods:** Ongoing feedback and a written evaluation by the attending at the end of the rotation.

**MEDI 811Fg - Honors Course In Internal Medicine (Good Samaritan Regional Medical Center, Phoenix)**

**Drs. A. Leibowitz, Applefeld, Dirlam & Maynard (Connie Farrington 602 239 2296)**

4 or 12 wks, maximum length of 12 wks; offered September-November

Directly supervised/Patient care.

Maximum enrollment of 3

Prerequisites: Medicine 803. Medical students must have consent of Course Director before registering.

**Goals:** The student will incorporate the concept of "evidence-based medicine" into their clinical care of patients in a variety of health care settings. They will become proficient at applying case-based readings to their patient related problems and become competent at Internal Medicine skills at the intern level.

**Format:** This 12 week Internal Medicine Honors Rotation consists of 3 four-week blocks. The student will serve as an Acting Intern on the General Medicine wards at Good Samaritan Regional Medical Center, the ICU, and the Internal Medicine outpatient setting. A maximum of 3 students may be assigned to this rotation, each starting at a different point in the Honors track. During the 3 blocks, the Acting Intern will be involved in direct care of patients on the General Medicine ward, the ICU, or the outpatient setting. Throughout the three month rotation, the student will work in small group sessions and independently to formulate a clinical research protocol. This protocol will be presented at a noon conference near the end of the elective.

**Evaluation Methods:** Will occur informally throughout the rotation and by written evaluation at the end of each month. Emphasis will be placed on content knowledge, clinical judgment and professionalism. Subsidized housing available on a limited basis, prior reservation MANDATORY.

**MEDI 811Ge (sect 1)– Combined Rotation in Medicine/Pediatrics (Maricopa Medical Center)**

**Drs. S. Skinner (Karen Boettcher, 602-344-1218,**

**[karen.boettcher@hcs.maricopa.gov](mailto:karen.boettcher@hcs.maricopa.gov))**

4wks *only*; offered year round

*Not* directly supervised/Patient-care

Maximum enrollment of 1

Prerequisites: MEDI and PED 803.

**Goals:** To strengthen skills in the care of adult and pediatric ambulatory patients including evaluation, differential diagnosis and the appropriate use of diagnostic testing in both the acute (walk-in) and continuity clinic settings.

**Format:** The student will spend 1 week blocks in each of our 3 combined internal medicine and pediatric clinics during which time they will interview, examine and present select patients. The forth week will be spent shadowing an inpatient service, either internal medicine or pediatrics. An individualized program will be developed to give the student a well-rounded experience that meets their particular needs and interests. The student will be expected to read and present articles on 4 of 8 pre-selected topics.

**Evaluation Methods:** Students will be directly supervised by attending physicians in the Departments of Medicine and Pediatrics with a Med/Peds attending preceptor to give ongoing feed back and a final written evaluation.

*Crosslisted with PED 811Ge*

**MEDI 811Gg (sect 2) - Primary Care Combined Internal Medicine/Pediatrics (Good Samaritan Regional Medical Center, Phoenix)**

**Dr. D. Holland, (Director, Med/Peds Program) & Faculty (Jesica Hoyer 602 239 2922 [Jessica.hoyer@bannerhealth.com](mailto:Jessica.hoyer@bannerhealth.com))**

4 wks *only*; offered year round (with the exception of January, February & March)

Directly supervised/Patient care.

Maximum enrollment of 1

Prerequisites: Core Medicine and core Pediatric rotations. Medical students must have consent of Course Director before registering.

**Goals:** Educate students in the primary care of both children and adults with complex chronic diseases with emphasis on following and managing adolescents with chronic medical problems. Training Sites: GSRMC outpatient clinic, PCH and Pappas School Accommodation Clinic.

**Format:** Students will practice primary care of both children and adults with special emphasis on evaluating patients in a student health clinic setting and managing adolescents with chronic medical problems i.e., cystic fibrosis, diabetes mellitus, inflammatory bowel disease, asthma, behavioral disorders, and complex congenital heart disease. Emphasis will be on health screening, continuity of care, psychosocial issues, preventative medicine and evaluation of acute and chronic problems in this patient population. Students will be taught methods to critically review relevant literature and develop a presentation on a related topic.

**Evaluation Methods:** The students will be evaluated based on clinical performance, fund of knowledge and completion of listed objectives using group discussions and individual faculty evaluations. The students will have the opportunity to evaluate each

*\*Crosslisted with PED 811Gg*

**MEDI 811Ig (sect 2) - Medical Intensive Care Unit/Coronary Care Unit (Good Samaritan Regional Medical Center, Phoenix)  
Drs. T. Bajo, Jack Applefeld (Director, Critical Care) & Faculty (Jesica Hoyer 602 239 2922 Jessica.hoyer@bannerhealth.com)**

4 wks *only*; offered year round

Directly supervised/Patient care.

Maximum enrollment of 3

Prerequisites: Fourth-year medical students. Medical students must have consent of Course Director before registering.

**Goals:** To acquaint the student with the general approach to critically ill patients in the ICU/CCU setting.

**Format:** This rotation provides general exposure to a medical intensive care unit and coronary care unit. The student will function as part of the housestaff team assigned to the units, under the direct supervision of full-time intensivists, the CCU director, and resident staff. Daily rounds will be made with residents, interns and the full-time teaching faculty of the Good Samaritan Regional Medical Center/VAMC Internal Medicine Residency Program. Students will be assigned night call on a rotational basis with their team.

**Evaluation Methods:** Student performance will be evaluated by the residency program director, intensivist, CCU director, attending physician and supervising resident. Each student's performance will be discussed during and at the completion of this clerkship. Subsidized housing available on a limited basis, prior reservation **MANDATORY**.

**MEDI 811Ih (sect 3) - Medical Intensive Care Unit/Coronary Care Unit (VAMC, Phoenix)**

**Drs. C. Singarajah, .R. Robbins, F. Cardello, & R. Halligan. (Stephanie Velarde 602 277-5551 ext 7387 Dr. Richard A. Robbins 602 277 5551, ext. 7388)**

4 wks *only*; offered year round

*Not* directly supervised/Patient care. Prior approval required.

Maximum enrollment of 2

Prerequisites: Fourth-year medical students. Medical students must have consent of Course Director before registering.

**Goals:** This elective is designed to give the fourth-year student greater familiarity with diagnosis and management of the critically ill patient and acute coronary syndromes. As part of this rotation, they will learn from the care of the dying patient. In the course of the management of these patients each case is discussed on a daily basis and laboratory studies, x-rays, EKGs and monitoring on telemetry are discussed. Special emphasis is devoted to improving skills in physical examination and diagnostic techniques, synthesis of data on patients in ICU/CCU.

**Format:** The student will be assigned to an ICU team and is expected to follow selected patients. The student will round on critically ill patients as part of a multidisciplinary team in the MICU/CCU. Medical residents will provide the active care. No night or weekend call.

