Texas Tech University Health Sciences Center  
General Surgery Residency Program  
Lubbock, Texas

Competency Based Goals and Objectives  
By Rotation

A. Medical Knowledge  
B. Patient Care  
C. Practice Based Learning and Improvement  
D. Interpersonal and Communication Skills  
E. Professionalism  
F. System Based Practice

Rotation: NEUROSURGERY  
Level: PGY 1  
Supervising Attending: Nevan Baldwin, MD  
Length: 1 month

Medical Knowledge  
Goal  
The resident will achieve detailed knowledge of the evaluation and management of neurosurgical patients. The resident will learn to critically evaluate and demonstrate knowledge of how to access today’s scientific information.

Objectives  
• Demonstrate proficiency in the anatomy, physiology, and embryology of the nervous system.  
• Demonstrate proficiency in the pathology and diagnosis of neurosurgical diseases and understand the fundamentals of evaluating surgical risks in both elective and emergency.  
• Have thorough knowledge of neuroanatomy and neurophysiology related to neuro trauma.  
• Have comprehensive knowledge of work up and care of neurosurgery patients in trauma, including intracranial (closed and open) and spinal injuries.  
• Expand the fund of knowledge from text books, journals, and electronic media.  
• Demonstrate understanding of potential neurosurgical complications. Know the management of these complications.  
• Demonstrate investigatory and analytical clinical thinking.  
• Demonstrate acceptance of the importance of life long learning as a way to maintain surgical knowledge.  
• Develop the habit of regularly reading about each surgical problem he or she encounters.

Patient Care  
Goal  
The resident will provide care that is compassionate, appropriate, and effective for the treatment of the surgical patient. The resident will develop manual dexterity and be able to develop and execute patient care plans appropriate for their level of training.

Objectives  
• Demonstrate the ability to gather essential and accurate patient information.  
• Demonstrate appropriate assessment of neurosurgical patients including neuro exam with Glasgow Coma scale.  
• Plan and implement evaluation and management of head and spine trauma patients.
Competency Based Goals & Objectives by Rotation

- Conduct basic interpretation of CT and MR scans of the head and spine. Evaluate basic thoracic and lumbar spine imaging and studies.
- Recognize the differences in spinal injuries (stable versus unstable fractures) and learn the use of immobilizing devices.
- Demonstrate basic understanding of managing increased intracranial pressure and ventricular shunts.
- Make informed decisions about diagnostic and therapeutic interventions based on level of training.
- Efficiently complete patient care activities.
- Understand the principles involved in operations, handling of tissue, dissection of tissue planes, suture and ligature techniques, and perform operative procedures appropriate for level of training.
- Maintain timely, legible, and thorough medical records.
- Provide safe patient care.
- Be reliable and honest.

**Practice Based Learning and Improvement**

**Goal**
The resident will investigate and evaluate his or her own patient care practices, appraise and assimilate scientific evidence, and initiate improvement in patient care.

**Objectives**
- Analyze, critique, and review surgical literature as it applies to practice based medicine.
- Use information technology and other multimedia resources to increase medical knowledge and assist in patient care.
- Participate in the education of medical students and other health care professionals.
- Prepare for, and participate in, M&M.

**Interpersonal and Communication Skills**

**Goal**
The resident will learn to demonstrate interpersonal and communication skills that result in effective information exchange with patients, their families, and professional associates.

**Objectives**
- Demonstrate the ability to respectfully and effectively develop a therapeutic relationship with patients and their families.
- Work well with faculty, nurses, and other support staff.
- Gather essential information from patients to be able to document patient encounters accurately and completely.
- Respect diversity and cultural, ethnic, spiritual, emotional, and age specific differences in patients and other members of the health care team.
- Write orders and progress reports in coherent and legible manner. Develop the habit of keeping the patients and their families informed and up to date regarding their clinical status.
- Communicate effectively with senior residents, attendings, and consultants.

**Professionalism**

**Goal**
The resident will learn to demonstrate a commitment to carrying out professional responsibilities, adherence to organizational and ethical principles, and demonstrate sensitivity to diverse patient population.

**Objectives**
• Understand the importance of honesty in the doctor/patient relationship and other medical interactions.
• Respond and answer pages promptly.
• Demonstrate open and responsive attitude to feedback from other team members, patients, families, and peers.
• Practice patient advocacy at all times.
• Complete medical records honestly and punctually.
• Dress appropriately and in a professional manner at all times.
• Show respect and understanding of the patient’s and their family’s emotional state and cultural differences.
• Show self initiative and integrity.

System Based Practice
Goal
The resident will demonstrate an awareness of, and responsiveness to, the larger context and system of healthcare and be able to call on system resources to provide care that is of optimal value to their patients.

Objectives
• Practice quality, cost effective healthcare.
• Advocate and facilitate patient advancements through the healthcare system.
• Understand, access, and utilize resource providers and systems to provide optimal care for their patients.
• Understand the importance of cost to benefit analysis.
• Understand the value of, and uses, practice guidelines. Work with other healthcare professionals to provide patient focused care within the larger system.
• Apply standardized care plans and know the rational behind them for: A) admission for head trauma, B) management of intracranial pressure, and C) steroid protocol in spinal cord injury.
Rotation: RENAL TRANSPLANTATION  
Level: PGY 1 and PGY 3  
Supervising Attending: David Van Buren, MD  
Length: 1 month  

Medical Knowledge  
Goal  
The resident will achieve detailed knowledge of the evaluation and management of renal transplant patients. The resident will learn to critically evaluate and demonstrate knowledge of how to access today’s scientific information.

Objectives
- Discuss comprehensively renal anatomy and physiology as it relates to transplant surgery.
- Demonstrate knowledge of indications for renal transplants.
- Demonstrate knowledge of diagnostic workup and preoperative evaluation for renal transplant recipients and donors.
- Demonstrate comprehensive knowledge of postoperative care of renal transplant recipients, including immunosuppression, and operative complications and treatment.
- Have knowledge of indications, evaluation, risk, possible complication, and postoperative care of patients undergoing surgical access for dialysis.
- Demonstrate acceptance of the importance of life long learning as a way to maintain surgical knowledge.
- Develop the habit of regularly reading about each surgical problem he or she encounters.

Patient Care  
Goal  
The resident will provide care that is compassionate, appropriate, and effective for the treatment of the patient. The resident will develop manual dexterity and be able to develop and execute patient care plans appropriate for their level of training.

Objectives
- Plan and implement work up, preoperative preparation, and postoperative care of renal transplant recipients and living related donors.
- Develop and implement plan for preoperative evaluation and preparation, and postoperative care of dialysis access patients.
- Assist in performing donor nephrectomy (laparoscopic and open).
- Assist and partially perform renal transplantation.
- Demonstrate proficiency in placing percutaneous dialysis catheters.
- Assist and partially perform vascular access surgery for dialysis.
- Administer and monitor appropriate immunosuppressive therapy for renal transplant patients.
- Illustrate basic understanding of renal ultrasounds.
- Evaluate laboratory data in postoperative renal transplant patients.
- Learn to maintain close communication with senior residents and attendings.
- Maintain timely, legible, and thorough medical records.
- Provide safe patient care.
- Be reliable and honest.

Practice Based Learning and Improvement  
Goal  
The resident will investigate and evaluate his or her own patient care practices, appraise and assimilate scientific evidence, and initiate improvement in patient care.

Objectives
• Analyze, critique, and review surgical literature as it applies to practice based medicine.
• Use information technology and other multi media resources to increase medical knowledge and assist in patient care.
• Participate in the education of medical students and other health care professionals.
• Apply knowledge of study design and statistical methods to appraise the literature and conduct scientific research.
• Prepare for, and participate in, M&M.

Interpersonal and Communication Skills
Goal
The resident will learn to demonstrate interpersonal and communication skills that result in effective information exchange with patients, their families, and professional associates.

Objectives
• Demonstrate the ability to respectfully and effectively develop a therapeutic relationship with patients and their families.
• Work well with faculty, nurses, and other support staff.
• Gather essential information from patients to be able to document patient encounters accurately and completely.
• Respect diversity and cultural, ethnic, spiritual, emotional, and age specific differences in patients and other members of the health care team.
• Write orders and progress reports in coherent and legible manner. Develop the habit of keeping the patients and their families informed and up to date regarding their clinical status.
• Communicate effectively with senior residents, attendings, and consultants.

Professionalism
Goal
The resident will learn to demonstrate a commitment to carrying out professional responsibilities, adherence to organizational and ethical principles, and demonstrate sensitivity to diverse patient population.

Objectives
• Understand the importance of honesty in the doctor/patient relationship and other medical interactions.
• Respond and answer pages promptly.
• Demonstrate open and responsive attitude to feedback from other team members, patients, families, and peers.
• Practice patient advocacy at all times.
• Complete medical records honestly and punctually.
• Treat patients, families, staff, and other personnel with respect and honestly.
• Dress appropriately and in a professional manner at all times.

System Based Practice
Goal
The resident will demonstrate an awareness of, and responsiveness to, the larger context and system of healthcare and be able to call on system resources to provide care that is of optimal value to their patients.

Objectives
• Practice quality, cost effective healthcare.
• Advocate and facilitate patient advancements through the healthcare system.
• Understand, access, and utilize resource providers and systems to provide optimal care for their patients.
• Understand the importance of cost to benefit analysis.
• Understand the value of, and uses, practice guidelines. Work with other healthcare professionals to provide patient focused care within the larger system.
• Apply standardized care plans and know the rational behind them, including: A) bowel preparations, B) immunosuppressive prophylaxis, and C) care of central lines in immunocompromised patients.
Rotation: **GASTROENTEROLOGY**  
Level: **PGY 1**  
Supervising Attending: Joseph Hancock, MD  
Length: **1 month**

**Medical Knowledge**

Goal  
The resident will achieve detailed knowledge of the evaluation and management of patients with GI and liver diseases. The resident will learn to critically evaluate and demonstrate knowledge of how to access today’s scientific information.

Objectives  
- Demonstrate proficiency in the anatomy, physiology, and embryology of the GI/liver system.  
- Demonstrate proficiency in the pathology and diagnosis of GI/liver diseases.  
- Expand the fund of knowledge from text books, journals, and electronic media.  
- Demonstrate investigatory and analytical clinical thinking.  
- Demonstrate acceptance of the importance of life long learning as a way to maintain knowledge.  
- Develop the habit of regularly reading about each problem he or she encounters.

**Patient Care**

Goal  
The resident will provide care that is compassionate, appropriate, and effective. The resident will develop manual dexterity and be able to develop and execute patient care plans appropriate for their level of training.

Objectives  
- Demonstrate the ability to gather essential and accurate patient information.  
- Demonstrate appropriate assessment and plan for work up of patients with upper and lower GI bleeding.  
- Demonstrate appropriate assessment and work up of patients with acute or chronic liver failure.  
- Know the pathophysiology, work up and medical and surgical treatment of inflammatory bowel disease.  
- Know the work up and treatment for the most common liver tumors.  
- Demonstrate thorough knowledge of and manual dexterity to perform diagnostic esophago-gastro-duodenoscopy efficiently.  
- Demonstrate thorough knowledge of and manual dexterity to perform diagnostic colonoscopy efficiently.  
- Efficiently complete patient care activities.  
- Maintain timely, legible, and thorough medical records.  
- Provide safe patient care.  
- Be reliable and honest.

**Practice Based Learning and Improvement**

Goal  
The resident will investigate and evaluate his or her own patient care practices, appraise and assimilate scientific evidence, and initiate improvement in patient care.

