
SURGERY

Rainer Gruessner, MD. Head
John J. Ferrara, M.D., Associate Head, Phoenix Campus

SURG 810Ae (sect 4)- General Surgery (Maricopa Integrated Health Systems, Phoenix)

Full-time General Surgery Attendings in the Department of Surgery

(Joyce Ortego 602 344 5601 joyce_ortego@medprodoctors.com)

4 wks only; not offered in June or July

Maximum enrollment of 1

Directly supervised/Patient care.

Prerequisites: Fourth-year medical student

Goals: The student will develop and enhance skills in the initial evaluation of surgical patients, develop plans for definitive care of surgical patients including both inpatients and outpatients, and then participate in that care as an integral part of the surgical team. Experience and confidence will be gained both in diagnostic and therapeutic surgical options.

Format: The student will function at the sub-intern level of one of the General Surgery services at Maricopa Medical Center. He/She will participate in outpatient clinics, emergency room consultations, inpatient consultations, teaching rounds, and both minor and major operative procedures.

Evaluation Methods: The medical student will be evaluated by residents and attendings during teaching rounds, didactic conferences, and operations in which they perform and/or assist. Expectations and results to be provided in oral and written formats.

SURG 810Ag (sect 5) - General Surgery (Good Samaritan Regional Medical Center, Phoenix)

Dr. Paul Dabrowski and attending staff, (Tami Eckenrode 602 239 2282 tami.eckenrode@bannerhealth.com)

4 wks; maximum length 4 wks; offered year round

Directly supervised/Patient care.

Maximum enrollment of 1

Prerequisites: Completion of required clerkships

Goals: A general surgery experience with emphasis on advanced laparoscopy and complex problems involving the Biliary tract, pancreas and gastrointestinal tract. It is also expected for the student to participate in patient care rendered in the surgeon's office as well as the wards at Good Samaritan Regional Medical Center.

Format: Typical subinternship by incorporation into the resident team.

Evaluation Methods: Standard University of Arizona College of Medicine evaluation forms used.

SURG 810Am (sect 6) - General Surgery (Mayo Clinic, Scottsdale)

Dr. K. Harold (Silvana D'Alessandro 480 342 2690 dalessandro.silvana@mayo.edu)

4 wks *only*; not offered in June or July

Directly supervised/Patient care. Prior approval.

Maximum enrollment of 2

Prerequisites: Completion of required clerkships. Medical students must have consent of Course Director before registering.

Goals:

1. To learn appropriate preoperative evaluation of the surgical patient.
2. To learn intraoperative techniques in general surgery, including but not limited to, colon and rectal, hepatobiliary, vascular, endocrine, oncologic, and laparoscopic surgery.
3. To better understand the three dimensional anatomical relationship necessary to perform surgery.
4. To learn appropriate postoperative care of the surgical patient.

Format: In the clinic the students will see patients and present them to the staff surgeon and will assist with ordering tests and writing preoperative orders. The student will assist on all operative cases and perform appropriate portions of the operations. Finally, the student will care for a small group of patients postoperatively. On the hospital service the students will make daily rounds with the supervising consultant and will have opportunities for individual assessment of patients, both pre- and postoperatively prior to consultant evaluation. Students will also participate in all educational conferences.

Evaluation Methods: Written evaluation will be provided by each consultant working with the student.

SURG 810Be - Burn Care (Maricopa Integrated Health System, Phoenix)

Dr. M. Peck (Joyce Ortego 602 344 5601 joyce_ortego@medprodoctors.com)

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

Directly supervised/Patient care.

Maximum enrollment of 2

Prerequisites: Fourth-year medical students or Surgery 803

Goals:

1. Learn the principles of burn evaluation and initial care.
2. Gain experience in the critical care of burn patients.
3. Participate in operative management.

4. Participate in outpatient management of acute and chronic burn patients.

Format: Will participate as a member of the burn team in patient resuscitation and initial management, ward rounds, conferences and operative care.

Evaluation Methods: Will be evaluated by the Director and Associate Director based on clinical performance.

