Orthopaedic Surgery Departmental Objectives

Interpersonal and Communication Skills
Resident will at all times demonstrate behavior that is beyond reproach. Residents must be able to demonstrate interpersonal and communication skills that result in effective information exchange and teaming with patients, their families, and professional associates. Residents are expected to:

- Demonstrate honest, open, civil, and effective communication with patients, staff, and colleagues (medical students, residents, attendings).
- Create and sustain a therapeutic and ethically sound relationship with patients.
- Use effective listening skills.
- Elicit and provide information using effective nonverbal, explanatory, questioning, and writing skills.
- Work effectively with others as a member or leader of a health care team or other professional group.

Practice-Based Learning and Improvement
Residents must be able to investigate and evaluate their patient care practices, appraise and assimilate scientific evidence, and improve their patient care practices. Residents are expected to:

- Analyze practice experience and perform practice-based improvement activities using a systematic methodology.
- Locate, appraise, and assimilate evidence from scientific studies related to their patients’ health problems.
- Apply knowledge of study designs and statistical methods to the appraisal of clinical studies and other information on diagnostic and therapeutic effectiveness.
- Use information technology to manage information, access on-line medical information, and support their education.
- Facilitate the learning of students and other health care professionals.

Professionalism
Residents must demonstrate a commitment to carrying out professional responsibilities, adherence to ethical principles, and sensitivity to a diverse patient population. Residents are expected to:

- Demonstrate respect, compassion, and integrity.
- A responsiveness to the needs of patients and society that supersedes self-interest.
- Accountability to patients, society, and the profession.
- Commitment to excellence and on-going professional development.
- Demonstrate a commitment to ethical principles pertaining to:
  - Provision or withholding of clinical care.
  - Confidentiality of patient information.
  - Informed consent.
  - Business practices.
- Demonstrate sensitivity and responsiveness to patients’ culture, age, gender, and disabilities.

**Systems-Based Practice**
Residents must demonstrate an awareness of and responsiveness to the larger context and system of health care and the ability to effectively call on system resources to provide care that is of optimal value. Residents are expected to:

- Understand how their patient care and other professional practices affect other health care professions, the health care organization, and the larger society and how these elements of the system affect their own practice.
- Know how types of medical practice and delivery systems differ from one another, including methods of controlling health care costs and allocating resources.
- Practice cost-effective health care and resource allocation that does not compromise quality of care.
- Advocate for quality patient care and assist patients in dealing with system complexities.
- Know how to collaborate with health care managers and health care providers to assess, coordinate, and improve health care and know how these activities can affect system performance.

**Medical Knowledge**
Residents must demonstrate knowledge about established and evolving biomedical, clinical, and cognate (e.g. epidemiological) sciences and the application of this knowledge to patient care. Residents are expected to:

- Demonstrate an investigatory and analytic thinking approach to clinical situations.
- Know and apply the basic and clinically supportive sciences with are appropriate to clinical situations.

**Patient Care**
Residents must be able to provide patient care that is compassionate, appropriate, and effective for the treatment of health problems and the promotion of health. Residents are expected to:

- Communicate effectively and demonstrate caring and respectful behaviors when interacting with patients and their families.
- Gather essential and accurate information about patient.
- Make informed decisions about diagnostic and therapeutic interventions based on patient information and preferences, up-to-date scientific evidence, and clinical judgment.
- Develop and carry out patient management plans, counsel and educate patients and their families.
- Use information technology to support patient care decisions and patient education.
- Perform competently all invasive procedures considered essential in foot and ankle practice.
- Provide health care services aimed at preventing health problems or maintaining health work with health care professionals, including those from other disciplines, to provide patient-focused care.
MD Anderson Rotation
PGY2 Level
Faculty: Dr. Valerae O. Lewis, Dr. Patrick P. Lin, Dr. Bryan S. Moon and Dr. Robert L. Satcher.