**Evaluation Methods:** Direct observation and daily interaction with attending cardiology/critical care faculty and fellows will serve as the basis for student evaluation during the rotation and at the conclusion of the rotation. Written evaluation at rotation conclusion and frequent feedback during the course are provided. Attendance at conferences (usually one per day) is required.

**MEDI 811Mg - General Medicine-Acting Internship (Good Samaritan Regional Medical Center, Phoenix)**  
**Drs. A. Leibowitz (Director, Internal Medicine), Maynard, Applefeld, Dirlam & Faculty (Jessica Hoyer 602 239 2922 Jessica.hoyer@bannerhealth.com)**

4, 6 or 8 wks; maximum length of 8 wks; offered year round

Directly supervised/Patient care.

Maximum enrollment of 3

Prerequisites: Fourth-year medical students. Medical students must have consent of Course Director before registering.

**Goals:**

1. To provide training and experience through observation and participation in total hospital care of patients on a general Internal Medicine Service.
2. To perfect skills in the performance of complete medical histories and physical examination.
3. To provide experience in differential diagnosis through in-depth study, history and physical exam. Appropriate routine and sophisticated laboratory and radiological procedures will be emphasized.
4. To develop judgment in assessing the need for consultation from other specialists and sub specialists in internal medicine and other medical disciplines.
5. To develop the ability to present the facts of a case as obtained in items 2 and 3 above in a complete, logical and concise manner.
6. To formulate and conduct an inpatient treatment program.
7. To further the student's medical knowledge base by in-depth reading in textbook and journal articles concerning the problem presented by the assigned patients.

**Format:** Each student will be an Acting Intern, under the supervision of housestaff and faculty of the Good Samaritan Regional Medical Center/VAMC Internal Medicine Residency Program. Approximately five new patients will be assigned weekly for the performance of history, physical exam, diagnostic and treatment plan. Each student will develop and write appropriate daily orders and progress notes on their patients. Daily work rounds will be made with the medical resident and interns, as well as daily teaching rounds conducted by the attending physician. The student will be expected to present his/her patients at rounds when appropriate and should be prepared to discuss the medical literature pertinent to each patient. Acting Interns will receive training on computerized literature retrieval and critical appraisal of articles of potential clinical importance to their patients. Students will be assigned night call on a rotational basis with the residents on the service. Daily sub-specialty medicine conferences are held at 12:30 PM, and Morning Report is held daily.

**Evaluation Methods:** Student performance will be evaluated by the residency program director, attending physician and supervising resident. Each student's performance will be discussed during and at the completion of this rotation.

Subsidized housing available on a limited basis, prior reservation **MANDATORY**.

**MEDI 815Am (sect 2) - Clinical Cardiology (Mayo Clinic, Scottsdale)**

**Dr. H. Loutfi (480 301 4338)**

4 wks *only*; offered September - April

*Not* directly supervised/Patient care. Prior approval.

Maximum enrollment of 1

Prerequisites: Medicine 803

**Goals:** The cardiovascular disease clerkship offers an exposure to a variety of cardiovascular problems in the inpatient setting, primarily in a consultative fashion. Students will become familiarized with basic problems in clinical cardiology, from initial evaluation to enhancing skills of assimilation of diagnostic data. Student supervision will be provided by staff consultants and resident house staff.

**Format:** Students will perform a minimum of two patient evaluations per day. Daily morning work rounds will be led by the consultant. Case presentations, including the students preliminary assessment and recommendations, will be given during consultative rounds and then reviewed. Students are expected to visit their assigned patient's daily and provide a progress note in the medical record. Though not required, students are encouraged to observe their own patient's procedures, i.e. echocardiograms, cardiac catheterization, electrophysiology students, etc. Students are encouraged to attend the weekly CPC and cardiovascular conferences and may be the presenter at one cardiovascular conference during the rotation. Interesting case presentations are encouraged at the weekly Cardiology conference.

**Evaluation Methods:** Evaluation will be provided by a written evaluation form.

**MEDI 815Ap (sect 3) - Clinical Cardiology (Affiliated Cardiologists of Arizona, Good Samaritan, St. Luke's, St. Joseph's)**

**Dr. M.H. Assar (Jessica Hoyer 602 239 2922 Jessica.hoyer@bannerhealth.com)**

4 or 6 wks; maximum of 6 wks; offered year round

Maximum enrollment - 1 student/every other month

*Not* directly supervised/Patient-care.

Prerequisites: Fourth year medical students

**Goals:** Upon completion of this rotation, the student will have a general understanding of clinical preventive and general cardiology that emphasizes the following student skills: knowledge of basic facts related to management of patients with cardiovascular disease; clinical data gathering including medical interviews and performing cardiovascular physical examinations, problem solving and decision making; an introduction to cardiology testing procedures; basic skills in physical diagnosis and interpreting ECG and

arrhythmias, coronary and peripheral vasculature anatomy, treatment modalities for coronary artery disease, congestive heart failure, peripheral vascular disease and general cardiology; interest in the field of cardiovascular medicine.

**Format:** This primary preventive cardiology practice operates a comprehensive program that will give students exposure to three hospitals, one clinic (in Globe), and one office. Students will participate in hospital rounds, CCU rotation (when applicable), all cardiac invasive catheterization procedures, all non-invasive cardiology involvement (transesophageal ECHO, Transthoracic ECHO, exercise and pharmacological nuclear stress testing), office patient care, rural area cardiology clinic (one day/wk), and grand rounds/lectures offered at GSH. Students will evaluate cardiac patients (minimum of two patients per day) as consultants under the supervision of Dr. Assar, receive training in interpretation of electrocardiograms, and evaluate patients in cardiology clinics. Students are expected to visit their assigned patients daily and provide a progress note in the medical record. Opportunities to observe diagnostic cardiology examinations, such as cardiac catheterization, echocardiography and exercise stress testing will be provided.

**Evaluation Methods:** Students will be evaluated on their patient casework. Two to three reports on interesting cases will be required per week. There is no oral or written examination.

#### **MEDI 815Bh - Clinical Dermatology (VAMC, Phoenix)**

**C. Reardon, K. Hastings, K. Bistricky and S. Targovnik; Catherine Yanni, PA & Lisa Kilgore-Christensen, PA (Stephanie Velarde 602 277-5551 ext 7387 and Catherine Yanni, PA ext 6990)**

4 wks *only*; offered year round

Directly supervised/Patient care.

Maximum enrollment of 2

**Prerequisites:** : Completion of required clerkships or near end of 3rd year with permission for those applying for dermatology residency positions.

**Goals:** The primary goal of this elective is to acquire sufficient experience in the recognition and management of common skin disorders to enable the student to function adequately in a primary care setting. This knowledge is acquired through participation in supervised patient care. Instruction in basic dermatologic procedures and diagnostic techniques such as cryotherapy and various biopsy procedures is included and may include mycology preparations and patch testing as well. **Format:** The elective will be based on a preceptor-preceptee experience utilizing the Phoenix VAMC.

**Evaluation Methods:** Students will be evaluated on their ability to describe basic skin lesions verbally and in clinic notes and on their basic dermatology knowledge, proficiency in the standard procedures and their ability to care for patients in this setting while working under the guidance of the various preceptors involved with the elective. Each student receives a written evaluation at the end of the rotation.