SURG 811Bf - BNI Neurological Surgery (St. Joseph's Hospital Center, Barrow Neurological Institute, Phoenix)

Dr. Volker Sonntag & BNI Faculty (Sandra.Edwards@chw.edu, 602 406 3382 - (fax) 602 406 7188)

4 wks; maximum length; offered 8.31.09 - 9.25.09, 9.28.09 - 10.23.09 and 10.26.09 - 11.20.09

Directly supervised/Patient care.

Maximum enrollment of 6 per month

Prerequisites: Applications for this MSIV elective are approved/disapproved by the Department of Neurosurgery at Barrow Neurological Institute of St. Joseph's Hospital and Medical Center. Please submit a CV, list of clerkships and USMLE Step 1 scores (preferably more than) 30 days prior to the start of the rotation to St. Joseph's Hospital and Medical Centers' Clerkship Coordinator.

Goals: This elective exposes the senior medical student to a high volume, full spectrum clinical neurosurgery service. One hundred and eighty-two beds of the hospital are dedicated to the treatment of neurological patients, including 11 state-of-the-art surgical suites. Academic activities are an integral part of the program. Students are expected to actively participate in department conferences and will make one presentation during Clinical Conference.

Format: The senior student is assigned to a PGY1-2 neurosurgery resident on the service and is expected to function as a team member participating in patient care, education and research.

Evaluation Methods: Direct observation by faculty physicians and/or housestaff with written evaluations. The medical student will complete Clerkship survey

SURG 811Dh - Podiatric Medicine & Surgery (Carl T. Hayden VA Medical Center, Phoenix)

Dr. E. Tierney (Bethany Jonas 602 277 5551 x 7495 bethany.jonas@va.gov)

3 or 4 wks *only*; offered year round

Directly supervised/Patient-care.

Maximum enrollment - 12/yr

Prerequisites: Completion of clinical clerkships

Goals: This elective is designed to offer a comprehensive introduction to podiatric medicine and surgery. The student will be able to: improve fundamental surgical skills (e.g., suturing, injections, minor surgery); perform a complete diabetic foot exam; properly debride lower extremity ulcers and formulate a wound care regimen; interpret foot and ankle x-rays; assist in the care of foot and ankle trauma; assist in the preoperative assessment, intraoperative treatment, and postoperative care of reconstructive surgical patients.

Format: Students will participate in hands-on clinical training, both outpatient and inpatient. Students will examine and treat patients under the supervision of podiatric residents and attendings. They will assist in surgery and participate in rounds and consults. Students are required to attend lectures and participate in workshops. A podiatric library is available.

Evaluation Methods: A summative written evaluation of students will be completed by attendings and residents. An oral presentation by the student will be evaluated and feedback is given throughout the rotation.

SURG 815Cm (sect 2) - Neurosurgery (Mayo Clinic, Scottsdale)

Dr. M. Lyons (Silvana D'Alessandro 480 342 2690 dalessandro.silvana@mayo.edu)

4 wks *only*; offered year round

Directly supervised/Patient care. Prior approval.

Maximum enrollment of 1

Prerequisites: Completion of Neurology clerkships

Goals: To gain a better understanding of the neurological history and physical examination as it pertains to the neurosurgical patient. To understand what constitutes a neurosurgical emergency. To gain a basic understanding of the management of the following neurosurgical problems:

- a) head injury, both minor and severe
- b) spinal injury, with and without neuro deficit
- c) cervical and lumbar disc disease
- d) carotid occlusive disease
- e) aneurysmal subarachnoid hemorrhage
- f) brain tumor
- g) epilepsy management
- h) movement disorders surgery
- i) outpatient neurosurgical care/evaluation

To gain a better understanding of the different types of neuro-radiology imaging tests and how they are used in neurosurgical patients.

Format: In the morning, students participate in rounds with the attending neurosurgeon, resident and paramedical

staff. Students also participate in daily observation or assist with surgical procedures at the hospital. Afternoon activities include post-operative rounds at the hospital and/or outpatient clinic activities with the physician assistants. Students are expected to attend the various neuroscience conferences at Mayo Clinic Scottsdale. Students may elect to be on call one night out of four and be available to assist with the evaluation and/or surgical treatment of trauma cases or other acute neurosurgical emergencies at the hospital. There is opportunity for interested students to participate in preparation of manuscripts for publication.