Objectives  
- Analyze, critique, and review surgical literature as it applies to practice based medicine.  
- Use information technology and other multi media resources to increase medical knowledge and assist in patient care.  
- Participate in the education of medical students and other health care professionals.
- Prepare for, and participate in, M&M.

**Interpersonal and Communication Skills**

**Goal**
The resident will learn to demonstrate interpersonal and communication skills that result in effective information exchange with patients, their families, and professional associates.

**Objectives**
- Demonstrate the ability to respectfully and effectively develop a therapeutic relationship with patients and their families.
- Work well with faculty, nurses, and other support staff.
- Gather essential information from patients to be able to document patient encounters accurately and completely.
- Respect diversity and cultural, ethnic, spiritual, emotional, and age specific differences in patients and other members of the health care team.
- Write orders and progress reports in coherent and legible manner. Develop the habit of keeping the patients and their families informed and up to date regarding their clinical status.
- Communicate effectively with senior residents, attendings, and consultants.

**Professionalism**

**Goal**
The resident will learn to demonstrate a commitment to carrying out professional responsibilities, adherence to organizational and ethical principles, and demonstrate sensitivity to diverse patient population.

**Objectives**
- Understand the importance of honesty in the doctor/patient relationship and other medical interactions.
- Respond and answer pages promptly.
- Demonstrate open and responsive attitude to feedback from other team members, patients, families, and peers.
- Practice patient advocacy at all times.
- Complete medical records honestly and punctually.
- Dress appropriately and in a professional manner at all times.
- Show respect and understanding of the patient’s and their family’s emotional state and cultural differences.
- Show self initiative and integrity.

**System Based Practice**

**Goal**
The resident will demonstrate an awareness of, and responsiveness to, the larger context and system of healthcare and be able to call on system resources to provide care that is of optimal value to their patients.

**Objectives**
- Practice quality, cost effective healthcare.
- Advocate and facilitate patient advancements through the healthcare system.
- Understand, access, and utilize resource providers and systems to provide optimal care for their patients.
- Understand the importance of cost to benefit analysis.
- Understand the value of, and uses, practice guidelines. Work with other healthcare professionals to provide patient focused care within the larger system.
• Apply standardized care plans and know the rational behind them for: A) admission for head trauma, B) management of intracranial pressure, and C) steroid protocol in spinal cord injury.
Rotation: NIGHT FLOAT
Level: PGY 1
Supervising Attending: Ari Halldorsson, MD
Length: 1 month

Medical Knowledge
Goal
The resident will achieve detailed knowledge of the evaluation and management of surgical patients in an emergency and trauma setting. The resident will learn to critically evaluate and demonstrate knowledge of how to access today’s scientific information.

Objectives
- Demonstrate proficiency in the anatomy, physiology, and embryology of organ system as it pertains to surgical diseases.
- Discuss fundamental knowledge about surgical problems (and their management) commonly seen in the emergency room.
- Acquire thorough knowledge of commonly seen postoperative complications and their treatment.
- Demonstrate basic knowledge in diagnosis and management of trauma patients.
- Take and pass ATLS, ACLS, and PALS.
- Learn the principles of preoperative and postoperative management, including fluid and electrolyte management, pain control, wound care, drain management, and postoperative care.
- Demonstrate acceptance of the importance of life long learning as a way to maintain surgical knowledge.
- Develop the habit of regularly reading about each surgical problem he or she encounters.

Patient Care
Goal
The resident will provide care that is compassionate, appropriate, and effective for the treatment of the surgical patient. The resident will develop manual dexterity and be able to develop and execute patient care plans appropriate for their level of training.

Objectives
- Comprehensively evaluate new patients and take new consultations with the goal of identifying major surgical problems and developing a plan for diagnosis and treatment.
- Identify patients who are unstable, critically ill, and are developing new complications.
- Be able to initiate treatment in the emergency room and intensive care setting.
- Manage critically ill patients in the ICU and step down units.
- Perform basic emergency surgical procedures under supervision, including placement of chest tubes, placement of central venous catheters, urinary catheter placements, hernia repairs, abscess evacuations, and minor emergency abdominal procedures.
- Demonstrate the ability to gather essential and accurate patient information.
- Efficiently complete patient care activities.
- Learn to maintain close communication with senior residents and attendings.
- Maintain timely, legible, and thorough medical records.
- Provide safe patient care.
- Be reliable and honest.

Practice Based Learning and Improvement
Goal
The resident will investigate and evaluate his or her own patient care practices, appraise and assimilate scientific evidence, and initiate improvement in patient care.

Objectives
- Analyze, critique, and review surgical literature as it applies to practice based medicine.
- Use information technology and other multimedia resources to increase medical knowledge and assist in patient care.
- Participate in the education of medical students and other health care professionals.
- Analyze practice experience, perform practice based improvement activities and research.
- Prepare for, and participate in, M&M.

Interpersonal and Communication Skills
Goal
The resident will learn to demonstrate interpersonal and communication skills that result in effective information exchange with patients, their families, and professional associates.

Objectives
- Demonstrate the ability to respectfully and effectively develop a therapeutic relationship with patients and their families.
- Work well with faculty, nurses, and other support staff.
- Gather essential information from patients to be able to document patient encounters accurately and completely.
- Respect diversity and cultural, ethnic, spiritual, emotional, and age specific differences in patients and other members of the health care team.
- Write orders and progress reports in coherent and legible manner. Develop the habit of keeping the patients and their families informed and up to date regarding their clinical status.
- Communicate effectively with senior residents, attendings, and consultants.

Professionalism
Goal
The resident will learn to demonstrate a commitment to carrying out professional responsibilities, adherence to organizational and ethical principles, and demonstrate sensitivity to diverse patient population.

Objectives
- Understand the importance of honesty in the doctor/patient relationship and other medical interactions.
- Respond and answer pages promptly.
- Demonstrate open and responsive attitude to feedback from other team members, patients, families, and peers.
- Practice patient advocacy at all times.
- Complete medical records honestly and punctually.
- Treat patients, families, staff, and other personnel with respect and honestly.
- Dress appropriately and in a professional manner at all times.

System Based Practice
Goal
The resident will demonstrate an awareness of, and responsiveness to, the larger context and system of healthcare and be able to call on system resources to provide care that is of optimal value to their patients.

Objectives
• Practice quality, cost effective healthcare.
• Advocate and facilitate patient advancements through the healthcare system.
• Understand, access, and utilize resource providers and systems to provide optimal care for their patients.
• Understand the importance of cost to benefit analysis.
• Be able to implement and understand the rational behind practice guidelines, such as work up and treatment of: A) DVT (or possible pulmonary embolism), B) DVT prophylaxis, and C) trauma protocols including ATLS recommendations.
Rotation: UROLOGY  
Level: PGY 1  
Supervising Attending: Jonathan Vordermark, MD  
Length: 1 month  

Medical Knowledge  
Goal  
The resident will achieve detailed knowledge of the evaluation and management of urologic patients. The resident will learn to critically evaluate and demonstrate knowledge of how to access today's scientific information.

Objectives  
- Discuss the basic anatomy, pathophysiology, and clinical diagnosis and treatment of common urologic conditions including: simple and complex urinary tract infections; urinary tract stones; benign prostatic hypertrophy; bladder, prostate, and kidney cancer; voiding dysfunction; and neurogenic bladder.
- Formulate a logical evaluation and treatment plan for the most common urologic conditions.
- Learn the principles of preoperative and postoperative management, including fluid and electrolyte management, pain control, wound care, drain management, and postoperative care.
- Demonstrate understanding of potential surgical complications. Know the management of these complications.
- Demonstrate acceptance of the importance of life long learning as a way to maintain surgical knowledge.
- Develop the habit of regularly reading about each surgical problem he or she encounters.

Patient Care  
Goal  
The resident will provide care that is compassionate, appropriate, and effective for the treatment of the urologic patient. The resident will develop manual dexterity and be able to develop and execute patient care plans appropriate for their level of training.

Objectives  
- Perform a focused urologic history and physical exam.
- Formulate and manage an appropriate work up and perioperative management of the most common urologic surgeries.
- Properly insert a urinary bladder catheter in patients of all ages.
- Identify advanced techniques for insertion of difficult urinary bladder catheters and perform under supervision.
- Become adept at interpretation of clinical data including urinalysis, intravenous pyelogram, and CT scans for abdomen and pelvis.
- Understand the principles involved in operations, handling of tissue, dissection of tissue planes, suture and ligature techniques, and perform operative procedures appropriate for level of training.
- Learn to maintain close communication with senior residents and attendings.
- Maintain timely, legible, and thorough medical records.
- Provide safe patient care.
- Be reliable and honest.

Practice Based Learning and Improvement  
Goal  
The resident will investigate and evaluate his or her own patient care practices, appraise and assimilate scientific evidence, and initiate improvement in patient care.
Objectives
- Analyze, critique, and review surgical literature as it applies to practice based medicine.
- Use information technology and other multi media resources to increase medical knowledge and assist in patient care.
- Develop a personal program of self study and professional growth with guidance from the teaching staff and faculty.
- Participate in the education of medical students and other health care professionals.
- Prepare for, and participate in, M&M.

Interpersonal and Communication Skills
Goal
The resident will learn to demonstrate interpersonal and communication skills that result in effective information exchange with patients, their families, and professional associates.

Objectives
- Demonstrate the ability to respectfully and effectively develop a therapeutic relationship with patients and their families.
- Work well with faculty, nurses, and other support staff.
- Respect diversity and cultural, ethnic, spiritual, emotional, and age specific differences in patients and other members of the health care team.
- Write orders and progress reports in coherent and legible manner. Develop the habit of keeping the patients and their families informed and up to date regarding their clinical status.
- Communicate effectively with senior residents, attendings, and consultants.

Professionalism
Goal
The resident will learn to demonstrate a commitment to carrying out professional responsibilities, adherence to organizational and ethical principles, and demonstrate sensitivity to diverse patient population.

Objectives
- Understand the importance of honesty in the doctor/patient relationship and other medical interactions.
- Respond and answer pages promptly.
- Demonstrate open and responsive attitude to feedback from other team members, patients, families, and peers.
- Practice patient advocacy at all times.
- Complete medical records honestly and punctually.
- Treat patients, families, staff, and other personnel with respect and honestly.
- Dress appropriately and in a professional manner at all times.

System Based Practice
Goal
The resident will demonstrate an awareness of, and responsiveness to, the larger context and system of healthcare and be able to call on system resources to provide care that is of optimal value to their patients.

Objectives
- Practice quality, cost effective healthcare.
- Advocate and facilitate patient advancements through the healthcare system.
- Understand, access, and utilize resource providers and systems to provide optimal care for their patients.
• Understand the importance of cost to benefit analysis.
• Understand the value of, and uses, practice guidelines. Work with other healthcare professionals to provide patient focused care within the larger system.
Rotation: BURN/WOUND  
Level: PGY 2  
Supervising Attending: John Griswold, MD  
Length: 1 month

Medical Knowledge

Goal
The resident will achieve detailed knowledge of the evaluation and management of surgical patients. The resident will learn to critically evaluate and demonstrate knowledge of how to access today’s scientific information.

Objectives
- Describe and understand the pathophysiology of burn injuries, inhalation injury, carbon monoxide poisoning, electrical injury, frost bite, and chemical burns, along with appropriate treatment for different injuries.
- Discuss the pathophysiology of burn shock and how to resuscitate the burn injured patient using the Parkland formula for adults and pediatric patients.
- Discuss diagnosis and treatment of complications of acute burn injury, including inhalation injury and compartment syndrome.
- Describe the medical consequences of burn injuries.
- Demonstrate thorough understanding of nutrition and nutritional treatment in the burn and chronic wound patient.
- Discuss the principles of early excision and grafting and alternatives to cover burn wounds.
- Discuss pathophysiology of snake and insect bites and their treatment.
- Describe pathophysiology and medical and surgical management of complex wounds.
- Demonstrate acceptance of the importance of life long learning as a way to maintain surgical knowledge.
- Develop the habit of regularly reading about each surgical problem he or she encounters.