#### **MEDI 815Bm (sect 4) - Clinical Dermatology (Mayo Clinic Scottsdale)**

**Drs. J. Yiannias & G. Gibson (Kristy Ford 480 301 4898 ford.kristy@mayo.edu)**

4 wks *only*; offered year round

Directly supervised/Patient-care.

Maximum enrollment of 1; 4 per year

**Prerequisites:** MEDI 803, students must submit USMLE Step I scores to coordinator prior to being admitted into elective

**Goals:** The outpatient dermatology rotation is offered to help students acquire basic knowledge of clinical dermatology. This knowledge should allow students to determine a correct diagnosis and understanding of the management of basic dermatologic disease. Staff consultants and senior resident associates serve as preceptors. Specific goals are: to be able to gather clinical information through a dermatologic history and physical examination; recognize primary and secondary skin lesions with ease, classify rashes and develop a differential diagnosis; know and be able to discuss and identify 100 common skin diseases (list will be provided during rotation); become competent in dermatologic procedures for potassium hydroxide examination, fungus/yeast, Wood's lamp examination and scabies preparation; observe various dermatologic procedures including hair pluck and examination, outpatient surgery, skin biopsies, patch testing, wet dressings and Goeckerman therapy; observe dermatologic practice and nursing procedures in this outpatient setting; develop an awareness of dermatologic literature, resources, nursing care, treatment modalities, dermatopathology and immunopathology; observe the diversity of dermatologic conditions; understand the clinical and pathological correlation of dermatologic diseases.

**Format:** During this elective, students participate in outpatient dermatologic care. They are taught and supervised by consultants and residents. They also observe dermatologic surgery, outpatient nursing procedures, do independent study assignments, and attend weekly conferences.

**Evaluation Methods:** Evaluation by attending staff and consultants will be done on a standardized grade sheet and include qualitative feedback. A written quiz is also required.

#### **MEDI 815Ce (sect 2) - Endocrinology (Maricopa Integrated Health System, Phoenix)**

**Faculty (602 344 5768 or jessica\_hoyer@medprodoctors.com)**

4 wks *only*; offered year round

Directly supervised/Patient care.

Maximum enrollment of 1

**Prerequisites:** Medicine 803

**Goals:** To strengthen student skills in the evaluation and care of patients with endocrine and metabolic diseases in both the inpatient

and outpatient settings. Includes experience in thyroid, reproductive endocrinology, bone disease, and diabetes.

**Format:** The student is an active member of the consultive team under the direct supervision of subspecialist staff. Activities include consultive service as well as outpatient clinic experience. No call or weekend coverage.

**Evaluation Methods:** Ongoing feedback and written evaluations by the attending at the conclusion of rotation.

**MEDI 815De (sect 2) - Clinical Gastroenterology (Maricopa Integrated Health System, Phoenix)**

**Dr. A. Nadir, S. Verma & J. Ravi (602 344 5768 or jessica\_hoyer@medprodoctors.com)**

4 or 8 wks, maximum length of 8 wks; offered year round

Not directly supervised/Patient care. Prior approval.

Maximum enrollment of 1

Prerequisites: Medicine 803. Prior reservation MANDATORY.

**Goals:** To provide the student with a broad exposure to gastrointestinal and hepatic disorders in both the acute and outpatient setting.

**Format:** The student is an active member of the consultive team under the direct supervision of subspecialist staff. Activities include consultive service as well as outpatient clinic experience. No call or weekend coverage.

**Evaluation Methods:** Ongoing feedback and written evaluations by the attending at the conclusion of rotation.

**MEDI 815Dh (sect 3) - Clinical Gastroenterology (VAMC, Phoenix)**

**Drs. F. Ramirez, M. Shaukat, M. Young, D. Johnson, R. Nanda, N. Gilani, C. Kiafar & Fellows (Stephanie Velarde 602 277-5551 ext 7387, stephanie.velarde@va.gov)**

4 wks; offered year round

Directly supervised/Patient care.

Maximum enrollment of 2

Prerequisites: Medicine 803

**Goals:** This elective is designed to provide exposure to the diagnosis and management of common endocrine diseases including diabetes, thyroid disorders, osteoporosis, lipid disorders, pituitary disease, parathyroid disorders, adrenal conditions and reproductive disorders

**Format:** Students will attend all endocrine, diabetes and bone & thyroid clinics as well as participate in the evaluation of inpatient consults. Observation of thyroid ultrasound and fine needle aspiration is provided as well as exposure to patients with insulin pumps.

**Evaluation Methods:** Direct observation and daily interaction with faculty and residents will serve as the basis for informal feedback and evaluation throughout the course of the rotation. A formal written evaluation will also be completed at the conclusion of the rotation.

**MEDI 815Dm (sect 4) - Clinical Gastroenterology (Mayo Clinic, Scottsdale)**

**Dr. M. Edwyn Harrison (480 301 4338)**

4 wks *only*; offered year round

Not directly supervised/Patient care. Prior approval.

Maximum enrollment of 1

Prerequisites: Medicine 803

**Goals:** This will primarily be a hospital-based experience making daily teaching rounds in the morning with the hospital staff consultant. In the afternoons, the senior clerk will see hospital consults in conjunction with the hospital staff person. Opportunities will be provided for the senior student to see the consult and formulate their impressions and plan prior to the hospital staff consultation.

**Format:** During this time the student will attend GI Pathology Conferences held monthly at the Mayo Clinic, Scottsdale. The student will also attend the Medical Surgical conferences held monthly and the Clinical Pathological Conference at Mayo Clinic Hospital held weekly. The monthly CPC teleconferences from Rochester will also be made available for your attendance and video tapes from Rochester GI conferences could be reviewed in the afternoon. The senior clerk will be on night call with the staff gastroenterologist 2 days per week. There will be no weekend duties assigned.

**Evaluation Methods:** The senior clerkship will be evaluated primarily by the hospital consultant who will have gained an intimate knowledge of the senior clerk's abilities during the rotation.

\*Clerkships of slightly longer or shorter duration may be arranged.

**MEDI 815Ee (sect 2) - Hematology/Oncology (Maricopa Integrated Health System, Phoenix)**

**Drs. C. Jha & Faculty (602 344 5768 or jessica\_hoyer@medprodoctors.com)**

4 wks *only*; offered year round

Not directly supervised/Patient care. Prior approval.

Maximum enrollment of 1

Prerequisites: Medicine 803. Prior reservation MANDATORY.

**Goals:** To strengthen students' skills in the management of patients with malignant disease and in the clinical evaluation of hematologic disorders.

**Format:** The student is an active member of the consultive team under the direct supervision of subspecialist staff. Activities include

consultative service as well as outpatient clinic experience. No call or weekend coverage.

**Evaluation Methods:** Ongoing feedback and written evaluations by the attending at the conclusion of rotation.

**MEDI 815Em (sect 3) - Hematology/Oncology (Mayo Clinic, Scottsdale)**

**Dr. T. Braich (480 301 4338)**

4 wks *only*, offered year round

*Not* directly supervised/Patient care. Prior approval.