Evaluation Methods: The consultants and physician assistants evaluate students based on their daily performance and their understanding of the goals described above. No formal written or oral examinations are given; however, students are asked to summarize their experience for future medical student reference.

SURG 815Em (sect 2) - Urology (Mayo Clinic, Scottsdale)

Dr. P. Andrews (Silvana D'Alessandro 480 342 2690 dalessandro.silvana@mayo.edu)

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

Directly supervised/Patient care. Prior approval.

Maximum enrollment of 1

Prerequisites: Completion of required clerkships

Goals: The clerkship takes place at Mayo Clinic, Scottsdale and Mayo Clinic Hospital. The entire spectrum of urologic surgery, including endoscopic surgery, endourology, ESWL, major open surgery, and GU prosthetic surgery for patients with benign and malignant diseases of the urinary tract can be seen.

1. To gain a practical, working knowledge of urologic diseases, diagnostic workup, and surgical treatments.
2. To perform urethral catheterization and selected minor procedures.
3. To observe and assist at surgery.

Format: The student will be involved in all aspects of the patient's care from the initial clinic evaluation through the diagnostic workup, surgical treatment, and postoperative care. Close supervision will be provided by the urologic consultants. The student will be expected to read about the pathophysiology and other aspects of the individual cases on the service and participate in ongoing educational discussions about those cases. On-call participation is not required.

Evaluation Methods: Written and oral evaluation of the student will be provided by the urologic consultants.

SURG 815Je (sect 2) - Otorhinolaryngology (Maricopa Integrated Health System, Phoenix)

Dr. R. Oppenheimer (Joyce Ortego 602 344 5601 joyce_ortego@medprodoctors.com)

4 wks max *only*; not offered in June or July

Not directly supervised/Patient care. Prior approval.

Maximum enrollment of 1

Prerequisites: Fourth-year medical students

Goals: To familiarize the medical student with Otolaryngology as a surgical specialty.

Format: Outpatient clinics are held on Monday, Wednesday and Thursday and Operating Room experience on Tuesday and Friday. Students will assist the resident and staff in both clinical care and in the Operating Room.

Evaluation Methods: Evaluation of each student will be issued at the end of the rotation. Each student's performance will be discussed during and at the completion of this clerkship.

SURG 815Jm (sect 3) - Otorhinolaryngology (Mayo Clinic, Scottsdale)

Dr. M. Hinni (Silvana D'Alessandro 480 342 2690 dalessandro.silvana@mayo.edu)

4 wks *only*; offered year round

Not directly supervised/Patient care.

Maximum enrollment of 1

Prerequisites: Completion of clerkships

Goals: This clerkship takes place entirely on the Mayo Clinic, Scottsdale campus and Mayo Clinic Hospital. Students will be supervised directly by consultants, both in the outpatient clinic and hospital service.

1. To expose the student to the scope of the speciality.
2. To develop skills in a complete head and neck exam using reflected light, mirrors, and hand-held instruments.
3. To learn to arrive at a diagnosis in an orderly way using history, examination, and appropriate laboratory tests.
4. To become familiar with basic hearing tests, their value and limitations.
5. Exposure, in the operating room, to the scope of the otolaryngology - head and neck surgical practice.

Format: In the outpatient clinic students will be expected to perform a history and physical examination on several patients a day. After reviewing the case with the consultant, the student will assist in ordering tests and procedures and will be present when the patient returns at the conclusion of the workup. In the hospital service, students will attend rounds with their supervising consultant. Opportunities will be available to assist with surgical procedures on patients they have evaluated in the Clinic. Clerks are not expected to take call, so their evenings are available for independent study. Expo-

sure to the full spectrum of otolaryngology procedures can be expected including: head and neck cancer; microsurgery of the ear, nose, and paranasal sinus disease and surgery; and facial plastic surgical procedures. Time will also be spent in the Department of Audiology and Speech Pathology.

Evaluation Methods: Written evaluations will be provided by each consultant working with the student.