The PGY2 resident has the opportunity to gain experience in orthopaedic musculoskeletal oncology/pathology anomalies during this rotation. The rotation has provided our residents with a state-of-the-art clinical experience in the management of benign bone tumors, malignant tumors, bone tumors, soft tissue tumors and metastatic lesions and the management of fractures, avascular necrosis, infections, osteoporosis and arthritis in the adult and pediatric patient. The University of Texas M.D. Anderson Cancer Center has the largest sarcoma center in the United States and provides an incredible learning environment. The case load and variety is unparalleled. This provides the resident with vast exposure and hands on experience in the field of musculoskeletal oncology. M.D. Anderson Cancer Center’s emphasis on a multidisciplinary approach allows the resident to benefit from the expertise of the medical and radiation oncologist and other cancer specialists. The diversity of the faculty provides the resident with a cohesive but varied surgical approach to musculoskeletal oncology.

The clinical practice of each of the orthopaedic oncologist at the University of Texas M.D. Anderson Cancer Center is diverse. The nature of the disease and breadth of sarcoma and musculoskeletal oncology provides the resident with exposure to benign and malignant bone and soft tissue tumors in both pediatric and adult population. The resident is exposed to an extraordinary variety of surgical cases. Not only does he/she have the hands-on benefit of seeing each of these patients in clinic, but they are exposed to the patients and interesting cases in other services during the Wednesday morning Indications/Morbidity and Mortality conference. During this conference the resident participate in an in-depth discussion and patient care planning for all of the patients.

The resident has the opportunity to learn about oncological surgical procedures which can be complex and differ greatly from the general orthopedic procedure. The resident is also assigned to clinic one to two times a week to evaluate new patients, consults, pre-and post-operative patients and long term follow ups. The resident assists in the in-patient, post-operative care including surgical management of surgical ICU patients.

Patient Care
Goal: Our goal is for our residents to provide patient care that is compassionate, appropriate and effective for the treatment of health problems and the promotion of health.

Objectives:
- Develop and carry out patient management plans designed for oncologic patients and to counsel and educate patients and their families
- The resident assists in the in-patient, post-operative care including surgical management of surgical ICU patients.
- Ability to perform complete appropriate examination of all major joints and extremities including the axial skeleton in patients.
Measurement: End of rotation evaluations and semi-annual evaluation by the program director, patient satisfaction surveys and input

**Medical Knowledge**
Goal: Our goal is for our residents to improve medical knowledge about established and evolving biomedical, clinical and cognate (e.g. epidemiological and social-behavioral) sciences and the application of this knowledge to patient care as related to oncologic conditions.

Objectives:
- Demonstrate an investigatory and analytic thinking approach to clinical situations.
- Know and apply the basic and clinically supportive sciences
- Have the medical knowledge to know operative versus nonoperative management of patients.
- Have the physical examination skills and knowledge for evaluating imaging studies to aid in the diagnosis of conditions.

Measurement: Improved knowledge obtained through the weekly reading assignments in the area of musculoskeletal oncology as assessed by performance on weekly examinations, improved percentile in the musculoskeletal oncology section on the OITE.

**System Based Practice and Learning**
Goal: Our goal for our residents is to foster system-based practice with the ability to effectively call on system resources to provide care that is of optimal value; an awareness of and responsiveness to the larger context and system of health care and the ability to effectively call on system resources to provide care that is of optimal value.

Objectives:
- Demonstrate awareness of economic issues of oncologic musculoskeletal conditions
- Awareness of health care workers involvement in the care of oncologic musculoskeletal conditions
- Practices cost-effective care within the medical system with compromising quality care of the patient.
- Understand health funding systems including private insurance, Medicare, Medicaid and WCI.
- Understand correct billing codes for office visits and surgery

Measurement: Semi-annual evaluation by the program director, review of ACGME patient log to be sure the resident is coding procedures, feedback by faculty during rotation.