Patient Care

Goal
The resident will provide care that is compassionate, appropriate, and effective for the treatment of the burn and wound patient. The resident will develop manual dexterity and be able to develop and execute patient care plans appropriate for their level of training.

Objectives
- Demonstrate proficiency in evaluating severely burned patients and manage fluid resuscitation.
- Perform a comprehensive history and physical on complex wound patients with emphasis on ischemia, metabolic consequences, and nutrition.
- Evaluate perfusion and nutritional parameters and initiate appropriate corrections.
- Pay attention to subtle details and be able to recognize patients with a potential for rapid deterioration.
- Assist and perform common surgical procedures for burns and chronic wounds, especially STSG and muscle flaps.
- Evaluate and treat common complications in this patient population, such as compartment syndrome, coagulopathy, inhalation injury, and infections.
- Conduct the placement of central lines, bronchoscopy, and arterial lines in the burn and wound unit.
- Efficiently complete patient care activities.
- Learn to maintain close communication with senior residents and attendings.
- Provide safe patient care.
- Be reliable and honest.
**Practice Based Learning and Improvement**

**Goal**
The resident will investigate and evaluate his or her own patient care practices, appraise and assimilate scientific evidence, and initiate improvement in patient care.

**Objectives**
- Analyze, critique, and review surgical literature as it applies to practice based medicine.
- Use information technology and other multi media resources to increase medical knowledge and assist in patient care.
- Develop a personal program of self study and professional growth with guidance from the teaching staff and faculty.
- Apply knowledge of study design and statistical methods to appraise the literature and conduct scientific research.
- Assume responsibility for teaching and supervision of subordinate surgical house staff and medical students.
- Prepare for, and participate in, M&M.

**Interpersonal and Communication Skills**

**Goal**
The resident will learn to demonstrate interpersonal and communication skills that result in effective information exchange with patients, their families, and professional associates.

**Objectives**
- Demonstrate the ability to respectfully and effectively develop a therapeutic relationship with patients and their families.
- Work well with faculty, nurses, and other support staff.
- Respect diversity and cultural, ethnic, spiritual, emotional, and age specific differences in patients and other members of the health care team.
- Demonstrate effective leadership of a health care team.
- Write orders and progress reports in coherent and legible manner. Develop the habit of keeping the patients and their families informed and up to date regarding their clinical status.
- Communicate effectively with senior residents, attendings, and consultants.
- Restrain from conflicts with peers and support staff, and enhance morale.

**Professionalism**

**Goal**
The resident will learn to demonstrate a commitment to carrying out professional responsibilities, adherence to organizational and ethical principles, and demonstrate sensitivity to diverse patient population.

**Objectives**
- Understand the importance of honesty in the doctor/patient relationship and other medical interactions.
- Respond and answer pages promptly.
- Demonstrate open and responsive attitude to feedback from other team members, patients, families, and peers.
- Practice patient advocacy at all times.
- Complete medical records honestly and punctually.
- Dress appropriately and in a professional manner at all times.
- Show respect and understanding of the patient’s and their family’s emotional state and cultural differences.
- Participate in discussions and become and integral part of rounds and other teaching activities.
- Participate in appropriate sign outs at the beginning and ending of each shift.
- Prepare for, and participate in, M&M.

System Based Practice

Goal
The resident will demonstrate an awareness of, and responsiveness to, the larger context and system of healthcare and be able to call on system resources to provide care that is of optimal value to their patients.

Objectives
- Advocate and facilitate patient advancements through the healthcare system.
- Provide consultations for other services.
- Appropriately ask for consultations from other services.
- Practice overall efficient cost conscious reliable patient management, both in and out of the operating room.
- Perform and discuss rational behind practice guidelines, such as: A) DVT prophylaxis, B) universal precaution and isolation in the burn unit, C) ventilatory associated pneumonia protocol, and D) burn victim resuscitation protocol.
Rotation:  **PEDIATRIC SURGERY**  
Level:  **PGY 2**  
**Supervising Attending:**  Thomas McGill, MD  
**Length:**  1 month  

**Medical Knowledge**  
**Goal**  
The resident will achieve detailed knowledge of the evaluation and management of the pediatric surgical patients. The resident will learn to critically evaluate and demonstrate knowledge of how to access today’s scientific information.  

**Objectives**  
- Demonstrate thorough knowledge of embryology, anatomy, and pathophysiology of the pediatric patients in relation to surgical diseases.  
- Thorough understanding and knowledge of ATLS and ACLS standards to a child of any age. Take and pass PALS.  
- Describe how to handle airways and breathing for a child of any age.  
- Demonstrate in depth knowledge of indications, management, and complications of ECMO in the pediatric population.  
- Discuss the principles of preoperative and postoperative management, including fluid and electrolyte management, pain control, wound care, drain management, and postoperative care in pediatric patients.  
- Demonstrate understanding of potential surgical complications. Know the management of these complications.  
- Develop well thought out evidence based treatment plans for simple patient care issues.  
- Develop the habit of regularly reading about each surgical problem he or she encounters.  

**Patient Care**  
**Goal**  
The resident will provide care that is compassionate, appropriate, and effective for the treatment of the pediatric surgical patient. The resident will develop manual dexterity and be able to develop and execute patient care plans appropriate for their level of training.  

**Objectives**  
- Demonstrate proficiency at conducting history and physical exam on a child of any age.  
- Demonstrate proficiency in starting an IV and drawing blood on a child of any age.  
- Demonstrate knowledge and management of fluid and electrolyte problems in newborns and pediatric patients.  
- Properly perform gastrostomy tubes, pyloromyotomy, reduction of intussusception, appendectomy, and inguinal herniorrhaphy in children over 1 year of age, excision of branchial cleft sinus and cysts, thyroglossal duct cyst, and circumcision under supervision.  
- Demonstrate proficiency in inserting central lines, NG tubes, and urinary catheters in pediatric patients of all ages.  
- Be adept in assisting in cannulating and decannulating patients for ECHMO.  
- Efficiently complete patient care activities.  
- Learn to maintain close communication with senior residents and attendings.  
- Maintain timely, legible, and thorough medical records.  
- Provide safe patient care.  
- Be reliable and honest.  

**Practice Based Learning and Improvement**  
**Goal**
The resident will investigate and evaluate his or her own patient care practices, appraise and assimilate scientific evidence, and initiate improvement in patient care.

Objectives
- Analyze, critique, and review surgical literature as it applies to practice based medicine.
- Use information technology and other multimedia resources to increase medical knowledge and assist in patient care.
- Develop a personal program of self study and professional growth with guidance from the teaching staff and faculty.
- Apply knowledge of study design and statistical methods to appraise the literature and conduct scientific research.
- Assume responsibility for teaching and supervision of subordinate surgical house staff and medical students.
- Prepare for, and participate in, M&M.

Interpersonal and Communication Skills
Goal
The resident will learn to demonstrate interpersonal and communication skills that result in effective information exchange with patients, their families, and professional associates.

Objectives
- Demonstrate the ability to respectfully and effectively develop a therapeutic relationship with patients and their families.
- Work well with faculty, nurses, and other support staff.
- Gather essential information from patients to be able to document patient encounters accurately and completely.
- Respect diversity and cultural, ethnic, spiritual, emotional, and age specific differences in patients and other members of the health care team.
- Demonstrate effective leadership of a health care team.
- Communicate effectively with senior residents, attendings, junior residents, and ancillary staff.
- Restrain from conflicts with peers and support staff, and enhance team morale.

Professionalism
Goal
The resident will learn to demonstrate a commitment to carrying out professional responsibilities, adherence to organizational and ethical principles, and demonstrate sensitivity to diverse patient population.

Objectives
- Understand the importance of honesty in the doctor/patient relationship and other medical interactions.
- Respond and answer pages promptly.
- Demonstrate open and responsive attitude to feedback from other team members, patients, families, and peers.
- Practice patient advocacy at all times.
- Complete medical records honestly and punctually.
- Dress appropriately and in a professional manner at all times.
- Show respect and understanding of the patient’s and their family’s emotional state and cultural differences.
- Practice being a good teacher to interns, medical students, and support staff.
- Participate in discussions and become an integral part of rounds and other teaching activities.
- Participate in appropriate sign outs at the beginning and ending of each shift.
System Based Practice

Goal
The resident will demonstrate an awareness of, and responsiveness to, the larger context and system of healthcare and be able to call on system resources to provide care that is of optimal value to their patients.

Objectives
- Advocate and facilitate patient advancements through the healthcare system.
- Understand, access, and utilize resource providers and systems to provide optimal care for their patients.
- Provide consultations for other services.
- Appropriately ask for consultations from other services.
- Practice overall efficient cost conscious reliable patient management, both in and out of the operating room.
**Rotation:** OTOLARYNGOLOGY  
**Level:** PGY 1  
**Supervising Attending:** Joehassin Cordero, MD  
**Length:** 1 month

### Medical Knowledge

**Goal**
The resident will achieve detailed knowledge of the evaluation and management of ENT patients. The resident will learn to critically evaluate and demonstrate knowledge of how to access today’s scientific information.

**Objectives**
- Discuss in detail the anatomy, pathophysiology, and embryology of the head and neck region.
- Develop knowledge of the physiology of the upper aerodigestive tract as well as hearing, smell, and taste.
- Develop a comprehensive knowledge of diseases of the head and neck related to otolaryngology and their management, including diseases of the thyroid, parathyroid, neck cancer, upper airway diseases, and diseases of the ear, nose, and throat, including tonsils.
- Discuss diagnosis and management of facial and soft tissue neck trauma.
- Discuss the treatment of common head and neck cancers, including radiation, chemotherapy, and surgery, and complications and treatment related to those treatments.
- Demonstrate acceptance of the importance of life long learning as a way to maintain surgical knowledge.
- Develop the habit of regularly reading about each surgical problem he or she encounters.

### Patient Care

**Goal**
The resident will provide care that is compassionate, appropriate, and effective for the treatment of the ENT patient. The resident will develop manual dexterity and be able to develop and execute patient care plans appropriate for their level of training.

**Objectives**
- Perform a focused ENT history and physical exam.
- Demonstrate proficiency in managing upper airway and tracheotomy problems.
- Perform comprehensive history and physical exam of the head and neck.
- Develop and manage pre and postoperative care of major surgical head and neck patients.
- Demonstrate proficiency in interpreting routine radiographic studies of the head and neck area.
- Perform simple or ultrasound guided aspiration on lymph nodes and thyroid nodules and triple endoscopy on patients.
- Demonstrate technical skills appropriate for minor otolaryngology procedures, including tracheostomy, lymph node biopsies, and minor facial trauma.
- Demonstrate the ability to gather essential and accurate patient information.
- Efficiently complete patient care activities.
- Learn to maintain close communication with senior residents and attendings.
- Maintain timely, legible, and thorough medical records.
- Provide safe patient care.
- Be reliable and honest.

### Practice Based Learning and Improvement

**Goal**
The resident will investigate and evaluate his or her own patient care practices, appraise and assimilate scientific evidence, and initiate improvement in patient care.
Competency Based Goals & Objectives by Rotation

Objectives
- Analyze, critique, and review surgical literature as it applies to practice based medicine.
- Use information technology and other multimedia resources to increase medical knowledge and assist in patient care.
- Develop a personal program of self-study and professional growth with guidance from the teaching staff and faculty.
- Participate in the education of medical students and other health care professionals.
- Prepare for, and participate in, M&M.