SURG 815K Surgical & Non-surgical Management of Spine Disorders

Michael W. Cluck, M.D., Ph.D. (Donna Lahey (602) 953-9500 mwcluck@gmail.com)

Spine Institute of Arizona; 9735 North 90th Place; Scottsdale, AZ 85259

4 wks *only*; offered year round

Not Directly supervised/ Patient care

Maximum enrollment of 2, minimum enrollment 2

Prerequisites: Completion of 3rd year Clerkships

Goals: (1) A more thorough understanding of spine anatomy and pathology.(2) Learn the appropriate surgical and non-surgical treatment plans for patients with common spine diseases.(3) Exposure to the concept of comprehensive spine care provided by multiple physicians with different specialties

Format:The course is based on the concept of a preceptor and student. Students will rotate at various hospitals: Scottsdale Shea and Arrowhead (currently)The student will have one on one educational opportunities with the preceptor (supervising physician) on a daily basis during the entire rotation. The following is a sample of what the student may experience while on the rotation: perform and record history and physical examination on patients in clinic. Round on patients in the hospital and make entries in the medical record regarding the status, impression, and treatment plan of the patients. Attend appropriate conferences and departmental meetings for educational purposes when available including a weekly spine journal club with patient case presentations. Observe and participate in diagnostic and therapeutic procedures and surgery as a member of the spine team. The student will scrub on surgical procedures if interested when approved by the patient and supervising physician. The student may perform procedures at the discretion of the supervising physician following suitable instruction and under the direction of the supervising physician, resident or fellow.

Evaluation: Preceptors will evaluate students and students will evaluate preceptors at the end of the rotation through written evaluation forms. The students will be evaluated in 5 performance areas: ability to obtain appropriate history and physical, develop a differential diagnosis, describe treatment options and possible outcomes, surgical skills, and individual and teamwork efforts. Students will evaluate the preceptors and rotation based on 5 criteria: preceptor teaching ability, preceptor availability, overall student experience in the clinic, overall student experience in the OR, overall educational experience of the rotation.

SURG 815Me (sect 3) – Trauma (Maricopa Integrated Health Systems)

Drs. PJ O'Neil, M. Matthews,& T. Kopelman (Joyce Ortego 602 344 5601 joyce_ortego@medprodoctors.com)

Maximum length of 4 wks; not offered in June or July

directly supervised/Patient care

Maximum enrollment of 2

Prerequisites: Fourth year medical student, one general surgery elective

Goals: Upon completion of this offering students will be able to utilize the principles of trauma evaluation and care; demonstrate experience in the care of trauma patients; participate in operative management; and participation outpatient management of acute and chronic trauma patients.

Format: The student will function at the sub intern level on the Trauma Service at Maricopa Medical Center. He/She will participate in daily ICU/Trauma rounds, outpatient clinics, and in the overall care of the trauma patient. The student is also expected to attend and participate in the weekly Trauma/ICU conference.

Evaluation Methods: Students will be evaluated by the director and associate director based on clinical performance, basic knowledge, skills and ability to relate and work with members of other departments, peers, and ancillary staff. Input will also be considered from residents on the service, participation in teaching rounds, clinics, conferences, and overall participation in patient management.

SURG 815Mg (sect 4) - Trauma (Good Samaritan Regional Medical Center, Phoenix)

Dr. J. Ferrara & Attending Trauma Faculty (Tami Eckenrode 602 239 2282 tami.eckenrode@bannerhealth.com)

4 wks, maximum length 4 wks; offered year round

Directly supervised/Patient care.

Maximum enrollment of 1

Prerequisites: Prior surgical clerkship desirable

Goals: To offer a comprehensive experience in the evaluation, resuscitation and treatment of the injured patient.

Format: The student will function as an integral part of the unit with a "running mate" at the PGY-III level. The student will follow the patient's progress from admission to discharge, including resuscitation, opera-

tion, if needed, and postoperative intensive care. Daily ICU Rounds and Trauma Conference attendance is required.

Evaluation Methods: Written appraisal by the faculty as to basic knowledge, skills and ability to relate to patients, one's peers, nurses and paramedical personnel.