**Practice Based Learning and Improvement**
Goal: Residents must be able to investigate and evaluate their patient care practices, appraise and assimilate scientific evidence, and improve their patient care practices in direct relation to musculoskeletal oncology problems.
Objectives:
- Identify deficiencies in knowledge base and develop independent means to address them
- Perform a literature search to answer clinical questions/situation
- Participate in M&M conference, journal club and case conferences to increase learning
- Actively participate in research projects

Measurement: Semi-annual evaluation by the program director, review of research by the Research Committee on progress on their research activities, OKU assessments and AAOS Comprehensive Review

**Interpersonal and Communication Skills**
Goal: Resident will at all times demonstrate behavior that is beyond reproach. Residents must be able to demonstrate interpersonal and communication skills that result in effective information exchange and teaming with their patients, their patients families, and professional associates.
Residents are expected to:

Objectives:
- Demonstrate effective communication skills with patients, staff and colleagues
- Use effective listening skills
- Provide information using effective nonverbal, explanatory and writing skills
- Sustain a therapeutic and ethically sound relationship with patients, staff and colleagues
- Effectively work with others as a member or leader of a health care team or other professional group.

Measurement: Semi-annual evaluation with the program director, feedback from attendings and other members of the health care team.

**Professionalism**
Goal: Residents must demonstrate a commitment to carrying out professional responsibilities, adherence to ethical principles, and sensitivity to a diverse patient population during their rotation.

Objectives:
- Demonstrate a commitment to ethical principles relating to confidentiality of patient information, informed consent and business practices.
- Demonstrate respect, compassion and integrity.
- Demonstrate sensitivity to patients culture, age, gender and disabilities

Measurement: end of rotation evaluation, semi-annual evaluation by program director, peer evaluation

**Procedural Skills**
Goal: The resident at the end of their residency will have a broad experience in operative skills in this area of expertise. The resident will be able to graduate as competent and independent orthopaedic surgeons.
Objectives:
- Demonstrate increased knowledge in operative procedures
- Increased knowledge during rotation in procedures regarding oncology procedures

Measurement: Review of case log procedures, end of rotation evaluation, semi evaluation by program director

**UTMB Foot and Ankle Rotation**

**PGY2 Level**

**Patient Care:**
Goal: Residents must be able to provide patient care that is compassionate, appropriate, and effective for the treatment of health problems with foot and ankle injuries and the promotion of health. Faculty: Dr. Vinod Panchbhavi.

Objectives:
- Develop and carry out patient management plans, counsel and educate patients and their families.
- Know how to assess and conservatively manage acute disorders of the foot and ankle including inflammatory states and tumors.
- Know how to assess and conservatively manage trauma of the foot, ankle and leg
- Know how to conservatively assess and treat chronic foot disorders including bunions and other dynamic deformities and motor sensory deficits
- Know how to assess and nonoperatively manage severe musculoskeletal infection when indicated.

Measurement: Semi-annual evaluation of program director, end of rotation evaluation, feedback from faculty/attending on rotation

**Medical Knowledge**
Goal: Must demonstrate knowledge regarding foot and ankle problems about established and evolving biomedical, clinical, and cognate (e.g. epidemiological) sciences and the application of this knowledge to patient care.

Objectives:
- Know the anatomy and biomechanics of the foot and ankle.
- Know how to identify and determine antibiotic susceptibility of organisms.
- Know and recognize the presenting symptoms of foot and ankle problems
- Formulate differential diagnosis for common orthopaedic conditions
- Knowledge of the surgical techniques and management of common foot and ankle conditions.
- Knowledge and understanding of the pathology and typical treatment options for diabetic foot conditions.
- Knowledge of the surgical techniques and management of common foot and ankle conditions.
Measurement: Semi-annual evaluation by program director, end of rotation evaluation, case presentations, OITE score, and improved knowledge obtained from weekly reading assignment and application of knowledge.

**System Based Practice and Learning**

Goal: Our goal for our residents on the foot and ankle rotation is to foster system-based practice with the ability to effectively call on system resources to provide care that is of optimal value; an awareness of and responsiveness to the larger context and system of health care and the ability to effectively call on system resources to provide care that is of optimal value.