Interpersonal and Communication Skills

Goal
The resident will learn to demonstrate interpersonal and communication skills that result in effective information exchange with patients, their families, and professional associates.

Objectives
- Demonstrate the ability to respectfully and effectively develop a therapeutic relationship with patients and their families.
- Work well with faculty, nurses, and other support staff.
- Respect diversity and cultural, ethnic, spiritual, emotional, and age specific differences in patients and other members of the health care team.
- Provide a therapeutic relationship with patients using effective listening skills and candid feedback.
- Communicate effectively with senior residents, attendings, and consultants.

Professionalism

Goal
The resident will learn to demonstrate a commitment to carrying out professional responsibilities, adherence to organizational and ethical principles, and demonstrate sensitivity to diverse patient population.

Objectives
- Understand the importance of honesty in the doctor/patient relationship and other medical interactions.
- Respond and answer pages promptly.
- Demonstrate open and responsive attitude to feedback from other team members, patients, families, and peers.
- Practice patient advocacy at all times.
- Complete medical records honestly and punctually.
- Treat patients, families, staff, and other personnel with respect and honestly.
- Dress appropriately and in a professional manner at all times.
- Show respect and understanding of the patient’s and their family’s emotional state and cultural differences.

System Based Practice

Goal
The resident will demonstrate an awareness of, and responsiveness to, the larger context and system of healthcare and be able to call on system resources to provide care that is of optimal value to their patients.

Objectives
- Practice quality, cost effective healthcare.
- Advocate and facilitate patient advancements through the healthcare system.
• Understand, access, and utilize resource providers and systems to provide optimal care for their patients.
• Understand the value of, and uses, practice guidelines. Work with other healthcare professionals to provide patient focused care within the larger system.
Rotation:  CARDIOTHORACIC SURGERY  
Level: PGY 1  
Supervising Attending:  Ari Halldorsson, MD  
Length:  1 month  

Medical Knowledge  
Goal  
The resident will achieve detailed knowledge of the evaluation and management of cardiothoracic surgical patients. The resident will learn to critically evaluate and demonstrate knowledge of how to access today’s scientific information.  

Objectives  
•  Discuss the anatomy and pathophysiology of the cardiovascular system.  
•  Discuss the anatomy and pathophysiology of the lungs.  
•  Discuss the anatomy and pathophysiology of the esophagus.  
•  Discuss the evaluation, and pre and postoperative care of cardiac, thoracic vascular, and general thoracic surgery patients.  
•  Discuss in detail indications, complications, and management of patients with chest tubes.  
•  Discuss anatomy, pathophysiology, and surgical diseases of the mediastinum.  
•  Learn the basic principles of managing these cases.  
•  Demonstrate acceptance of the importance of life long learning as a way to maintain surgical knowledge.  
•  Develop the habit of regularly reading about each surgical problem he or she encounters.  

Patient Care  
Goal  
The resident will provide care that is compassionate, appropriate, and effective for the treatment of the cardiothoracic surgical patient. The resident will develop manual dexterity and be able to develop and execute patient care plans appropriate for their level of training.  

Objectives  
•  Perform focused cardiopulmonary history and physical exam.  
•  Evaluate lab data in patients undergoing cardiothoracic surgery, including echocardiogram, pulmonary function tests, CT scan, and other radiographic studies.  
•  Demonstrate proficiency in SICU management postoperatively in cardiothoracic surgery patients.  
•  Perform basic clinical procedures, including insertion of central lines and arterial lines, chest tubes, removal of pacing wires, removal of intraaortic balloon pumps, harvest saphenous vein conduits, and primary closure of incisions.  
•  Demonstrate the ability to gather essential and accurate patient information.  
•  Efficiently complete patient care activities.  
•  Learn to maintain close communication with senior residents and attendings.  
•  Maintain timely, legible, and thorough medical records.  
•  Provide safe patient care.  
•  Be reliable and honest.  

Practice Based Learning and Improvement  
Goal  
The resident will investigate and evaluate his or her own patient care practices, appraise and assimilate scientific evidence, and initiate improvement in patient care.  

Objectives  
•  Analyze, critique, and review surgical literature as it applies to practice based medicine.
- Use information technology and other multimedia resources to increase medical knowledge and assist in patient care.
- Participate in the education of medical students and other health care professionals.
- Apply knowledge of study design and statistical methods to appraise the literature and conduct scientific research.
- Prepare for, and participate in, M&M.

**Interpersonal and Communication Skills**

**Goal**
The resident will learn to demonstrate interpersonal and communication skills that result in effective information exchange with patients, their families, and professional associates.

**Objectives**
- Demonstrate the ability to respectfully and effectively develop a therapeutic relationship with patients and their families.
- Work well with faculty, nurses, and other support staff.
- Gather essential information from patients to be able to document patient encounters accurately and completely.
- Respect diversity and cultural, ethnic, spiritual, emotional, and age specific differences in patients and other members of the health care team.
- Write orders and progress reports in coherent and legible manner. Develop the habit of keeping the patients and their families informed and up to date regarding their clinical status.
- Communicate effectively with senior residents, attendings, and consultants.

**Professionalism**

**Goal**
The resident will learn to demonstrate a commitment to carrying out professional responsibilities, adherence to organizational and ethical principles, and demonstrate sensitivity to diverse patient population.

**Objectives**
- Understand the importance of honesty in the doctor/patient relationship and other medical interactions.
- Respond and answer pages promptly.
- Demonstrate open and responsive attitude to feedback from other team members, patients, families, and peers.
- Practice patient advocacy at all times.
- Complete medical records honestly and punctually.
- Treat patients, families, staff, and other personnel with respect and honestly.
- Dress appropriately and in a professional manner at all times.
- Show respect and understanding of the patient’s and their family’s emotional state and cultural differences.

**System Based Practice**

**Goal**
The resident will demonstrate an awareness of, and responsiveness to, the larger context and system of healthcare and be able to call on system resources to provide care that is of optimal value to their patients.

**Objectives**
- Advocate and facilitate patient advancements through the healthcare system.
• Understand, access, and utilize resource providers and systems to provide optimal care for their patients.
• Understand the importance of cost to benefit analysis.
• Understand the value of, and uses, practice guidelines. Work with other healthcare professionals to provide patient focused care within the larger system.

Rotation: CARDIOTHORACIC SURGERY
Level: PGY 3
Supervising Attending: Ari Halldorsson, MD
Length: 1 month

Medical Knowledge
Goal
The resident will achieve detailed knowledge of the evaluation and management of cardiothoracic patients. The resident will learn to critically evaluate and demonstrate knowledge of how to access today’s scientific information.

Objectives
• Discuss the anatomy and pathophysiology of the cardiovascular system.
• Discuss the anatomy and pathophysiology of the lungs.
• Discuss the anatomy and pathophysiology of the esophagus.
• Discuss the evaluation, and pre and postoperative care (including complications) of cardiac, thoracic vascular, and general thoracic surgery patients.
• Discuss in detail indications, complications, and management of patients with chest tubes.
• Discuss anatomy, pathophysiology, and surgical diseases of the mediastinum.
• Describe the anatomy and pathophysiology of patients with the most common of congenital heart disease, including PDA, coarctation, ASD, VSD, and tetralogy of Fallot.
• Discuss management options for patient with thoracic cancers, including esophageal cancer and lung cancer.
• Develop well thought out evidence based treatment plans for simple patient care issues.
• Demonstrate acceptance of the importance of life long learning as a way to maintain surgical knowledge.
• Develop the habit of regularly reading about each surgical problem he or she encounters.

Patient Care
Goal
The resident will provide care that is compassionate, appropriate, and effective for the treatment of the cardiothoracic patient. The resident will develop manual dexterity and be able to develop and execute patient care plans appropriate for their level of training.

Objectives
• Perform focused cardiopulmonary history and physical exam.
• Evaluate lab data in patients undergoing cardiothoracic surgery, including echocardiogram, pulmonary function tests, CT scan, and other radiographic studies.
• Demonstrate proficiency in SICU management postoperatively in cardiothoracic surgery patients.
• Perform basic clinical procedures, including insertion of central lines and arterial lines, chest tubes, removal of pacing wires, removal of intraaortic balloon pumps, harvest saphenous vein conduits, and primary closure of incisions.
• Demonstrate proficiency in handling complex postoperative complications, such as cardiac arrhythmias and bleeding.
• Demonstrate technical skills in assisting or partially performing the most common general thoracic and mediastinal surgical operations, including mediastinoscopy, advanced bronchoscopy, VATS and open decortications, lung resections, and thymectomy.
• Effectively assist in major cardiac surgical cases.
• Demonstrate the ability to place a chest tube under difficult circumstances, such as hemodynamic instability.
• Demonstrate the ability to carry out complex patient management plan in consultation with the attending staff.
• Demonstrate proficiency in opening and closing the most common thoracotomy incisions.
• Learn to maintain close communication with senior residents and attendings.
• Maintain timely, legible, and thorough medical records.
• Provide safe patient care.
• Be reliable and honest.

Practice Based Learning and Improvement
Goal
The resident will investigate and evaluate his or her own patient care practices, appraise and assimilate scientific evidence, and initiate improvement in patient care.

Objectives
• Analyze, critique, and review surgical literature as it applies to practice based medicine.
• Use information technology and other multimedia resources to increase medical knowledge and assist in patient care.
• Participate in the education of medical students and other health care professionals.
• Apply knowledge of study design and statistical methods to appraise the literature and conduct scientific research.
• Describe and understand the importance of participation in the national databases, such as the Society of Thoracic Surgery Cardiac Surgery database.
• Prepare for, and participate in, M&M.

Interpersonal and Communication Skills
Goal
The resident will learn to demonstrate interpersonal and communication skills that result in effective information exchange with patients, their families, and professional associates.

Objectives
• Demonstrate the ability to respectfully and effectively develop a therapeutic relationship with patients and their families.
• Work well with faculty, nurses, and other support staff.
• Respect diversity and cultural, ethnic, spiritual, emotional, and age specific differences in patients and other members of the health care team.
• Demonstrate effective leadership of a health care team.
• Write orders and progress reports in coherent and legible manner. Develop the habit of keeping the patients and their families informed and up to date regarding their clinical status.
• Communicate effectively with senior residents, attendings, and consultants.
• Restrain from conflicts with peers and support staff, and enhance team morale.
• Demonstrate proficiency in public speaking and exchange of ideas during conferences or rounds.

Professionalism
Goal
The resident will learn to demonstrate a commitment to carrying out professional responsibilities, adherence to organizational and ethical principles, and demonstrate sensitivity to diverse patient population.

Objectives
• Understand the importance of honesty in the doctor/patient relationship and other medical interactions.
• Respond and answer pages promptly.
• Demonstrate open and responsive attitude to feedback from other team members, patients, families, and peers.
• Complete medical records honestly and punctually.
• Treat patients, families, staff, and other personnel with respect and honestly.
• Dress appropriately and in a professional manner at all times.
• Show respect and understanding of the patient’s and their family’s emotional state and cultural differences.
• Practice being a good teacher to interns, medical students, and support staff.
• Participate in discussions and become an integral part of rounds and other teaching activities.

System Based Practice
Goal
The resident will demonstrate an awareness of, and responsiveness to, the larger context and system of healthcare and be able to call on system resources to provide care that is of optimal value to their patients.