SURG 815Ne - Spinal Cord Injury (Maricopa Integrated Health System, Phoenix)

Dr. J. Porter (Joyce Ortego 602 344 5601 joyce_ortego@medprodoctors.com)

3 wks *only*; offered year round

Not directly supervised/Patient care. Prior approval.

Maximum enrollment of 2

Prerequisites: Fourth-year medical students

Goals:

1. Introduce the student to the catastrophic nature of spinal cord injury
2. Offer a frame of information and skills considered essential for an acceptable level of acute and long-term care in this expanding population
3. Ultimately improve medical accessibility for the spinal injury in his/her home community

Upon completion, the interested student will be aware of most of the clinical problems unique to spinal cord injury.

Format:

A. Students will be expected to:

1. Make daily rounds with attendings, 8:00 AM.
2. Workup new admissions or assigned patients.
3. Participate in conferences and treatment decisions.

B. Students will be provided:

1. Pertinent bibliographic and resource materials, case presentations.
2. Assigned times with physical therapy, occupational therapy, social service, nursing, recreation therapy, respiratory therapy, urotechs and discharge planners.

Evaluation Methods: Because this course is a "one-on-one" experience, student performance, based on interest, abilities and fund of general clinical knowledge, will be graded by each instructor without formal examination.

SURG 815Qe (sect 3) - Plastic Surgery (Maricopa Integrated Health System, Phoenix)

Dr. S. Lettieri (Joyce Ortego 602 344 5601 joyce_ortego@medprodoctors.com)

4 wks *only*; not offered in June or July

Not directly supervised/Patient care. Prior approval.

Maximum enrollment of 1

Prerequisites: Fourth-year medical students

Goals: Introduce the student to the clinical practice of plastic and reconstructive surgery. This would be provided in a multispecialty clinic setting. The emphasis is on patient care and attempts would be made to give the student an understanding of the principles of plastic and reconstructive surgery.

Format: The student would be required to live in the Phoenix metropolitan area during that period of time. Evaluation would be made by the Teaching Physician in Plastic Surgery, and the student would be assigned to what was felt to be the most interesting and rewarding activities of the service. If there are other interesting activities during the rotation in some of the other surgical specialties, the student would be allowed to attend and observe these. A one-to-one direct teaching would be utilized. The medical student would be considered part of the Plastic Surgery Team, consisting of the Teaching Physician, the Plastic Surgery Resident, and the rotating General Surgery Resident.

Evaluation Methods: Evaluation by the Teaching Physician in Plastic Surgery using the standard University of Arizona evaluation form.

SURG 815Qm (sect 4) - Plastic Surgery (Mayo Clinic, Scottsdale)

Dr. A. Smith (Silvana D'Alessandro 480 342 2690 dalessandro.silvana@mayo.edu)

4 wks *only*; offered year round

Not directly supervised/Patient care.

Maximum enrollment of 1

Prerequisites: Fourth-year medical students

Goals: This clerkship would take place at Mayo Clinic, Scottsdale and Mayo Clinic Hospital. The student will see patients in the Clinic with the consulting physician, make rounds in the hospital and scrub in surgery. Students are not expected to be on-call, so their evenings and weekends may be available for independent study.

1. To acquaint the student with surgical principles, sterile techniques, and operative techniques.
2. To learn the principles of basic wound care.
3. To observe problem solving situations in patient care.
4. To become familiar with the scope of plastic surgery.
5. To become familiar with techniques of reconstructive surgery.
6. Will be exposed to hand surgery, exams & anatomy.

Format: The student will attend clinics and assist with surgical procedures. The student will be responsible for an oral presentation on a selected topic to be given at the end of the rotation.

Evaluation Methods: Written evaluation will be provided by each consultant working with the student.

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

SURG 815Rg - Clinical Experience in Rehabilitation Medicine (Good Samaritan Regional Medical Center, Phoenix)

Dr. J. Porter 602.944.2222

4 wks *only*; offered year round

Not directly supervised/Patient care. Prior approval.