Maximum enrollment of 1

Prerequisites: Medicine 803

**Goals:** Students will work with members of the Hematology/Medical Oncology Section in the outpatient setting at Mayo Clinic Scottsdale and in a hospital setting at Mayo Clinic Hospital. The student will learn the diagnostic and therapeutic approaches for hematologic and oncologic disease. Students will learn this through direct patient contact. In addition, students will have an opportunity to expand their basic knowledge with appropriate reading materials as well as weekly clinical conferences. The students will have the opportunity to participate in bone marrow aspirate and biopsy procedures as well as interpretation of peripheral blood smears and serum protein electrophoretic strips.

**Format:** The student will round with a staff physician at the hospital in the morning. The student will see new Hematology/Oncology consults in the hospital and present the case to the staff. In the afternoon the student will see a new sub-specialty consultation at the Clinic with staff supervision.

**Evaluation Methods:** Written evaluation will be provided by each consultant working with the student. A consensus evaluation will then be formulated by the Program Coordinator. A debriefing session will be held with the student for appropriate feedback.

**MEDI 815Ge (sect 2) - Infectious Diseases (Maricopa Integrated Health System, Phoenix)**

**Dr. Y. Takatni (602 344 5768 or jessica\_hoyer@medprodoctors.com)**

4 or 6 wks; maximum length of 16 wks; offered year round

*Not* directly supervised/Patient care.

Maximum enrollment of 1

Prerequisites: Medicine 803. Prior reservation MANDATORY.

**Goals:**

To learn basic skills of diagnosis and management of common infectious diseases. Clinical instruction will involve outpatient clinics, consultations, inpatients, Department of Medicine activities, and the Microbiology laboratory. Students will learn to:

1. Skillfully obtain infectious disease histories, paying special attention to epidemiological clues such as travel, occupation, animal contact, etc.
2. Look for signs of common infectious disease while performing a physical examination.
3. Synthesize findings in order to reach an appropriate diagnosis.
4. Learn proper use of antimicrobial agents.
5. Be able to manage patients with common infectious disease, both in the inpatient and outpatient settings.
6. Should be familiar with appearance of infectious agents on routine CSF, sputum and other body fluid/tissue stained smears.
7. Should have reviewed radiological findings of common infectious disease.

**Format:**

1. *Sessions by the attending* will be held twice per week or more often depending upon how busy the consultation service is. Interesting cases (slides, x-rays) from past cases will be reviewed and discussed.
2. *Case presentation by the medical student:* There is a noon-time infectious disease lecture once per month, which is given by the consultant. Attempts will be made to base the lecture on an interesting patient seen by the medical student. Medical students on rotation will be assisted by the consultant to develop the case presentation.
3. *Self-education:* medical students will be encouraged to read in their spare time on infectious diseases' topics related to consulted patients. For core medical knowledge, they should refer to the infectious diseases' section in *Harrison's Principles of Internal Medicine* (preferred) or *Cecil's Text Book of Medicine* (depending on which one of the two texts is the most recently published). Mayo's *Clinic's Text Book of Medicine* could also be used; however it is limited in scope. A list of important ID study topics will be provided along with a list of recently published key articles.

**Evaluation Methods:** The students' overall performance will be evaluated using the following criteria:

1. Punctuality (20%)
2. Dependability (20%)
3. Interest and enthusiasm (20%)
4. Assessment of knowledge in infectious diseases (multiple choice exam, etc. 40%)

**MEDI 815Gg (sect 3) - Infectious Diseases (Good Samaritan Regional Medical Center, Phoenix)**

**Drs. P. McKellar (Head, Infectious Diseases Section) & Mike Saubolle (602 239 4335) (Jessica Hoyer 602 239 2922 Jessica.hoyer@bannerhealth.com)**

4 or 6 wks; maximum length of 8 wks; **offered October, November, December, April & May to University of Arizona Students only**

Directly supervised/Patient care.

Maximum enrollment of 2

Prerequisites: Medicine 803; **Students must have consent from Dr. McKellar (602 239 4335) BEFORE REGISTERING**

**Goals:** The student will gain an understanding of the differential diagnosis and management of both common and uncommon infectious disease problems.

**Format:** The student will see consultations at Good Samaritan Regional Medical Center with the attending physicians and members of the health care team who assist with consultation of the infectious disease patient, including the clinical pharmacologist and microbiologist. The student will follow all patients in association with residents from the Good Samaritan Regional Medical Center. VAMC Internal Medicine Program who are on this service as an elective rotation. A reading list and references will be provided to each student. The student will attend the city-wide Infectious Disease Conference which occurs weekly in conjunction with the other teaching hospitals in Phoenix.

**Evaluation Methods:** Each student will be evaluated by a full-time faculty member in Internal Medicine. Evaluation will occur throughout the rotation formally at the midpoint and at the conclusion and will assess the student's knowledge and skills in diagnosis and treatment of infectious diseases.

**MEDI 815Hg (sect 1) - Pulmonary Diseases (Good Samaritan Regional Medical Center, Phoenix)**

**Drs. B. Levine (Director, Pulmonary Fellowship - GSRMC), Westfall, Bachus, Gotfried, Ross, Comp, Rohwedder (Director, Pulmonary Fellowship - PVAMC), Baratz & Servi (Jessica Hoyer 602 239 2922 Jessica.hoyer@bannerhealth.com)**

4 wks *only*; offered year round

Directly supervised/Patient care.

Maximum enrollment of 1

Prerequisites: Fourth-year medical students

**Goals:** To provide the student extensive exposure to clinical pulmonary medicine as seen in a large metropolitan hospital.

**Format:** This elective offers an opportunity to the student to view the broad range of diagnostic and therapeutic problems in pulmonary medicine as well as learn about fiber optic bronchoscopy, pulmonary function and respiratory sleep disorders. The student will interact with housestaff, fellows, and faculty of the GSRMC/Phoenix VA Internal Medicine Residency and Pulmonary Fellowship.

**Evaluation Methods:** Student performance will be evaluated by the Program Director, attending pulmonologist and supervising fellow. Each student's performance will be discussed during and at the completion of this clerkship.

Subsidized housing available on a limited basis, prior reservation **MANDATORY**.

**MEDI 815Ie - Medical ICU (Maricopa Integrated Health System, Phoenix)**

**Drs. R. Carlson, S. Zaidi & J. Mand (602 344 5768 or jessica\_hoyer@medprodoctors.com)**

4 wks *only*; offered year round

Directly supervised/Patient care.

Maximum enrollment of 2

Prerequisites: Medicine 803. Prior reservation **MANDATORY**.

**Goals:** To provide the student with hands-on practical experience in the intensive care unit. The emphasis will be on learning an organized diagnostic and therapeutic approach to the critically ill patient with multiple organ system disease.