Objectives
• Advocate and facilitate patient advancements through the healthcare system.
• Provide consultations for other services.
• Appropriately ask for consultations from other services.
• Be able to deliver patient care with an understanding of cost versus benefit considerations, medical economics, outcome analysis, quality improvement, and medical legal issues.
• Describe and execute commonly used standardized care plans, such as care of central lines, care of chest tubes, and bowel preparation procedure.
Rotation: UNIVERSITY I (General Surgery, Oncology)
Level: PGY 1
Supervising Attending: Sharmila Dissanaike, MD
Length: 1 month

Medical Knowledge
Goal
The resident will achieve detailed knowledge of the evaluation and management of General Surgical patients. The resident will learn to critically evaluate and demonstrate knowledge of how to access today’s scientific information.

Objectives
- Discuss the surgical anatomy of the abdominal cavity, the retroperitoneum, biliary system, breast and axilla, and the ilio-inguino-femoral region.
- Describe general knowledge about diseases involved in the gastrointestinal tract, breast, endocrine system, and head and neck (including anatomy and physiology).
- Develop knowledge and understanding to multidisciplinary approach to cancer.
- Discuss indications and complications of common endoscopic procedures such as EGD, colonoscopy, and bronchoscopy.
- Learn the principles of preoperative and postoperative management, including fluid and electrolyte management, pain control, wound care, drain management, and postoperative care. Expand the fund of knowledge from text books, journals, and electronic media.
- Discuss care and possible complication of bariatric surgery.
- Demonstrate understanding of potential surgical complications. Know the management of these complications.
- Demonstrate acceptance of the importance of life long learning as a way to maintain surgical knowledge.
- Develop the habit of regularly reading about each surgical problem he or she encounters.

Patient Care
Goal
The resident will provide care that is compassionate, appropriate, and effective for the treatment of the surgical patient. The resident will develop manual dexterity and be able to develop and execute patient care plans appropriate for their level of training.

Objectives
- Demonstrate the ability to gather essential and accurate patient information.
- Make informed decisions about diagnostic and therapeutic interventions based on level of training.
- Efficiently complete patient care activities.
- Learn to maintain close communication with senior residents and attendings.
- Maintain timely, legible, and thorough medical records.
- Provide safe patient care.
- Be reliable and honest.
- Effectively suture simple and complex lacerations.
- Effectively insert central lines, arterial lines, NG tubes, and Foley catheters.
- Properly perform GI endoscopy and bronchoscopy.
- Effectively perform minor surgical procedures such as inguinal hernias, gastroscopies, breast biopsies, and abscess drainage.

Practice Based Learning and Improvement
Goal
The resident will investigate and evaluate his or her own patient care practices, appraise and assimilate scientific evidence, and initiate improvement in patient care.

Objectives
- Analyze, critique, and review surgical literature as it applies to practice based medicine.
- Use information technology and other multi media resources to increase medical knowledge and assist in patient care.
- Participate in the education of medical students and other health care professionals.
- Apply knowledge of study design and statistical methods to appraise the literature.
- Prepare for, and participate in, M&M.

Interpersonal and Communication Skills
Goal
The resident will learn to demonstrate interpersonal and communication skills that result in effective information exchange with patients, their families, and professional associates.

Objectives
- Demonstrate the ability to respectfully and effectively develop a therapeutic relationship with patients and their families.
- Work well with faculty, nurses, and other support staff.
- Gather essential information from patients to be able to document patient encounters accurately and completely.
- Respect diversity and cultural, ethnic, spiritual, emotional, and age specific differences in patients and other members of the health care team.
- Communicate effectively with senior residents, attendings, and consultants.

Professionalism
Goal
The resident will learn to demonstrate a commitment to carrying out professional responsibilities, adherence to organizational and ethical principles, and demonstrate sensitivity to diverse patient population.

Objectives
- Understand the importance of honesty in the doctor/patient relationship and other medical interactions.
- Respond and answer pages promptly.
- Practice patient advocacy at all times.
- Complete medical records honestly and punctually.
- Treat patients, families, staff, and other personnel with respect and honestly.
- Dress appropriately and in a professional manner at all times.
- Accept responsibility and is accountable for his or her own actions.
- Show respect and understanding of the patient’s and their family’s emotional state and cultural differences.

System Based Practice
Goal
The resident will demonstrate an awareness of, and responsiveness to, the larger context and system of healthcare and be able to call on system resources to provide care that is of optimal value to their patients.

Objectives
- Advocate and facilitate patient advancements through the healthcare system.
• Understand, access, and utilize resource providers and systems to provide optimal care for their patients.
• Understand the importance of cost to benefit analysis.
• Understand the value of, and uses, practice guidelines. Work with other healthcare professionals to provide patient focused care within the larger system.
Rotation: UNIVERSITY I (General Surgery, Oncology)
Level: PGY 3
Supervising Attending: Sharmila Dissanaike, MD
Length: 1 month

Medical Knowledge
Goal
The resident will achieve detailed knowledge of the evaluation and management of General Surgical patients. The resident will learn to critically evaluate and demonstrate knowledge of how to access today’s scientific information.

Objectives
- Discuss the surgical anatomy of the abdominal cavity, the retroperitoneum, biliary system, breast and axilla, and the ilio-inguino-femoral region.
- Describe general knowledge about diseases involved in the gastrointestinal tract, breast, endocrine system, and head and neck (including anatomy and physiology).
- Develop knowledge and understanding to multidisciplinary approach to cancer.
- Develop knowledge in using surgical atlases or electronic media to learn approach to basic surgical procedures.
- Discuss indications and complications of common endoscopic procedures such as EGD, colonoscopy, and bronchoscopy.
- Discuss thorough operative indications and contraindications in complex general surgery problems.
- Discuss competently complex ICU issues in general surgery patients.
- Discuss in detail medical and surgical treatment of cancer in the general surgery patient population.
- Discuss comprehensively the indications, contraindications and complications of bariatric surgery.
- Demonstrate acceptance of the importance of life long learning as a way to maintain surgical knowledge.
- Develop the habit of regularly reading about each surgical problem he or she encounters.

Patient Care
Goal
The resident will provide care that is compassionate, appropriate, and effective for the treatment of the surgical patient. The resident will develop manual dexterity and be able to develop and execute patient care plans appropriate for their level of training.

Objectives
- Effectively insert central lines, arterial lines, NG tubes, and Foley catheters.
- Properly perform GI endoscopy and bronchoscopy.
- Effectively perform minor surgical procedures such as inguinal hernias, gastroscopies, breast biopsies, and abscess drainage.
- Effectively plan and execute work up for the most common general surgery problems.
- Initiate and interpret appropriate laboratory and radiologic studies of elective and emergency general surgery patients.
- Demonstrate advancement of procedural intraoperative skills including hernia repair, most common intestinal surgery (laparoscopic and open), and most common biliary surgery (laparoscopic and open).
- Demonstrate proficiency in work up pre, intra, and postoperative management of most common general surgery cancer.
• Demonstrate proficiency in the most common general surgery cancer procedures such as localized breast biopsies, mastectomies, soft tissue tumors, GI tumors, and head and neck cancer procedures.
• Demonstrate mastery of skin and wound closure, and management of complex open wounds (including open abdomen).
• Demonstrate efficient team management and decision making.
• Provide safe patient care.
• Be reliable and honest.
• Pay attention to subtle details and be able to recognize patients with a potential for rapid deterioration.

Practice Based Learning and Improvement
Goal
The resident will investigate and evaluate his or her own patient care practices, appraise and assimilate scientific evidence, and initiate improvement in patient care.

Objectives
• Analyze, critique, and review surgical literature as it applies to practice based medicine.
• Use information technology and other multimedia resources to increase medical knowledge and assist in patient care.
• Develop a personal program of self study and professional growth with guidance from the teaching staff and faculty.
• Apply knowledge of study design and statistical methods to appraise the literature and conduct scientific research.
• Analyze practice experience, perform practice based improvement activities and research.
• Demonstrate proficiency at teaching and being a role model for junior residents and medical students.
• Prepare for, and participate in, M&M.

Interpersonal and Communication Skills
Goal
The resident will learn to demonstrate interpersonal and communication skills that result in effective information exchange with patients, their families, and professional associates.

Objectives
• Demonstrate the ability to respectfully and effectively develop a therapeutic relationship with patients and their families.
• Respect diversity and cultural, ethnic, spiritual, emotional, and age specific differences in patients and other members of the health care team.
• Demonstrate effective leadership of a health care team.
• Communicate effectively with senior residents, attendings, and consultants.
• Restrain from conflicts with peers and support staff, and enhance team morale.
• Be able to plan, prepare, and carry out educational presentations.
• Demonstrate proficiency in public speaking and exchange of ideas during conferences or rounds.

Professionalism
Goal
The resident will learn to demonstrate a commitment to carrying out professional responsibilities, adherence to organizational and ethical principles, and demonstrate sensitivity to diverse patient population.

Objectives
• Understand the importance of honesty in the doctor/patient relationship and other medical interactions.
• Respond and answer pages promptly.
• Practice patient advocacy at all times.
• Complete medical records honestly and punctually.
• Treat patients, families, staff, and other personnel with respect and honestly.
• Dress appropriately and in a professional manner at all times.
• Practice being a good teacher to interns, medical students, and support staff.
• Participate in appropriate sign outs at the beginning and ending of each shift.
• Be familiar with ethical issues related to daily tasks, such as informed consent, end of life issues, and patient rights.

**System Based Practice**

**Goal**
The resident will demonstrate an awareness of, and responsiveness to, the larger context and system of healthcare and be able to call on system resources to provide care that is of optimal value to their patients.

**Objectives**
• Advocate and facilitate patient advancements through the healthcare system.
• Understand different surgical practice models and delivery systems, and how to best utilize them to care for their patients.
• Understand the value of, and uses, practice guidelines. Work with other healthcare professionals to provide patient focused care within the larger system.
• Provide consultations for other services.
• Appropriately ask for consultations from other services.
Rotation: UNIVERSITY I (General Surgery, Oncology)  
Level: PGY 5  
Supervising Attending: Sharmila Dissanaike, MD  
Length: 1 month  

Medical Knowledge

Goal
The resident will achieve detailed knowledge of the evaluation and management of surgical patients. The resident will learn to critically evaluate and demonstrate knowledge of how to access today's scientific information.

Objectives
- Discuss operative indications and contraindications in complex general surgery problems.
- Demonstrate proficiency in emergency room diagnosis and treatment of complex surgical diseases.
- Discuss in detail medical and surgical treatment of cancer in the general surgery patient population.
- Demonstrate mastery of the evaluation and management of preoperative and postoperative general surgery patients (elective and emergency).
- Discuss anatomy and physiology of complex general surgery problems, such as sepsis, shock, and complex wound care issues.
- Discuss evaluation and management of patients with cancer including breast, soft tissue, pancreatic, hepatic, endocrine, GI malignancies, including medical and surgical treatment.
- Discuss comprehensively indications, contraindications, and complications of bariatric surgery and advanced laparoscopic procedures.
- Demonstrate progression and understanding of medical administration practices.
- Is able to engage in mature and knowledgeable discussions on controversial issues in surgery.
- Demonstrate acceptance of the importance of life long learning as a way to maintain surgical knowledge.
- Develop the habit of regularly reading about each surgical problem he or she encounters.

Patient Care

Goal
The resident will provide care that is compassionate, appropriate, and effective for the treatment of the surgical patient. The resident will develop manual dexterity and be able to develop and execute patient care plans appropriate for their level of training.