Maximum enrollment of 2

Prerequisites: Completion of required clerkships

Goals:

1. Familiarization with the role of rehabilitation medicine as a discipline in modern medicine.
2. Acquisition of clinical skills in the evaluation and management of patients with diseases and disabilities within the purview of rehabilitation medicine so as to be able to provide primary care for some of the more common forms of these disorders.
3. Appreciation of the contribution of rehabilitation medicine to the care of catastrophic disabilities so as to have the capability of referral of such patients for comprehensive rehabilitation services.

Format:

1. Clinical experiences at the Institute of Rehabilitation Medicine under the preceptorship of Institute Faculty to include:
 - a. In-patient assignments of patients representing a variety of physical disabilities such as stroke, head injury, spinal cord injury, amputations, arthritis, multiple sclerosis and other disorders involving the locomotor system including local musculoskeletal disorders as well as systemic disorders. These assignments would be divided among in-patients on the Rehabilitation Medicine Service and consultations on other services throughout the hospital.
 - b. Out-patient assignments including patients with similar disabilities to the above who are returning for follow-up care as well as patients who are undergoing electromyographic and nerve conduction studies.
2. Community experiences to demonstrate the liaison between a medical rehabilitation center and community rehabilitation agencies such as the Department of Vocational Rehabilitation, Goodwill Industries, the Hope Rehabilitation Program for the Brain Injured, the Visiting Nurse Association, etc.
3. Classwork in the form of daily one and a half hour presentations on subjects related to rehabilitation medicine by the faculty and associated staff at the Institute of Rehabilitation Medicine. Subjects covered would include: the history and present role of rehabilitation medicine in modern medicine, fundamentals of history-taking for the assessment of function, performance of the neurological examination, performance of the musculoskeletal examination, gait assessment, the rationale and prescription of ambulatory aids, fundamentals of prostheses, fundamentals of orthoses, rehabilitation psychology-evaluation and management techniques, the role of the allied health professional in rehabilitation medicine (physical therapy, occupational therapy, social work, speech pathology, etc.). Presentations on common physical disability states such as stroke, head injury, spinal cord injury, arthritis, amputations, regional musculoskeletal problems, etc.

Evaluation Methods:

1. The students will be given an objective written examination at the beginning of the elective. The same examination will be repeated at the end of the elective so that the scores for each test can be compared. The examination will cover basic material covered in the didactic sessions.
2. The preceptors will score the students on the clinical experiences using the traditional A-B-C-D-F system. The major factors in scoring will include: development of clinical skills in evaluation, development of skills in interacting with the professional team: intellectual curiosity, independent and creative thinking, professional attitude and behavior, reliability and honesty.
3. The students will evaluate the elective by completing a written evaluation form concerning the didactic presentations using the scoring system of A-B-C-D-F based on content, method of presentation and the applicability of the material.
4. The students will complete a written evaluation at the end of the elective concerning the clinical experiences, individually rating them according to the grading system noted above. On these evaluations, the students will have some space in which to elaborate upon the suggestions for improvement of the elective.
5. The students will meet with the Medical Director (who will serve as program coordinator) at the end of the elective to review the results of their pre- and post-test scores as well as to verbally review their observations of the course itself.

SURG 815Uh - Head & Neck Surgery (VAMC, Phoenix)

VAMC Attending (Bethany Jonas, 602.277.5551 x 7495 bethany.jonas@va.gov)

4 wks, maximum length 4 wks; offered year round

Directly supervised/Patient care.

Maximum enrollment of 1

Prerequisites: Completion of required clerkships

Goals: To offer extensive experience in diagnosis, work-up and management of patients with diseases of the head and neck with special emphasis on the treatment of head and neck cancer.

Format: The fourth-year student will be an active member of the Head and Neck Service Clinical team functioning essentially at a PGY-I level.

Evaluation Methods: Written appraisal by the faculty based on observation of the students' skills, knowledge and ability to relate to individuals.

SURG 815Wg - Pediatric Urology (Phoenix Children's Hospital)

Dr. R. Bailey Jr. (Diane Poskus, 520.626.3972 dposkus@surgery.arizona.edu)

4 wks *only*; offered year round

Directly supervised/Patient care.

Maximum enrollment of 2

Prerequisites: none

Goals: Expose the students to the field of pediatric urology with emphasis on the diagnosis and treatment of the more common urological problems in children including urinary tract infections, vesicoureteral reflux, enuresis, obstructive uropathies, scrotal pathology and hypospadias.