**Format:** The student will be given the opportunity to be an active and integral part of the ICU team participating in direct patient care, daily attending rounds and a core curriculum of lectures in critical care medicine. By the end of the rotation, the student will have begun to construct a solid foundation in ventilator management, invasive hemodynamic monitoring and procedural skills which will be invaluable for those planning a future in virtually any aspect of clinical practice. In addition to the "high tech" methods employed in a contemporary intensive care unit however strong emphasis remains on a compassionate approach to the patient, the importance of the physical exam, clinical problem solving and the learning of sound general medical principles.

**Evaluation Methods:** Ongoing feedback and a written evaluation by the attending at the conclusion of the student's rotation.

*\*Crosslisted with ANES & SURG 815P*

**MEDI 815Je (sect 2) - Pulmonary Consultation Service (Maricopa Integrated Health System, Phoenix)**

**Drs. J. Mand & S. Zaidi (602 344 5768 or jessica\_hoyer@medprodoctors.com)**

4 wks *only*; offered year round

*Not* directly supervised/Patient care. Prior approval.

Maximum enrollment of 2

Prerequisites: Medicine 803. Prior reservation **MANDATORY**.

**Goals:** To strengthen the student's skills in the care of patients with a wide variety of pulmonary diseases including evaluation, differential diagnosis, and the appropriate use of diagnostic testing in both the acute and outpatient setting.

**Format:** The student is an active member of the consultive team under the direct supervision of subspecialist staff. Activities include consultive service as well as outpatient clinic experience. No call or weekend coverage.

**Evaluation Methods:** Ongoing feedback and written evaluations by the attending at the conclusion of rotation.

**MEDI 815Jm (sect 3) - Pulmonary Consultation Service (Mayo Clinic, Scottsdale)**

**Dr. P. Lyng (480 301 4338)**

4 wks; offered year round

*Not* directly supervised/Patient care. Prior approval.

Maximum enrollment of 1

Prerequisites: Completion of third year clerkships

**Goals:** This clerkship is primarily a hospital-based experience. In the morning, students attend daily teaching rounds with the hospital staff consultant. In the afternoon, students see hospital consultations in conjunction with the hospital staff person. Opportunities are provided for students to see the consultation and formulate their impressions and plan prior to the hospital staff consultation. Specific goals will be:

1. Enhance skills in history taking and physical examination.
2. Learn to feel comfortable with the assessment and treatment of a variety of pulmonary diseases, including (but not limited to) COPD, lung cancer and interstitial lung disease.
3. Learn to interpret pulmonary function tests.

**Format:** During this clerkship, students attend the thoracic diseases pathology conference held monthly at Mayo Clinic, Scottsdale. Students also attend the medical surgical conferences and the weekly clinical pathology conference held at Mayo Clinic Hospital. Students also may attend the monthly CPC teleconference from Rochester. Videotapes from the Rochester thoracic disease conferences are reviewed in the afternoon. Students on night call with the staff consultant two days per week. There are no weekend duties assigned.

**Evaluation Methods:** Hospital consultants who work closely with the students during the elective provide the primary performance evaluations.

**MEDI 815Ke (sect 2) - Nephrology, Renal Diseases (Maricopa Integrated Health System, Phoenix)**

**Drs. J. Mangalat A. Cortez & D. Walton (602 344 5768 or jessica\_hoyer@medprodoctors.com)**

4 wks *only*; offered year round

Not directly supervised/Patient care. Prior approval.

Maximum enrollment of 1

Prerequisites: Medicine 803. Prior reservation MANDATORY.

**Goals:** To provide the student with a broad exposure to patients with acute and chronic renal diseases, acid base and electrolyte disorders.

**Format:** The student is an active member of the consultive team under the direct supervision of subspecialist staff. Activities include consultive service as well as outpatient clinic experience. No call or weekend coverage.

**Evaluation Methods:** Ongoing feedback and written evaluations by the attending at the conclusion of rotation.

**MEDI 815Kg (sect 3) - Nephrology, Renal Diseases (Good Samaritan Regional Medical Center, Phoenix)**

**Dr. D. Chang & Faculty (Jesica Hoyer 602 239 2922 Jessica.hoyer@bannerhealth.com)**

4 wks *only*; offered year round

Directly supervised/Patient care.

Maximum enrollment of 1

Prerequisites: Fourth-year medical students

**Goals:** A broad exposure to patients with all forms of chronic and acute renal disease and to patients with complex acid-base or electrolyte disturbances.

**Format:** Trainees will evaluate patients on the renal teaching service and consultative on the general medical service with renal diseases. A lecture series and a reading list will be provided. Involvement in the Home Training Unit with CAPD patients as well as the Dialysis Unit will also be arranged. The student will interact with housestaff and faculty of the Good Samaritan Regional Medical Center/VAMC Internal Medicine Residency Program.

**Evaluation Methods:** Student performance will be evaluated by the Program Director, attending physician and supervising resident. Each student's performance will be discussed during and at the completion of this clerkship.

Subsidized housing available on a limited basis, prior reservations **MANDATORY**.

**MEDI 815Kh (sect 4) - Nephrology, Renal Diseases (VAMC, Phoenix)**

**Drs. J. Costantino & P. Baker (Stephanie Velarde 602 277-5551 ext 7387)**

3 or 4 wks; maximum length of 4 wks; offered year round

Directly supervised/Patient care.

Maximum enrollment of 2

Prerequisites: Medicine 803

**Goals:** To expose students to a wide range of kidney diseases in both the inpatient (consulting) and outpatient settings.

**Format:** Outpatient clinics and inpatient consulting.

**Evaluation Methods:** Direct observation with personal feedback.

**MEDI 815Qg (sect 1) - Cardiology Consultation (Good Samaritan Regional Medical Center)**

**Dr. K. Desser (Director, Cardiology Fellowship - GSRMC) (Jesica Hoyer 602 239 2922 Jessica.hoyer@bannerhealth.com)**

4 wks *only*; offered year round

Directly supervised/Patient care.

Maximum enrollment of 2

Prerequisites: Fourth-year medical students

**Goals:** To provide the student with training and experience caring for patients with both common complex cardiovascular problems. To enable the student to become proficient in the interpretation of electrocardiograms and exercise stress tests.

**Format:** Students will gain exposure to patients with a wide variety of cardiovascular problems and function as a consultant under the direction of the full-time faculty and cardiac fellows. An in-depth exposure to EKG interpretation will be provided. The core schedule consists of the following:

8:00-9:30 AM Interpretation of electrograms

9:30-11:00 AM Coronary Care Unit rounds

11:00-12:00 PM Exercise stress tests

12:00-2:00 PM Didactic lectures and conferences

2:00-5:00 PM The first two weeks: Cardiac Clinic, Nuclear Cardiology and Pharmacological Stress Tests at Good Samaritan Regional Medical Center. Final two weeks: Cardiology Consultation Service at the Phoenix VAMC.

**Evaluation Methods:** Student performance will be evaluated by the residency program director, clinical faculty and supervising resident or fellow. Each student's performance will be discussed during and at the completion of this clerkship. Subsidized housing available on a limited basis, prior reservation **MANDATORY**.