Objectives:
- Understand how their patient care and other professional practices affect other health care professions, the health care organization, and the larger society and how these elements of the system affect their practice.
- Know how types of medical practice and delivery systems differ from one another, including methods of controlling health care costs and allocating resources.
- Practice cost-effective health care and resource allocation that does not compromise quality of care.
- Advocate for quality patient care and assist patients in dealing with system complexities.
- Know how to collaborate with health care managers and health care providers to assess, coordinate, and improve health care and know how these activities can affect system performance.
- Ability to work with a multidisciplinary limb salvage team.
- Familiarity with scheduling and planning outpatient surgeries.

Measurement: Semi-annual evaluation with program director, end of rotation evaluation by faculty/attending, feedback of faculty during rotation.

**Practice Based Learning**

Goals: Residents must be able to investigate and evaluate their patient care practices, appraise and assimilate scientific evidence, and improve their patient care practices in direct relation to foot and ankle problems.

Objectives:
- Analyze practice experience and perform practice-based improvement activities using a systematic methodology.
- Locate, appraise, and assimilate evidence from scientific studies related to their foot and ankle patient’s health problems.
- Apply knowledge of study designs and statistical methods to the appraisal of clinical studies and other information on diagnostic and therapeutic effectiveness.
- Use information technology to manage information, access on-line medical information, and support their education.
- Facilitate the learning of students and other health care professionals.
- Participate in journal club, M&M and case presentations.
- Participate in saw bone and cadaver workshops to increase learning skills.
Measurement: Semi-annual evaluation by program director, peer review, direct feedback from role models (faculty)

**Interpersonal and Communication Skills**
Goal: Resident will at all times demonstrate behavior that is beyond reproach. Residents must be able to demonstrate interpersonal and communication skills that result in effective information exchange and teaming with their foot and ankle patients, their patients' families, and professional associates. Residents are expected to:

Objectives:
- Demonstrate honest, open, civil, and effective communication with patients, staff, and colleagues (medical students, residents, attendings).
- Create and sustain a therapeutic and ethically sound relationship with patients.
- Use effective listening skills.
- Elicit and provide information using effective nonverbal, explanatory, questioning, and writing skills.
- Work effectively with others as a member or leader of a health care team or other professional group.

Measurement: Peer review, Semi-annual evaluation by program director, end of rotation evaluation, improvement during case presentations

**Professionalism**
Goal: Residents must demonstrate a commitment to carrying out professional responsibilities, adherence to ethical principles, and sensitivity to a diverse patient population during their foot and ankle rotation.

Objectives:
- Demonstrate respect, compassion, and integrity.
- A responsiveness to the needs of patients and society that supersedes self-interest.
- Accountability to patients, society, and the profession.
- Commitment to excellence and on-going professional development.
- Demonstrate a commitment to ethical principles pertaining to clinical care, confidentiality of patient information, informed consent and business practices.
- Demonstrate sensitivity and responsiveness to patients' culture, age, gender, and disabilities.

Measurements: Peer review, end of rotation evaluation, semi-annual evaluation by program director, faculty attending
**Procedural Skills**

Goal: The resident at the end of their residency will have a broad experience in operative skills in this area of expertise. The resident will be able to graduate as competent and independent orthopaedic surgeons.

Objective:
- Knowing and understanding procedures by reading about different approaches prior to surgery
- Demonstrate increased knowledge in operative procedures
- Increased knowledge during rotation in procedures regarding foot and ankle injuries/anomalies.

Measurement: Review of case log procedures

**UTMB Sports Medicine, Knee & Shoulder Rotation**

**PGY2 Level**

**Patient Care**

Goal: Residents must be able to provide patient care that is compassionate, appropriate, and effective for the treatment of health problems in the area of sports medicine, knee and shoulder injuries and the promotion of health. Faculty: Dr. Brian Smith

Objectives:
- Develop and carry out patient management plans designed for sports medicine, knee and shoulder patients and counsel and educate patients and their families
- Should understand the spectrum of both acute and chronic sports related injuries of all the major joints and axial skeleton in both children and in adults.
- Ability to perform complete appropriate examination of all major joints and extremities including the axial skeleton in patients with acute and chronic sports related injury.
- The resident will gain the ability to set up and perform diagnostic arthroscopy of the ankle, knee, shoulder, and elbow.