Format: The students will accompany faculty on rounds, assist at surgery and participate in clinics. Students will be expected to perform histories and physical exams on selected patients and follow their clinical course. A pediatric urology textbook will be provided.

Evaluation Methods: A written evaluation will be provided of the student's overall performance including participation on rounds, in the operating room and the quality of workups. Each student will be required to give a short presentation on a topic in pediatric urology at the end of the rotation.

SURG 816Ae (sect 2) - Pediatric Surgery (Maricopa Integrated Health System, Phoenix)

Attending Surgeon (Joyce Ortego 602 344 5601 joyce_ortego@medprodoctors.com)

4 wks *only*; not offered in June or July

Not Directly supervised/Patient care.

Maximum enrollment of 1

Prerequisites: Fourth-year medical student

Goals: To offer a comprehensive introduction to neonatal and pediatric surgery. This experience will include exposure to patients in the newborn nursery, pediatric intensive care unit and on the pediatric floor. The student will be involved in all aspects of the child's pediatric surgical care from the clinic or inpatient environment; including diagnostic evaluation, surgical treatment and postoperative care.

Format: The student will participate, under faculty supervision, in the management of pediatric surgical patients. This will be an elective in which the student experiences a "one on one" learning opportunity with the course faculty; allowing for direct education including daily academic rounds, selected conferences, supervised procedures, operating room participation and guided topical reading.

Evaluation Methods: A written evaluation will be provided of the student's overall performance; including participation in rounds, in the operating room and clinical behavior. Each student will be given feedback during and following completion of the rotation.

**Crosslisted with PED 816Ae*

SURG 816Ag (sect 3) - Pediatric Surgery (Phoenix Children's Hospital)

Drs. Notrica, McGill, Lacey, Dimler (Tami Eckenrode 602 239 2282 tami.eckenrode@bannerhealth.com)

4 wks *only*; offered year round

Directly supervised

Maximum enrollment of 1

Prerequisites: Surgery Clerkship; permission of instructor required

Goals: To have an introductory experience in pediatric surgery as a sub-intern. Emphasis will be placed on the unique supportive management of infants and children, their disease processes requiring operation, surgical procedures appropriately selected, and post-operative care. Special knowledge in evolution and diagnosis as well as surgical correction of congenital anomalies and newborn problems will be gained. Conditions necessitating surgery in childhood will also be observed.

Format: Serve as a sub-intern on a pediatric surgical service.

Evaluation: Standard University of Arizona evaluation forms.

**Crosslisted with PED 816Ag*

SURG 816Be - Hand Surgery (Maricopa Integrated Health System, Phoenix/St. Luke's Hospital)

Dr. A. Mohty (602 344 9646, ext. 22)

4 wks *only*; offered year round

Directly supervised/Patient care. Prior approval.

Maximum enrollment of 1

Prerequisites: Fourth-year medical students

Goals: To familiarize the student with common injuries and diseases affecting the hand and to emphasize the importance

of diagnosis and timely treatment.

Format: One on one instruction, both didactic and in clinical setting by faculty and Hand Resident. Patients will be drawn from outpatient, inpatient and Emergency Room clientele.

Evaluation Methods: Written evaluation by faculty and discussion with student.

SURG 816Ge - Vascular Surgery (Maricopa Integrated Health Systems, Phoenix)

Dr. W. Schell (Joyce Ortego 602 344 5601 joyce_ortego@medproductors.com)

4 wks *only*; not offered in June or July

Maximum enrollment of 2

Not Directly supervised/Patient care

Goals:

1. To obtain a basic grounding in the practice of vascular surgery with particular emphasis on the detection of vascular disease and its diagnosis by the primary care practitioner.
2. To understand the indications for vascular surgical consultation in select disease processes and the physiologic/pathologic basis of current vascular surgical interventions.
3. To understand the broad range of wound care options.

Format: The student will be an integral member of the vascular surgery team with two didactic conferences, two clinics and three operating days each week. He/She will work with the team in clinics, OR and ward rounds; read non-invasive vascular studies and angiograms and perform initial consults/workups along with the team. Night call will be limited to PRN calls for vascular or service emergencies.