**MEDI 815Re (sect 1) - Clinical Neurology (Maricopa Integrated Health System, Phoenix)**

**Drs. M. Merroto & J. Richards (602 344 5768 or jessica\_hoyer@medprodoctors.com)**

4 wks *only*; offered year round

*Not* directly supervised/Patient care. Prior approval.

Maximum enrollment of 2

Prerequisites: Medicine 803. Prior reservation **MANDATORY**.

**Goals:** To strengthen the student's skills in evaluating patients with neurologic and neurovascular disorders.

**Format:** The student is an active member of the consultive team under the direct supervision of subspecialist staff. Activities include consultive service as well as outpatient clinic experience. No call or weekend coverage.

**Evaluation Methods:** Ongoing feedback and written evaluations by the attending at the conclusion of rotation.

**MEDI 815Se (sect 2) - Rheumatology (Maricopa Integrated Health System, Phoenix)**

**Dr. B. Hurowitz (602 344 5768 or jessica\_hoyer@medprodoctors.com)**

4 wks; maximum length of 8 wks; offered year round

*Not* directly supervised/Patient care. Prior approval.

Maximum enrollment of 1

Prerequisites: Medicine 803. Prior reservation **MANDATORY**.

**Goals:** To teach the students how to diagnose and treat rheumatic diseases by exposing the students to the diversity of rheumatologic diseases including inflammatory autoimmune diseases (RA, SLE, scleroderma, myositis, vasculitis), degenerative conditions (OA, osteonecrosis), crystal disease/arthritis (gout, hyperuricemia, pseudogout, calcium pyrophosphate), soft tissue rheumatism, seronegative spondyloarthropathies (AS, Reiters, psoriatic arthritis), metabolic bone disease (osteoporosis, osteomalacia, Paget's Disease).

**Format:** Outpatient and inpatient experience in diagnosing and treating rheumatic diseases. Outpatient clinics are held 3-4 times a week. Pediatric Rheumatology Clinic is held once a month. Inpatient consults average 12-14 patients per month. Students will evaluate patients and then present to attending staff. A core curriculum lecture series of eight topics (e.g. RA, Serology, SLE, X-ray interpretation, OA) is also an integral part of the rotation, as well as X-ray and laboratory interpretation in rheumatic diseases.

**Evaluation Methods:** Ongoing feedback and written evaluation by the attending at the completion of the rotation.

**MEDI 815Sh (sect 3) - Rheumatology (VAMC, Phoenix)**

**Drs. Nieman, Attep, & Chang (Stephanie Velarde 602.222.6436, stephanie.velarde@va.gov) Contact Dr. Nieman for further questions and elective scheduling/approval via email: theresa.nieman@va.gov**

4 wks *only*; offered year round

*Not* directly supervised/Patient care. Prior approval.

Maximum enrollment of 1

Prerequisites: Third-year Medicine 803

**Goals:** To expose students to a wide range of rheumatology diseases, in both the inpatient (consulting) and outpatient settings.

**Format:** Outpatient clinics and inpatient consulting.

**Evaluation Methods:** Direct observation with personal feedback.

**MEDI 815Tw (sect 1) - Hospice Palliative/Care for the Terminally Ill (Hospice of the Valley, Phoenix, AZ)**

**Dr. G. Hamilton, Medical Director, & B. Morgan, Director of Education & other Hospice of the Valley staff (602 530 6900)**

3 or 4 wks; offered year round

Directly supervised / patient care.

Maximum enrollment of 2

Prerequisites: Fourth-year medical student

Medical students must have consent of Bonnie Morgan, RN, MA, CHPN before registering.

Goals:

1. To acquaint students with disease processes and their physical manifestations in terminal illness (cancer, AIDS, and other end-stage

disease).

2. To expose students to an interdisciplinary approach which includes the physician and the hospice team. Emphasis is on helping patients and families cope with terminal illness. This would include home care and inpatient settings.
3. To provide a knowledge base for clinical assessments, pain and symptom management. This would include the use of co-analgesia, especially for neoplastic inflammatory pain and intractable pain secondary to bone metastases with special emphasis placed on cancer-related nausea and vomiting.
4. To offer students communication skills to present hospice as an option for patients and families when curative measures are no longer effective.

**Format:** In this didactic and clinical experience, students will participate in patient evaluations, make on-site visits to patients' homes and inpatient hospice units with various hospice team members. Students will participate in interdisciplinary case conferences, significant ethical issues via an ethics committee, clinical problem solving and initial workups of patients admitted to acute care units for symptom management. Direct experience will be supplemented by lectures, i.e. pain management, starvation/dehydration and relevant readings. Students electing the fourth week will do a literature search on a selected symptom, and present an annotated bibliography at end of rotation.

**Evaluation Methods:** Direct observation by team members, oral review of case study with a hospice medical director, ongoing feedback, and a written evaluation at conclusion.

*\*Crosslisted with FCM 815Tw, which is home*

### **MEDI 815Uh (sect 1) - Clinical Endocrinology, Metabolism & Hypertension (VAMC, Phoenix)**

**Drs. Bagdade, Duckworth, Felicetta, Harman, Lawson, Meyer, Plummer, Reaven, Targovnik & Vela (Stephanie Velarde 602 277-5551 ext 7387, stephanie.velarde@va.gov)**

4 wks; offered year round

Directly supervised/Patient care.

Maximum enrollment of 1

Prerequisites: Medicine 803

**Goals:** This elective is designed to provide exposure to the diagnosis and management of common endocrine diseases including diabetes, thyroid disorders, osteoporosis, lipid disorders, pituitary disease, parathyroid disorders, adrenal conditions and reproductive disorders.

**Format:** Students will attend all endocrine, diabetes and bone & thyroid clinics as well as participate in the evaluation of inpatient consults. Observation of thyroid ultrasound and fine needle aspiration is provided as well as exposure to patients with insulin pumps.

**Evaluation Methods:** Direct observation and daily interaction with faculty and residents will serve as the basis for informal feedback and evaluation throughout the course of the rotation. A formal written evaluation will also be completed at the conclusion of the rotation.

### **MEDI 815Wm (sect 2) - Women's Health (Mayo Clinic, Scottsdale)**

**Dr. P. David (480 301 4338)**

4 wks *only*; offered year round

*Not* directly supervised/Patient care. Prior approval.

Maximum enrollment of 1

Prerequisites: Fourth year medical student

**Goals:** This elective is designed to provide the medical student with an opportunity to focus on health issues specific to the health and prevention of disease in women of all ages. This outpatient rotation will provide a medical perspective on the epidemiology of diseases presenting in women with special emphasis on the patient including heart disease, breast and colon cancer and osteoporosis. The prevention of these diseases as a function of hormone replacement therapy, calcium supplementation, nutrition and cholesterol management will be emphasized. Exposure to other health issues such as contraception, basic outpatient gynecology, musculoskeletal diseases and psychosocial issues. At completion of elective students will have heightened awareness of the etiology, symptoms and progress of diseases experienced by women.