Measurement: Semi-annual evaluation of the program director, direct feedback by faculty/attending, patient satisfaction feedback.

**Medical Knowledge**

Goal: Goal is for our residents to improve medical knowledge regarding sports medicine/knee and shoulder injuries in relation to established and evolving biomedical, clinical and cognate (e.g. epidemiological and social-behavioral) sciences and the application of this knowledge to patient care.

Objectives:
- Participate in the evaluation and management of patients in clinics and surgery
- Commitment to understanding and keep current with weekly reading assignments
- Demonstrate an investigatory and analytic thinking approach to clinical situations
- Knowledge of the anatomy and biomechanics of the knee and shoulder.

Measurement: Improved knowledge obtained through the weekly reading assignments in the area of sports medicine as assessed by performance on weekly examinations, improved percentile in the sports medicine, knee & shoulder sections on the OITE.

**System Based Practice and Learning**
Goal: Our goal for our residents is to foster system-based practice with the ability to effectively call on system resources to provide care that is of optimal value; an awareness of and responsiveness to the larger context and system of health care and the ability to effectively call on system resources to provide care that is of optimal value during their sports medicine/knee and shoulder service:

Objectives:
- Participate and understand the role of multidisciplinary care for the management of patients with sports medicine, knee and shoulder problems.
- Understand how their patient care and other practices affect other health care professions and how these elements affect their practice.
- Practice cost-effective health care and resource allocation that does not compromise quality of care.
- Understand appropriate referrals

Measurement: semi-annual evaluation with program director, peer review, end of rotation evaluation

**Practice Based Learning Improvement**
Goals: Residents must be able to investigate and evaluate their patient care practices, appraise and assimilate scientific evidence, and improve their patient care practices in direct relation to sports medicine/knee and shoulder conditions.

Objectives:
- Analyze practice experience and perform practice-based improvement activities using a systematic methodology.
- Participate in journal club, M&M and case presentations
- Participate in saw bone and cadaver workshops to increase learning skills.

Measurement: Semi-annual evaluation with program director, end of rotation evaluation, peer review

**Interpersonal and Communication Skills**
Goal: Resident will at all times demonstrate behavior that is beyond reproach. Residents must be able to demonstrate interpersonal and communication skills that result in effective information exchange and teaming with their sports medicine/knee and shoulder patients, their patients families, and professional associates.
Objectives:
- Demonstrate honest, open and effective communication with patients, staff and colleagues (medical students, residents, faculty)
- Create and sustain an ethically sound relationship with patients.
- Develop and use effective listening skills.
- Work effectively with others as a member or leader of a health care team or professional group.

Measurement: Semi-annual evaluation with program director, end of rotation evaluation, peer reviews

**Professionalism**
Goals: Residents must demonstrate a commitment to carrying out professional responsibilities, adherence to ethical principles, and sensitivity to a diverse patient population during their sports medicine/knee and shoulder rotation. Residents are expected to:

Objectives:
- Demonstrate respect, compassion, and integrity.
- Responsiveness to the needs of patients and society that supersedes self-interest.
- Accountability to patients, society, and the profession.
- Commitment to excellence and on-going professional development.
- Demonstrate a commitment to ethical principles pertaining to clinical care (confidentiality of patient information, informed consent and business practice).
- Demonstrate sensitivity and responsiveness to patients’ culture, age, gender, and disabilities.

Measurement: Semi-annual evaluation by program director, end of rotation evaluation, peer review

**Procedural Skills**
Goal: The resident at the end of their residency will have a broad experience in operative skills in this area of expertise. The resident will be able to graduate as competent and independent orthopaedic surgeons.

Objective:
- Knowing and understanding procedures by reading about different approaches prior to surgery
- Demonstrate increased knowledge in operative procedures
- The resident will gain increased knowledge during rotation in procedures regarding sports medicine/knee/shoulder injuries.