Evaluation Methods: Evaluation will be done by residents and faculty in daily work situations during teaching rounds and in didactic conferences. Student's performance will be discussed during and at completion of the rotation with counseling and written evaluation.

SURG 816Gg (sect 2) - Vascular Surgery (Good Samaritan Regional Medical Center)

Drs. Brink, Carlon and Thomas (Tami Eckenrode 602 239 2282 tami.eckenrode@bannerhealth.com)

4 wks *only*; offered year round

Directly supervised

Maximum enrollment of 1

Prerequisites: Surgery Clerkship; permission of instructor required

Goals: To grasp an understanding of vascular surgery by serving as a sub-intern. Knowledge will be gained in clinical examination of vascular problems, interpretation of Duplex examination data as well as angio grams, patient selection for which type of revascularization procedures, the individual operative procedures by serving as a member of the surgical team, postoperative care, and long term outcome. There will also be didactic sessions on the vascular lab and ultrasound as well as application of those diagnostic modalities. Endovascular approaches will likewise be observed. There will also be experience in methods and indications for anticoagulant therapy.

Format: Serve as a sub-intern on a busy vascular surgery service.

Evaluation: Standard University of Arizona evaluation forms.

SURG 816Ig - Transplantation (Good Samaritan Regional Medical Center)

Dr. Brink, Cashman, & Koep (Tami Eckenrode 602 239 2282 tami.eckenrode@bannerhealth.com)

4 wks *only*; offered year round

Directly supervised

Maximum enrollment of 1

Prerequisites: Surgery Clerkship; permission of instructor required

Goals: To obtain an understanding of the immune system and its clinical suppression in order to allow organ transplantation. Experience will be gained in kidney and pancreatic transplantation and will include organ procurement, recipient selection and preparation, operative organ implantation, follow-up, and recognition as well as management of the various types of rejection phenomena. Some emphasis will be placed on vascular access for dialysis as well. There will also be participation in organ preservation in the ex-vivo state.

Format: Serve as a sub-intern on a surgical transplantation service.

Evaluation: Standard University of Arizona evaluation forms.

SURG 816Lp - Bariatric Medicine**Dr. R. Blackstone (Diane Giammarion 480 391 3885)**

4 wks only; offered year round

Not directly supervised/Patient care

Minimum enrollment of 1

Prerequisites: Fourth-year student. Completion of required clerkships; Must have consent from Course Director before registering.

Goals:

1. To learn the current biological/ physiologic/ social and psychological basis of morbid obesity as a disease.
2. To understand the contribution of each allied health team member in a comprehensive approach to morbid obesity.
3. To understand the indications for surgical treatment of morbid obesity and the preoperative evaluation and preparation of the patient for surgery.
4. To expose the student to the primary procedures used to treat the patient including gastric band and revision of previous procedures to gastric bypass.
5. To understand the optimal clinical pathway for morbid obese patient perioperatively.
6. To learn the appropriate post operative care of the morbid obese patient perioperatively.
7. To understand the goals of long term follow up of the patient over time.

Format: *Not* directly supervised/Patient care. Prior Approval. The motivated fourth year medical student recognizes that the morbid obese patient represents a challenge to their clinical practice. The focus of the clinical experience will be for the student to follow patients throughout the process working along side the Bariatric Team. The student will participate in initial patient evaluation, observe surgery, attend a two-hour informed consent patient seminar and attend the pre- and post-operative educational classes (12 hour didactic). In addition, they will observe live surgery (facilitated by the laparoscopic approach) with intra-operative instruction as to where problems may arise short and long term which may manifest in their patients post-operatively. They will follow patients in continuity on the Bariatric Unit and participate in Multidisciplinary Grand Rounds on the Bariatric Unit. They will participate in a live patient

psychological evaluation. They will also attend support group during the month of the rotation to better understand the patient perspective peri-operatively. They will be responsible for making a 15-minute presentation during journal club during the month of the rotation.

Evaluation Methods: Written evaluations by the Bariatric team working with the students will evaluate the students on their clinical and academic performance.