Specific goals are:

1. To learn the diagnostic and therapeutic approaches for diseases prevalent in women through direct patient contact.
2. Expand basic knowledge with reading materials provided and through attendance at appropriate conferences.
3. Focus knowledge on designated topic agreed with attendings through presentation of material at divisional conference.
4. Enhance awareness of disease conditions in women and gain knowledge of interactive skills with female patients.
5. Exposure to skills necessary for successful management of patient problems including clinic organization, phone services, nutrition and educational services.
6. Learn triage skills, indications for hospitalization and referral for specialty consultation.
7. Exposure to the electronic medical record.

**Format:** Students will attend clinic from 8-5PM each day. Reading time may occur during the day. Attendance at all conferences including Internal Medicine Grand Rounds is **MANDATORY**. Video tapes may be viewed in the library. There will be some exposure to mammography, the MCS breast clinic and bone mineral analysis will be available. There is no night call or weekend duty.

**Evaluation Methods:** Students will be evaluated by attendings with a written evaluation which will represent a consensus opinion regarding basic skill level as reflected in fund of knowledge, history and physical examination, acquisition of new knowledge, performance in presentation and patient interaction. Completion of the reading list is considered fundamental to a passing grade as is attendance on a daily basis.

**MEDI 816Cp - Outpatient Private Practice - Primary Care (Private Practice Office, Phoenix)**

**Dr. B. Bethancourt (602 254 4424)**

4 or 6 wks; maximum length of 6 wks; offered year round

Directly supervised/Patient care. Prior approval.

Maximum enrollment of 1

Prerequisites: Fourth year medical student

**Goals:** This elective is in a private practice general internal medicine setting. Students will learn the importance of outpatient primary care medicine. Areas of importance are preventative health and screening, care of chronic disease, i.e., DM-I, hyperlipidemia, asthma, COPD, CHF, etc. Emphasis will be in preventative health guidelines for preventative health. Students will learn to deal with common chronic problems, multiple chronic diseases. There will be one on one contact with patients who have complex problems. Students will check cholesterol screening, hypertension screening, and malignancies. There will be an option to do pre-surgery evaluation, and exercise treadmill testing. There will be no on call duties.

**Format:** Students will see one - two patients per hour. Students will formulate assessment and a treatment plan.

**Evaluation Methods:** Evaluation will be on a patient to patient basis. Final evaluation will be on patient care, medical knowledge and physician-patient relationship.

**MEDI 816G – Rheumatology and Metabolic Bone Disease (Arizona Rheumatology Center, Phoenix)**

**Drs. S. Gluck and/or J.R.P. Tesser (602 246 1964)**

3, 4 or 6 wks; offered year-round

Directly supervised

Maximum enrollment of 2

Prerequisites: none

**Goals:** Upon successful completion of this elective, students will be able to: evaluate new patients by performing histories and physical examinations appropriate to rheumatology and metabolic bone diseases; plan diagnostic work-ups and therapeutic interventions; consult on the modification of treatment plans on follow-up patients that the student sees with the attending rheumatologist.

**Format:** In the elective the student actively evaluates new patients, performs histories and physical examinations, and plans diagnostic work-ups and therapeutic interventions. In addition, modifications of treatment plans are enacted on follow-up patients that the student sees with the attending rheumatologist. Discussions of differential diagnosis, the utility of diagnostic studies including laboratory testing, x-ray procedures including bone densitometry and interpretation of reports (a state-of-the-art **Hologic 4500** DEXA is on premises), and **histopathological biopsy results** occur during patient interactions concurrently. Similarly discussions of treatment interventions including the use of non-steroidal anti-inflammatory drugs, second-line anti-rheumatic drugs, immunosuppressive/cytotoxic **drugs, biologic agents**, and various drugs for osteoporosis take place concurrently.

Didactic sessions are held at least once weekly and include discussions of the following:

1. classification and approach of rheumatic disorders.
2. laboratory testing in the rheumatic diseases.
3. rheumatoid arthritis.
4. seronegative spondyloarthropathies.
5. osteoarthritis.
6. SLE.
7. osteoporosis/metabolic bone disease.
8. non-articular rheumatic disorders including fibromyalgia.

Readings in the Primer on Rheumatic Diseases as well as selected articles from the literature are encouraged.

**Evaluation Methods:** Performance on the rotation will be judged on the basis of patient evaluations, discussions of diagnostic and therapeutic recommendations, and demonstration of the readings that the student has done during daily discussions.

**MEDI 816Kp (sect 2) – Care of the Older Adult**

**Dr. G. Hall (602 631 6573)**

3 or 4 wks; maximum length of 8 wks; offered year round

Directly supervised/Patient care

Maximum enrollment 1

Prerequisites: Fourth year medical student, with consent from instructor prior to registering

**Goals:** To provide the student with a clinical and community-based experience with older adults. Emphasis will be placed on the multifaceted aspects of aging as well as the interdisciplinary approach to geriatric care. Students will be exposed to a continuum of care from the least restrictive to most restrictive environments.

**Format:** Students will work under the direct supervision of a geriatrician/gerontologist as a member of a multi-disciplinary team. The continuum of care will be provided in both institutional and community based settings. The experience will address cross-cultural aspects of aging, health promotion, and the maintenance of functional abilities. Students will be exposed to home care, a comprehensive geriatric evaluation clinic, assisted living, and hospice care.

Students may focus on areas of interest that include rural health, community-based care, optimal aging, and home visits with elders. A plan and schedule will be developed to meet the student's learning objectives as well as cover basic principles of care for older adults. A reading syllabus will be provided.

**Evaluation Methods:** Direct observation and feedback by preceptors will occur at the various clinical sites. Students will keep a journal and will make a presentation on a health topic to a group of older persons or community group.

*Crosslisted with FCM 816Kp*

**MEDI 891Bh - Ambulatory Internal Medicine: Clinical Problems (VAMC, Phoenix)**

Drs. K. Piatt (Chief, Ambulatory Services - PVAMC), Burke, Reust, Peters, Koffer & Laurel (602 222 6423)

4 or 6 wks; maximum length of 6 wks; offered year round except for June

*Not* directly supervised/Patient care. Prior approval.

Maximum enrollment of 2

Prerequisites: Medicine 803

**Goals:** To provide the student with the basis for developing his/her skills in evaluation, diagnosis and development of differential diagnosis and therapeutic plans for patients with acute and chronic medical problems both common and complex, in the setting of a federally funded facility which provides continuing care for a specific population based at the VAMC.

The residents are on required rotations through the VAMC Outpatient Department.

**Format:** At the VAMC the student will elect half-day blocks from a schedule which includes: 1) Primary Care Clinics; 2) Life Support Unit (Medical Emergency Room); 3) The student may elect additional sub-specialty rotations in Dermatology, Rheumatology, Endocrinology, etc., to complete the weekly format. In each outpatient block the student will be the first to make patient contact. He/she will then present the patient to one of the full-time faculty members who will guide the evaluation and treatment. Students will interact with faculty and residents of the Good Samaritan Regional Medical Center/VAMC Internal Medicine Residency Program.