Objectives
- Demonstrate independence in the evaluation and management of all aspects of patient care.
- Be able to independently perform straightforward surgical procedures.
- Develop technical skills consistent with working independently.
- Make and execute patient management plans and decisions for complicated cases with minimal attending staff involvement.
- Competently address ethical issues such as end of life care, refusal of treatment, and complicated consent form.
- Make sound medical, ethical, and legal judgment appropriate for an attending surgeon.
- Collaborate effectively with colleagues and other health care providers.
- Demonstrate good judgment, safety, and effective technical skills in the operating room when performing major operations under supervision.
- Demonstrate the commitment to scholarly pursuit through the conduct and evaluation of research.
- Manage overall ward care of patients, good team management, and demonstrate progressive supervision of junior residents.
• Competently complete patient care plans and conduct effective consultations for other services.
• Serve as primary and teaching surgeon with faculty supervision for junior residents.

Practice Based Learning and Improvement

Goal
The resident will investigate and evaluate his or her own patient care practices, appraise and assimilate scientific evidence, and initiate improvement in patient care.

Objectives
• Analyze, critique, and review surgical literature as it applies to practice based medicine.
• Develop a personal program of self study and professional growth with guidance from the teaching staff and faculty.
• Apply knowledge of study design and statistical methods to appraise the literature and conduct scientific research.
• Analyze practice experience, perform practice based improvement activities and research.
• Teach and be a role model for interns and medical students in regards to life long learning.
• Participate in the teaching and organization of the educational conferences and activities of the Department of Surgery.
• Demonstrate evidence of clinical perspective and medical knowledge by confident case presentations at conferences.
• Prepare for, and participate in, M&M.

Interpersonal and Communication Skills

Goal
The resident will learn to demonstrate interpersonal and communication skills that result in effective information exchange with patients, their families, and professional associates.

Objectives
• Respect diversity and cultural, ethnic, spiritual, emotional, and age specific differences in patients and other members of the health care team.
• Provide a therapeutic relationship with patients using effective listening skills and candid feedback.
• Restrain from conflicts with peers and support staff.
• Demonstrate proficiency in public speaking and exchange of ideas during conferences or rounds.
• Be highly proficient in interacting with patients, families, nurses, and other health care professionals to achieve the health related goals of the patient.

Professionalism

Goal
The resident will learn to demonstrate a commitment to carrying out professional responsibilities, adherence to organizational and ethical principles, and demonstrate sensitivity to diverse patient population.

Objectives
• Understand the importance of honesty in the doctor/patient relationship and other medical interactions.
• Respond and answer pages promptly.
• Demonstrate open and responsive attitude to feedback from other team members, patients, families, and peers.
• Complete medical records honestly and punctually.
• Dress appropriately and in a professional manner at all times.
• Participate in discussions and become an integral part of rounds and other teaching activities.
- Participate in appropriate sign outs at the beginning and ending of each shift.
- Become familiar with the American College of Surgeons and the American Medical Association Code of Professional Conduct.

System Based Practice

Goal
The resident will demonstrate an awareness of, and responsiveness to, the larger context and system of healthcare and be able to call on system resources to provide care that is of optimal value to their patients.

Objectives
- Understand different surgical practice models and delivery systems, and how to best utilize them to care for their patients.
- Be able to deliver patient care with an understanding of cost versus benefit considerations, medical economics, outcome analysis, quality improvement, and medical legal issues.
- Have a comprehensive understanding and use of practice guidelines and clinical pathways.
- Show deep understanding of micro and macro systems in healthcare and their impact on patient care and the role of the surgeon in the health care team.
- Provide consultations for other services.
- Appropriately ask for consultations from other services.
Rotation: UNIVERSITY II (Trauma & General Surgery)
Level: PGY 1
Supervising Attending: John Griswold, MD
Length: 1 month

Medical Knowledge
Goal
The resident will achieve detailed knowledge of the evaluation and management of injured surgical patients. The resident will learn to critically evaluate and demonstrate knowledge of how to access today’s scientific information.

Objectives
• Discuss anatomy, physiology, pharmacology, and pathology as it relates in inpatient and outpatient management of common general surgery problems.
• Discuss and perform pre and postoperative management of general surgery patients.
• Discuss the evaluation and management of trauma and critically ill surgery patients.
• Discuss the pathophysiology and general management of complex wound problems.
• Prepare and successfully pass ATLS, ACLS, and PALS courses.
• Discuss the physiology and management of trauma, sepsis, and shock.
• Demonstrate proficiency in the anatomy, physiology, and embryology of organ system as it pertains to surgical diseases.
• Demonstrate proficiency in the pathology and diagnosis of surgical diseases and understand the fundamentals of evaluating surgical risks in both elective and emergency settings.
• Learn the basic principles of managing these cases.
• Learn the principles of preoperative and postoperative management, including fluid and electrolyte management, pain control, wound care, drain management, and postoperative care.
• Expand the fund of knowledge from text books, journals, and electronic media.
• Develop the habit of regularly reading about each surgical problem he or she encounters.

Patient Care
Goal
The resident will provide care that is compassionate, appropriate, and effective for the treatment of the surgical patient. The resident will develop manual dexterity and be able to develop and execute patient care plans appropriate for their level of training.

Objectives
• Demonstrate proficiency in work up and management of trauma patients and acutely ill general surgery patients.
• Demonstrate the appropriate laboratory and radiologic evaluation of emergent patients and trauma patients.
• Execute a thorough history and physical examination of general surgery and trauma patients.
• Demonstrate proficiency in placing central lines, arterial lines, NG tubes, Foley catheters, and wound closure.
• Conduct rudimentary intraoperative procedures, such as tracheostomy, uncomplicated inguinal hernias, subcutaneous tumors, drainage of abscesses.
• Show proficiency and carry out limited patient management decisions in consultations with upper level residents and attendings.
• Demonstrate the ability to gather essential and accurate patient information.
• Efficiently complete patient care activities.
• Learn to maintain close communication with senior residents and attendings.
• Provide safe patient care.
• Be reliable and honest.
Practice Based Learning and Improvement

Goal
The resident will investigate and evaluate his or her own patient care practices, appraise and assimilate scientific evidence, and initiate improvement in patient care.

Objectives
- Analyze, critique, and review surgical literature as it applies to practice based medicine.
- Use information technology and other multi media resources to increase medical knowledge and assist in patient care.
- Participate in the education of medical students and other health care professionals.
- Apply knowledge of study design and statistical methods to appraise the literature.
- Prepare for, and participate in, M&M.

Interpersonal and Communication Skills

Goal
The resident will learn to demonstrate interpersonal and communication skills that result in effective information exchange with patients, their families, and professional associates.

Objectives
- Demonstrate the ability to respectfully and effectively develop a therapeutic relationship with patients and their families.
- Work well with faculty, nurses, and other support staff.
- Gather essential information from patients to be able to document patient encounters accurately and completely.
- Respect diversity and cultural, ethnic, spiritual, emotional, and age specific differences in patients and other members of the health care team.
- Write orders and progress reports in coherent and legible manner. Develop the habit of keeping the patients and their families informed and up to date regarding their clinical status.
- Communicate effectively with senior residents, attendings, and consultants.

Professionalism

Goal
The resident will learn to demonstrate a commitment to carrying out professional responsibilities, adherence to organizational and ethical principles, and demonstrate sensitivity to diverse patient population.

Objectives
- Understand the importance of honesty in the doctor/patient relationship and other medical interactions.
- Respond and answer pages promptly.
- Demonstrate open and responsive attitude to feedback from other team members, patients, families, and peers.
- Practice patient advocacy at all times.
- Complete medical records honestly and punctually.
- Treat patients, families, staff, and other personnel with respect and honestly.
- Dress appropriately and in a professional manner at all times.

System Based Practice

Goal
The resident will demonstrate an awareness of, and responsiveness to, the larger context and system of healthcare and be able to call on system resources to provide care that is of optimal value to their patients.
Objectives

- Practice quality, cost effective healthcare.
- Advocate and facilitate patient advancements through the healthcare system.
- Understand, access, and utilize resource providers and systems to provide optimal care for their patients.
- Understand the value of, and uses, practice guidelines. Work with other healthcare professionals to provide patient focused care within the larger system.
Rotation: UNIVERSITY II (Trauma & General Surgery)
Level: PGY 2 and PGY 3
Supervising Attending: John Griswold, MD
Length: 1 month

Medical Knowledge

Goal
The resident will achieve detailed knowledge of the evaluation and management of surgical patients. The resident will learn to critically evaluate and demonstrate knowledge of how to access today’s scientific information.

Objectives
- Discuss evaluation, work up, and pathophysiology of trauma patients.
- Develop thorough knowledge of gastrointestinal emergencies.
- Discuss the surgical anatomy of the abdominal cavity, the retroperitoneum, biliary system, breast and axilla, and the ilio-inguino-femoral region.
- Describe general knowledge about diseases involved in the gastrointestinal tract, breast, endocrine system, and head and neck (including anatomy and physiology).
- Develop knowledge and understanding to multidisciplinary approach to trauma.
- Discuss indications and complications of common endoscopic procedures such as EGD, colonoscopy, and bronchoscopy.
- Demonstrate proficiency in emergency room diagnosis and treatment of complex surgical diseases.
- Discuss competently complex ICU issues in general surgery and trauma patients.
- Discuss in detail medical and surgical treatment of cancer in the general surgery patient population.
- Discuss thoroughly anatomy, physiology, and medical management of pre and postoperative care of general surgery patients.
- Demonstrate acceptance of the importance of life long learning as a way to maintain surgical knowledge.
- Develop the habit of regularly reading about each surgical problem he or she encounters.

Patient Care

Goal
The resident will provide care that is compassionate, appropriate, and effective for the treatment of the surgical patient. The resident will develop manual dexterity and be able to develop and execute patient care plans appropriate for their level of training.

Objectives
- Demonstrate efficiency in organization in managing complex multi trauma (run a trauma resuscitation).
- Demonstrate comprehensive skills in interpreting radiographic and laboratory data on general surgery patients and trauma patients.
- Demonstrate skills in initial management of any catastrophic surgical illnesses and trauma.
- Demonstrate mastery of skin and wound closure, and management of complex open wounds (including open abdomen).
- Effectively execute resuscitation of trauma and septic patients including ventilatory management, fluid and electrolyte resuscitation, and TPN.
- Perform pre and postoperative care of patient with comprehensive understanding of basic science as it applies to surgical diseases.
- Obtain a detailed history and perform a complete and thorough physical examination with a high degree of accuracy.
- Pay attention to subtle details and be able to recognize patients with a potential for rapid deterioration.
- Demonstrate advancement of procedural intraoperative skills including trauma laparotomy, most common intestinal surgery (laparoscopic and open), and most common biliary surgery (laparoscopic and open).
- Demonstrate proficiency in the most common general surgery cancer procedures such as localized breast biopsies, mastectomies, soft tissue tumors, GI tumors, and head and neck cancer procedures.
- Demonstrate competent performance in any minor general surgery procedures.
- Learn to maintain close communication with senior residents and attendings.
- Maintain timely, legible, and thorough medical records.
- Provide safe patient care.
- Be reliable and honest.

**Practice Based Learning and Improvement**

**Goal**
The resident will investigate and evaluate his or her own patient care practices, appraise and assimilate scientific evidence, and initiate improvement in patient care.

**Objectives**
- Analyze, critique, and review surgical literature as it applies to practice based medicine.
- Use information technology and other multimedia resources to increase medical knowledge and assist in patient care.
- Develop a personal program of self study and professional growth with guidance from the teaching staff and faculty.
- Participate in the education of medical students and other health care professionals.
- Apply knowledge of study design and statistical methods to appraise the literature and conduct scientific research.
- Prepare for, and participate in, M&M.

**Interpersonal and Communication Skills**

**Goal**
The resident will learn to demonstrate interpersonal and communication skills that result in effective information exchange with patients, their families, and professional associates.

**Objectives**
- Demonstrate the ability to respectfully and effectively develop a therapeutic relationship with patients and their families.
- Work well with faculty, nurses, and other support staff.
- Respect diversity and cultural, ethnic, spiritual, emotional, and age specific differences in patients and other members of the health care team.
- Demonstrate effective leadership of a health care team.
- Communicate effectively with senior residents, attendings, and consultants.
- Restrain from conflicts with peers and support staff, and enhance team morale.
- Demonstrate proficiency in public speaking and exchange of ideas during conferences or rounds.

**Professionalism**

**Goal**
The resident will learn to demonstrate a commitment to carrying out professional responsibilities, adherence to organizational and ethical principles, and demonstrate sensitivity to diverse patient population.
Objectives

- Understand the importance of honesty in the doctor/patient relationship and other medical interactions.
- Respond and answer pages promptly.
- Demonstrate open and responsive attitude to feedback from other team members, patients, families, and peers.
- Practice patient advocacy at all times.
- Complete medical records honestly and punctually.
- Treat patients, families, staff, and other personnel with respect and honestly.
- Dress appropriately and in a professional manner at all times.
- Be familiar with ethical issues related to daily tasks, such as informed consent, end of life issues, and patient rights.

System Based Practice

Goal
The resident will demonstrate an awareness of, and responsiveness to, the larger context and system of healthcare and be able to call on system resources to provide care that is of optimal value to their patients.

Objectives

- Practice quality, cost effective healthcare.
- Advocate and facilitate patient advancements through the healthcare system.
- Understand different surgical practice models and delivery systems, and how to best utilize them to care for their patients.
- Understand the value of, and uses, practice guidelines. Work with other healthcare professionals to provide patient focused care within the larger system.
- Be able to deliver patient care with an understanding of cost versus benefit considerations, medical economics, outcome analysis, quality improvement, and medical legal issues.
Rotation: UNIVERSITY II (Trauma & General Surgery)
Level: PGY 4
Supervising Attending: John Griswold, MD
Length: 1 month

Medical Knowledge
Goal
The resident will achieve detailed knowledge of the evaluation and management of trauma and general surgical patients. The resident will learn to critically evaluate and demonstrate knowledge of how to access today’s scientific information.

Objectives
- Describe thoroughly operative indications, contraindications, and complications of all general surgery procedures.
- Demonstrate thorough understanding of the basic anatomy and physiology as it relates to all general surgery patient care management.
- Describe and understand the principles and interpretation of all commonly used diagnostic procedures for general and trauma patients.
- Discuss the initial management of critically ill and multi trauma general surgery patients.
- Demonstrate progression and understanding of medical administration practices.
- Demonstrate mastery of the evaluation of management preoperatively, intraoperatively, and postoperatively on simple and complex general surgery and trauma conditions.
- Demonstrate acceptance of the importance of life long learning as a way to maintain surgical knowledge.
- Develop the habit of regularly reading about each surgical problem he or she encounters.
- Develop the habit of regularly reading about each surgical problem he or she encounters.

Patient Care
Goal
The resident will provide care that is compassionate, appropriate, and effective for the treatment of the surgical patient. The resident will develop manual dexterity and be able to develop and execute patient care plans appropriate for their level of training.

Objectives
- Demonstrate efficiency in organization in managing complex multi trauma (run a trauma resuscitation).
- Demonstrate comprehensive skills in interpreting radiographic and laboratory data on general surgery patients and trauma patients, including ultrasound (FAST).
- Demonstrate skills in initial management of any catastrophic surgical illnesses and trauma, including ER thoracotomy, emergency airway management, and chest tubes.
- Demonstrate efficient team management and decision making.
- Demonstrate competence in caring for the most critically ill surgery patients in the ICU with appropriate oversight.
- Learn to maintain close communication with senior residents and attendings.
- Provide safe patient care.
- Be reliable and honest.
- Demonstrate advancement of procedural intraoperative skills including trauma laparotomy, most common intestinal surgery (laparoscopic and open), and most common biliary surgery (laparoscopic and open).
- Demonstrate competent performance in any minor general surgery procedures.
• Demonstrate competence in assisting and partially performing more advanced general surgery procedures.
• Demonstrate improved proficiency in emergency room diagnosis, evaluation, and triage.

Practice Based Learning and Improvement
Goal
The resident will investigate and evaluate his or her own patient care practices, appraise and assimilate scientific evidence, and initiate improvement in patient care.

Objectives
• Analyze, critique, and review surgical literature as it applies to practice based medicine.
• Use information technology and other multimedia resources to increase medical knowledge and assist in patient care.
• Develop a personal program of self-study and professional growth with guidance from the teaching staff and faculty.
• Participate in the education of medical students and other healthcare professionals.
• Analyze practice experience, perform practice-based improvement activities and research.
• Participate in the teaching and organization of the educational conferences and activities of the Department of Surgery.
• Prepare for, and participate in, M&M.

Interpersonal and Communication Skills
Goal
The resident will learn to demonstrate interpersonal and communication skills that result in effective information exchange with patients, their families, and professional associates.

Objectives
• Demonstrate the ability to respectfully and effectively develop a therapeutic relationship with patients and their families.
• Work well with faculty, nurses, and other support staff.
• Respect diversity and cultural, ethnic, spiritual, emotional, and age-specific differences in patients and other members of the healthcare team.
• Communicate effectively with senior residents, attendings, junior residents, and ancillary staff.
• Restrain from conflicts with peers and support staff, and enhance team morale.
• Demonstrate the ability to conduct in-depth, precise scientific discussions at conferences and other educational activities.

Professionalism
Goal
The resident will learn to demonstrate a commitment to carrying out professional responsibilities, adherence to organizational and ethical principles, and demonstrate sensitivity to diverse patient population.

Objectives
• Understand the importance of honesty in the doctor/patient relationship and other medical interactions.
• Respond and answer pages promptly.
• Practice patient advocacy at all times.
• Complete medical records honestly and punctually.
• Treat patients, families, staff, and other personnel with respect and honestly.
• Dress appropriately and in a professional manner at all times.
• Be familiar with ethical issues related to daily tasks, such as informed consent, end of life issues, and patient rights.

System Based Practice

Goal
The resident will demonstrate an awareness of, and responsiveness to, the larger context and system of healthcare and be able to call on system resources to provide care that is of optimal value to their patients.

Objectives
• Understand different surgical practice models and delivery systems, and how to best utilize them to care for their patients.
• Understand the value of, and uses, practice guidelines. Work with other healthcare professionals to provide patient focused care within the larger system.
• Provide consultations for other services.
• Appropriately ask for consultations from other services.
• Show understanding of micro and macro systems in healthcare and their impact on patient care and the role of the surgeon in the health care team.
Rotation: UNIVERSITY II (Trauma & General Surgery)
Level: PGY 5
Supervising Attending: John Griswold, MD
Length: 1 month

Medical Knowledge
Goal
The resident will achieve detailed knowledge of the evaluation and management of surgical patients. The resident will learn to critically evaluate and demonstrate knowledge of how to access today’s scientific information.

Objectives
- Describe thoroughly operative indications, contraindications, and complications of all general surgery procedures.
- Demonstrate thorough understanding of the basic anatomy and physiology as it relates to all general surgery patient care management.
- Describe and understand the principles and interpretation of all commonly used diagnostic procedures for general and trauma patients.
- Demonstrate progression and understanding of medical administration practices.
- Demonstrate acceptance of the importance of life long learning as a way to maintain surgical knowledge.
- Develop the habit of regularly reading about each surgical problem he or she encounters.
- Apply investigatory, analytical, and evidence based approaches to clinical decision making.
- Develop well thought out evidence based treatment plans for complex patient care issues.
- Is able to engage in mature and knowledgeable discussions on controversial issues in surgery.

Patient Care
Goal
The resident will provide care that is compassionate, appropriate, and effective for the treatment of the surgical patient. The resident will develop manual dexterity and be able to develop and execute patient care plans appropriate for their level of training.

Objectives
- Demonstrate independence in the evaluation and management of all aspects of patient care.
- Make and execute patient management plans and decisions for complicated cases with minimal attending staff involvement.
- Demonstrate good judgment, safety, and effective technical skills in the operating room.
- Make sound medical, ethical, and legal judgment appropriate for an attending surgeon.
- Competently address ethical issues such as end of life care, refusal of treatment, and complicated consent form.
- Demonstrate proficiency in major trauma diagnosis, evaluation, and triage.
- Demonstrate independent operative ability for common general surgery cases.
- Perform difficult cases under the appropriate supervision of faculty.
- Efficiently manage and organize the residency team and demonstrate progressive supervisory role for junior residents.
- Demonstrate advanced development and competency of critical care skills.

Practice Based Learning and Improvement
Goal
The resident will investigate and evaluate his or her own patient care practices, appraise and assimilate scientific evidence, and initiate improvement in patient care.

Objectives
• Demonstrate leadership and management skills by coordinating and running a resident service with some independency.
• Have a full understanding of one’s own clinical limitations and limitations of surgery in general.
• Have a constant reassessment of personal learning outcomes.
• Have skills in managing and interpreting data.
• Facilitate the learning of other residents, students, colleagues, and other health professionals in the principles and practices of surgery by teaching and sharing knowledge.
• Analyze, critique, and review surgical literature as it applies to practice based medicine.
• Prepare for, and participate in, M&M.

Interpersonal and Communication Skills
Goal
The resident will learn to demonstrate interpersonal and communication skills that result in effective information exchange with patients, their families, and professional associates.

Objectives
• Develop in-depth relationship with patient and their family keeping them informed about the status of the patient.
• Demonstrate the ability to conduct in-depth, precise scientific discussions at conferences and other educational activities.
• Demonstrate advanced listening skills, leadership, and teamwork skills.
• Have knowledge of system factors that can impede effective communication.
• Demonstrate the ability to negotiate and resolve conflicts within the team or between services.
• Be highly proficient in interacting with patients, families, nurses, and other health care professionals to achieve the health related goals of the patient.

Professionalism
Goal
The resident will learn to demonstrate a commitment to carrying out professional responsibilities, adherence to organizational and ethical principles, and demonstrate sensitivity to diverse patient population.

Objectives
• Complete operative case logs and medical reports in a timely manner.
• Demonstrate professional leadership skills at conferences with in-depth medical knowledge and clinical perspective.
• Become familiar with the American College of Surgeons and the American Medical Association Code of Professional Conduct.
• Develop personal self assessment and regulation.

System Based Practice
Goal
The resident will demonstrate an awareness of, and responsiveness to, the larger context and system of healthcare and be able to call on system resources to provide care that is of optimal value to their patients.

Objectives
• Understand different surgical practice models and delivery systems and how best to utilize them for individual patients.
• Show deep understanding of micro and macro systems in healthcare and their impact on patient care and the role of the surgeon in the health care team.
• Understand health care financing, social influences, and individual practitioners’ role.
• Provide consultations for other services.
• Appropriately ask for consultations from other services.
• Understand the value of, and uses, practice guidelines. Work with other healthcare professionals to provide patient focused care within the larger system.
Rotation: **CRITICAL CARE**  
Level: **PGY 2**  
Supervising Attending: Ari Halldorsson, MD  
Length: 1 month  

**Medical Knowledge**  
**Goal**  
The resident will achieve detailed knowledge of the evaluation and management of surgical patients in the SICU. The resident will learn to critically evaluate and demonstrate knowledge of how to access today’s scientific information.