**Evaluation Methods:** Each student will be evaluated by a full-time faculty member in Internal medicine. Evaluation will occur throughout the rotation, formally at the midpoint and at the conclusion and will assess knowledge and skills in diagnosis and treatment in the outpatient setting.

Meals are provided. Housing: On-call - Provided; Off-call - Space available basis, no charge to

The University of Arizona College of Medicine students, prior reservation **MANDATORY**.

#### **MEDI 891Ch - Pulmonary Medicine (VAMC, Phoenix)**

**Drs. A. Thomas, P. Rocha, O. Austrheim, J. Roehrs, R. Robbins, C. Singarajah & Fellows (Stephanie Velarde 602 277-5551 ext 7387)**

4 wks, maximum length of 8 wks; offered year round

*Not* directly supervised/Patient care. Prior approval.

Maximum enrollment of 3

Prerequisites: Medicine 803

**Goals:** This elective involves the student actively in both the in-patient and out-patient management of patients with a wide variety of pulmonary diseases. Current management of such common pulmonary problems as tuberculosis, COPD, asthma, lung cancer, fibrotic lung diseases, bronchiectasis and pneumonia are emphasized.

**Format:** The student will round with staff attendings, fellows and residents from the Banner Good Samaritan /VAMC Internal Medicine Residency Program on both in-patients and out-patients. There is no overnight call for students.

**Evaluation Methods:** Informal one-on-one observation over the course of the elective and a formal written evaluation at the conclusion of the rotation. Special emphasis will be placed on content knowledge, clinical judgment, professionalism, and attention to psychosocial issues of patients with pulmonary disease..

#### **MEDI 891Dh - Cardiology (VAMC, Phoenix)**

**Drs. Duffey, Cardello, Halligan, & Cooper (Stephanie Velarde 602 277-5551 ext 7387, stephanie.velarde@va.gov)**

4 wks, maximum length of 8 wks; offered year round

Directly supervised/Patient care.

Maximum enrollment of 2

Prerequisites: Fourth-year medical students

**Goals:** This elective is designed to give the fourth-year student greater familiarity with diagnosis and management of the common cardiac diseases including coronary artery disease, congestive heart failure, arrhythmias, myocarditis and valvular disease. The student will become actively involved in both the inpatient and outpatient management of cardiac disease. There will be emphasis on bedside physical examination and cardiac consultation.

**Format:** Students round with cardiology attendings, fellows and residents on both inpatients and outpatients. There is no overnight call.

**Evaluation Methods:** Direct observation and daily interaction with attending faculty and fellows will serve as the basis for student evaluation during the rotation and at the conclusion of the rotation. Written evaluation at conclusion and frequent feedback during the course.

#### **MEDI 891Eh - Hematology/Oncology (VAMC, Phoenix)**

**Drs. J. Salvatore, R. Sarid, J. Federio (Stephanie Velarde 602.222.6436, stephanie.velarde@va.gov)**

4 wks; maximum length of 8 wks; offered year round

Directly supervised/Patient care.

Maximum enrollment of 3

Prerequisites: Medicine 803

**Goals:** The student will receive both outpatient and inpatient consult experience in the diagnosis and management of a number of common malignancies including lung cancer, colon cancer, stomach cancer, lymphomas and multiple myeloma. The student will be actively involved in the decision-making process in both inpatients and outpatients, in conjunction with housestaff and faculty of the Good Samaritan Regional Medical Center/VAMC Internal Medicine Residency Program.

**Format:** Hematology/Oncology Clinic meets for three mornings each week. There is also a very active inpatient consult service. There is no call for rotating students.

**Evaluation Methods:** Direct observation and daily interaction with faculty and residents will serve as the basis for informal feedback and evaluation throughout the course of the rotation. A formal written evaluation will also be completed at the conclusion of the rotation.

**MEDI 891Fg - Medical Toxicology/Clinical Pharmacology (Good Samaritan Regional Medical Center, Phoenix)**

**Drs. S. Curry (Director, Toxicology Fellowship -GSMRC) (Jessica Hoyer 602 239 2922 Jessica.hoyer@bannerhealth.com)**

4 wks *only*; offered August through May to University of Arizona students only

Directly supervised/Patient care or non-patient care.

Maximum enrollment of 1

Prerequisites: Completion of required clerkships

**Goals:**

1. To acquaint the student with the pathophysiology, diagnosis and treatment of acute and chronic poisonings by pharmaceuticals, household products, industrial chemicals and natural toxins.

2. To acquaint the student with drug interactions, adverse drug effects and clinical therapeutics.

**Format:** The students will be acting under the guidance of toxicology fellows or faculty members of the Departments of Medical Toxicology & Clinical Pharmacology. Direct care of poisoned patients, clinical pharmacology consultations and rounds, and didactic conferences account for most activities. Students will be required to take out-of-hospital call every third night and will be required to come in from off-campus to see patients when on call. Students will interact with housestaff and faculty of the Good Samaritan Regional Medical Center/VAMC Internal Medicine Residency Program.

**Evaluation Methods:** Feedback and evaluation will occur informally throughout the rotation through one on one observation and interactions with the Toxicology/Pharmacology faculty. There will also be a formal written evaluation at the conclusion of the elective, with a special emphasis on content knowledge, professionalism, and clinical skills/judgment.

Subsidized housing available on a limited basis, prior reservation **MANDATORY**.

**MEDI 891Ge - HIV Service (Maricopa Integrated Health System and McDowell Clinic, Phoenix)**

**Drs. J. Post, A. Culp & A. Myers (602 344 5768 or jessica\_hoyer@medprodoctors.com)**

4 wks *only*; offered year round

*Not* directly supervised/Patient care. Prior approval.

Maximum enrollment of 1

Prerequisites: Medicine 803. Prior reservation **MANDATORY**.

**Goals:** Improvement of clinical skills in treating patients with HIV disease.

**Format:** The majority of the student's experience will be spent at the McDowell AIDS Clinic. This is an active ambulatory care clinic staffed by Maricopa Integrated Health System, Phoenix, physicians which in addition to providing medical care offers nutritional, social, emotional and psychiatric counseling to its patients. The student will learn primary care of HIV infected persons including early intervention and treatment of HIV infection and its complications. Interested students will have the opportunity to become familiar with and participate in ongoing clinical trials and compassionate use drug protocols. Additional inpatient experience possible.

**Evaluation Methods:** Written evaluation by attending at the conclusion of the elective.

**MEDI 891He - Internal Medicine Preceptorship (Maricopa Integrated Health System, Phoenix)**

**Drs. D. Wisinger & J. Raj (602 344 5768 or jessica\_hoyer@medprodoctors.com)**

4 wks *only*; offered year round

Directly supervised/Patient care.

Maximum enrollment of 1

Prerequisite: Medical students must have consent of Course Director before registering.

**Goals:** To provide the student an opportunity to work closely with a particular faculty member primarily to strengthen clinical skills and knowledge base.

**Format:** As defined by student and instructor.

**Evaluation Methods:** Performance evaluation by direct observation of assessment skills and case presentation.