**Objectives**
- Discuss evaluation and management of critically ill surgery patients.
- Discuss pathophysiology of sepsis, shock, and multiple organ system failure.
- Demonstrate knowledge of nutritional and metabolic needs of patients in the ICU.
- Discuss simple and complex ventilatory management.
- Develop thorough knowledge of normal and abnormal cardiovascular physiology.
- Discuss acid-base disorders.
- Discuss the principles of preoperative and postoperative management, including fluid and electrolyte management, pain control, wound care, drain management, and postoperative care.
- Demonstrate acceptance of the importance of life long learning as a way to maintain surgical knowledge.
- Develop the habit of regularly reading about each surgical problem he or she encounters.

**Patient Care**  
**Goal**  
The resident will provide care that is compassionate, appropriate, and effective for the treatment of the SICU patient. The resident will develop manual dexterity and be able to develop and execute patient care plans appropriate for their level of training.

**Objectives**
- Demonstrate proficiency in evaluating and managing patients in the ICU setting.
- Demonstrate proficiency in performing common bedside procedures in the ICU, such as vascular access, arterial lines, chest tubes, bronchoscopy, and emergency airway management.
- Demonstrate proficiency in placing and interpreting results from Swan-Ganz catheter measurements.
- Demonstrate proficiency in performing operations commonly done on ICU patients, such as tracheostomy, PEG, and complex wound management.
- Demonstrate proficiency in interpreting commonly performed laboratory and imaging studies in this patient population.
- Learn to maintain close communication with senior residents and attendings.
- Maintain timely, legible, and thorough medical records.
- Provide safe patient care.
- Be reliable and honest.

**Practice Based Learning and Improvement**  
**Goal**  
The resident will investigate and evaluate his or her own patient care practices, appraise and assimilate scientific evidence, and initiate improvement in patient care.

**Objectives**
- Analyze, critique, and review surgical literature as it applies to practice based medicine.
• Use information technology and other multimedia resources to increase medical knowledge and assist in patient care.
• Develop a personal program of self-study and professional growth with guidance from the teaching staff and faculty.
• Analyze practice experience, perform practice-based improvement activities and research.
• Prepare for, and participate in, M&M.

Interpersonal and Communication Skills
Goal
The resident will learn to demonstrate interpersonal and communication skills that result in effective information exchange with patients, their families, and professional associates.

Objectives
• Demonstrate the ability to respectfully and effectively develop a therapeutic relationship with patients and their families.
• Work well with faculty, nurses, and other support staff.
• Respect diversity and cultural, ethnic, spiritual, emotional, and age-specific differences in patients and other members of the health care team.
• Write orders and progress reports in a coherent and legible manner. Develop the habit of keeping the patients and their families informed and up to date regarding their clinical status.

Professionalism
Goal
The resident will learn to demonstrate a commitment to carrying out professional responsibilities, adherence to organizational and ethical principles, and demonstrate sensitivity to diverse patient population.

Objectives
• Understand the importance of honesty in the doctor/patient relationship and other medical interactions.
• Respond and answer pages promptly.
• Practice patient advocacy at all times.
• Complete medical records honestly and punctually.
• Dress appropriately and in a professional manner at all times.
• Show respect and understanding of the patient's and their family's emotional state and cultural differences.
• Practice being a good teacher to interns, medical students, and support staff.
• Participate in discussions and become an integral part of rounds and other teaching activities.

System Based Practice
Goal
The resident will demonstrate an awareness of, and responsiveness to, the larger context and system of healthcare and be able to call on system resources to provide care that is of optimal value to their patients.

Objectives
• Advocate and facilitate patient advancements through the healthcare system.
• Understand different surgical practice models and delivery systems, and how to best utilize them to care for their patients.
• Understand, access, and utilize resource providers and systems to provide optimal care for their patients.
• Understand the value of, and uses, practice guidelines. Work with other healthcare professionals to provide patient focused care within the larger system.
Rotation: **VASCULAR SURGERY**
Level: PGY 3
Supervising Attending: Dixon Santana, MD
Length: 1 month

**Medical Knowledge**

**Goal**
The resident will achieve detailed knowledge of the evaluation and management of vascular patients. The resident will learn to critically evaluate and demonstrate knowledge of how to access today’s scientific information.

**Objectives**
- Discuss anatomy and physiology of the peripheral vascular system.
- Describe the natural history of atherosclerotic occlusive disease, aneurysm, cerebral vascular occlusive disease.
- Demonstrate knowledge of vascular graft material, biologic and artificial.
- Demonstrate basic understanding of open and endovascular procedures.
- Demonstrate acceptance of the importance of life long learning as a way to maintain surgical knowledge.
- Develop the habit of regularly reading about each surgical problem he or she encounters.

**Patient Care**

**Goal**
The resident will provide care that is compassionate, appropriate, and effective for the treatment of the surgical patient. The resident will develop manual dexterity and be able to develop and execute patient care plans appropriate for their level of training.

**Objectives**
- Conduct a thorough vascular history and physical exam.
- Develop and execute management plan for acute and chronic perivascular diseases.
- Able to recognize vascular emergencies.
- Demonstrate basic knowledge of invasive and noninvasive work up of patients with peripheral vascular disease.
- Demonstrate the ability to gather essential and accurate patient information.
- Make informed decisions about diagnostic and therapeutic interventions based on level of training.
- Efficiently complete patient care activities.
- Learn to maintain close communication with senior residents and attendings.
- Maintain timely, legible, and thorough medical records.
- Provide safe patient care.
- Be reliable and honest.

**Practice Based Learning and Improvement**

**Goal**
The resident will investigate and evaluate his or her own patient care practices, appraise and assimilate scientific evidence, and initiate improvement in patient care.

**Objectives**
- Analyze, critique, and review surgical literature as it applies to practice based medicine.
- Use information technology and other multi media resources to increase medical knowledge and assist in patient care.
- Develop a personal program of self study and professional growth with guidance from the teaching staff and faculty.
• Participate in the education of medical students and other health care professionals.
• Prepare for, and participate in, M&M.

Interpersonal and Communication Skills
Goal
The resident will learn to demonstrate interpersonal and communication skills that result in effective information exchange with patients, their families, and professional associates.

Objectives
• Demonstrate the ability to respectfully and effectively develop a therapeutic relationship with patients and their families.
• Work well with faculty, nurses, and other support staff.
• Gather essential information from patients to be able to document patient encounters accurately and completely.
• Respect diversity and cultural, ethnic, spiritual, emotional, and age specific differences in patients and other members of the health care team.

Professionalism
Goal
The resident will learn to demonstrate a commitment to carrying out professional responsibilities, adherence to organizational and ethical principles, and demonstrate sensitivity to diverse patient population.

Objectives
• Understand the importance of honesty in the doctor/patient relationship and other medical interactions.
• Respond and answer pages promptly.
• Practice patient advocacy at all times.
• Complete medical records honestly and punctually.
• Treat patients, families, staff, and other personnel with respect and honestly.
• Dress appropriately and in a professional manner at all times.

System Based Practice
Goal
The resident will demonstrate an awareness of, and responsiveness to, the larger context and system of healthcare and be able to call on system resources to provide care that is of optimal value to their patients.

Objectives
• Practice quality, cost effective healthcare.
• Advocate and facilitate patient advancements through the healthcare system.
• Understand different surgical practice models and delivery systems, and how to best utilize them to care for their patients.
• Understand the value of, and uses, practice guidelines.
Rotation: VASCULAR SURGERY  
Level: PGY 4  
Supervising Attending: Dixon Santana, MD  
Length: 1 month  

Medical Knowledge  
Goal  
The resident will achieve detailed knowledge of the evaluation and management of vascular patients. The resident will learn to critically evaluate and demonstrate knowledge of how to access today’s scientific information.

Objectives  
- Discuss anatomy and physiology of the peripheral vascular system.  
- Describe the natural history of atherosclerotic occlusive disease, aneurysm, and cerebral vascular disease.  
- Demonstrate knowledge of vascular graft material, biologic and artificial.  
- Demonstrate basic understanding of open and endovascular procedures.  
- Discuss comprehensively anatomy and physiology of peripheral vascular system.  
- Discuss comprehensively peripheral vascular diseases and their management, including complications.  
- Demonstrate knowledge of patency data in peripheral vascular bypass surgery and long term outcome.  
- Discuss the indication, contraindication, and patient selection for major vascular procedures, both open and endovascular.  
- Describe the specific indications for endovascular procedures versus open procedures in peripheral vascular patients.  
- Demonstrate acceptance of the importance of life long learning as a way to maintain surgical knowledge.  
- Develop the habit of regularly reading about each surgical problem he or she encounters.

Patient Care  
Goal  
The resident will provide care that is compassionate, appropriate, and effective for the treatment of the vascular patient. The resident will develop manual dexterity and be able to develop and execute patient care plans appropriate for their level of training.

Objectives  
- Conduct a thorough vascular history and physical exam.  
- Develop and execute management plan for acute and chronic perivascular diseases.  
- Able to recognize vascular emergencies.  
- Demonstrate basic knowledge of invasive and noninvasive work up of patients with perivascular disease.  
- Demonstrate competence in taking care of critically ill vascular patients.  
- Demonstrate competence in evaluation, preoperative preparation, intraoperative care, and postoperative care of perivascular patients.  
- Demonstrate technical skills in performing complicated and uncomplicated open vascular procedures consistent with level of training.  
- Perform diagnostic and simple therapeutic endovascular procedures with proficiency.  
- Demonstrate leadership and management practices consistent with overseeing the care of critically ill vascular patients, including in the SICU.  
- Learn to maintain close communication with senior residents and attendings.  
- Provide safe patient care.  
- Be reliable and honest.
Practice Based Learning and Improvement
Goal
The resident will investigate and evaluate his or her own patient care practices, appraise and assimilate scientific evidence, and initiate improvement in patient care.

Objectives

- Analyze, critique, and review surgical literature as it applies to practice based medicine.
- Use information technology and other multi media resources to increase medical knowledge and assist in patient care.
- Develop a personal program of self study and professional growth with guidance from the teaching staff and faculty.
- Participate in the education of medical students and other health care professionals.
- Apply knowledge of study design and statistical methods to appraise the literature and conduct scientific research.
- Prepare for, and participate in, M&M.

Interpersonal and Communication Skills
Goal
The resident will learn to demonstrate interpersonal and communication skills that result in effective information exchange with patients, their families, and professional associates.

Objectives

- Demonstrate the ability to respectfully and effectively develop a therapeutic relationship with patients and their families.
- Respect diversity and cultural, ethnic, spiritual, emotional, and age specific differences in patients and other members of the health care team.
- Demonstrate effective leadership of a health care team.
- Write orders and progress reports in coherent and legible manner. Develop the habit of keeping the patients and their families informed and up to date regarding their clinical status.
- Communicate effectively with senior residents, attendings, and consultants.

Professionalism
Goal
The resident will learn to demonstrate a commitment to carrying out professional responsibilities, adherence to organizational and ethical principles, and demonstrate sensitivity to diverse patient population.

Objectives

- Understand the importance of honesty in the doctor/patient relationship and other medical interactions.
- Respond and answer pages promptly.
- Demonstrate open and responsive attitude to feedback from other team members, patients, families, and peers.
- Practice patient advocacy at all times.
- Complete medical records honestly and punctually.
- Treat patients, families, staff, and other personnel with respect and honestly.
- Dress appropriately and in a professional manner at all times.

System Based Practice
Goal
The resident will demonstrate an awareness of, and responsiveness to, the larger context and system of healthcare and be able to call on system resources to provide care that is of optimal value to their patients.

Objectives

- Practice quality, cost effective healthcare.
- Advocate and facilitate patient advancements through the healthcare system.
- Understand different surgical practice models and delivery systems, and how to best utilize them to care for their patients.
- Understand the value of, and uses, practice guidelines. Work with other healthcare professionals to provide patient focused care within the larger system.