Measurement: Review of case log procedures, end of rotation evaluations
Spine Service (UTMB) Rotation
PGY 2 Level

Service manages adult spine problems including degenerative diseases, infection, trauma and tumors. Faculty: Dr. Ron Lindsey, Dr. David Yngve, Dr. Thomas Jones

Patient Care
Goal: Residents must be able to provide patient care that is compassionate, appropriate, and effective for the treatment of health problems with spine related problems and the promotion of health.

Objectives:
- Develop and carry out patient management plans, counsel and educate patients and their families.
- The resident will be able to adequately assess patients with back problems.
- Should be able to differentiate between operative and nonoperative back
- Should be able to recognize urgent and emergent conditions related to nerve root function, spinal cord function, infection, malignancy, and fracture.
- Perform a focused orthopaedic exam with attention to patient’s complaints and ability

Measurement: Semi-annual evaluation by program director, end of rotation evaluation, peer review

Medical Knowledge
Goal: Our goal is for our residents to improve medical knowledge about established and evolving biomedical, clinical and cognate (e.g. epidemiological and social-behavioral) sciences and the application of this knowledge to patient care.

Objectives:
- The resident will be able to appropriately order imaging studies in the correct temporal sequence for patients with back problems.
- Should have adequate knowledge of operative exposure/anatomy of the common approaches to the spine.
- Should be able to apply medical knowledge from recent publications and reading assignments to patient care activities.
- Demonstrate an investigatory and analytic thinking approach to clinical situations.
- Know and apply the basic and clinically supportive sciences

Measurement: End of rotation evaluation, semi-annual evaluation by program director, OITE scores, weekly reading assignment/examination score

System Based Practice and Learning
Goal for Program: Residents must demonstrate an awareness of and responsiveness to the larger context and system of health care and the ability to effectively call on system resources to provide care that is of optimal value during their spine rotation.
Objectives:
- Understand how their patient care and other professional practices affect other health care professions, the health care organization, and the larger society and how these elements of the system affect their practice.
- Know how types of medical practice and delivery systems differ from one another, including methods of controlling health care costs and allocating resources.
- Practice cost-effective health care and resource allocation that does not compromise quality of care.
- Advocate for quality patient care and assist patients in dealing with system complexities.
- Know how to collaborate with health care managers and health care providers to assess, coordinate, and improve health care and know how these activities can affect system performance.

Measurement: Semi-annual evaluation by program director, peer review, end of rotation evaluation

Practice Based Learning
Goal: Residents must be able to investigate and evaluate their patient care practices, appraise and assimilate scientific evidence, and improve their patient care practices in direct relation to simple and complex spinal problems.

Objectives:
- Analyze practice experience and perform practice-based improvement activities using a systematic methodology.
- Locate, appraise, and assimilate evidence from scientific studies related to their patients' health problems.
- Apply knowledge of study designs and statistical methods to the appraisal of clinical studies and other information on diagnostic and therapeutic effectiveness.
- Use information technology to manage information, access on-line medical information, and support their education.
- Facilitate the learning of students and other health care professionals.

Measurement: End of rotation evaluation (faculty), OKU assessments, semi-annual evaluations (faculty)

Interpersonal and Communication Skills
Goal: Resident will at all times demonstrate behavior that is beyond reproach. Residents must be able to demonstrate interpersonal and communication skills that result in effective information exchange and teaming with their spine patients, their patients families, and professional associates.

Objectives:
- Demonstrate honest, open, civil, and effective communication with patients, staff, and colleagues (medical students, residents, attendings).
- Create and sustain a therapeutic and ethically sound relationship with patients.
• Use effective listening skills.
• Elicit and provide information using effective nonverbal, explanatory, questioning, and writing skills.
• Work effectively with others as a member or leader of a health care team or other professional group.

Measurements: Peer review, end of rotation evaluation by faculty attending, semi-annual evaluation, patient satisfaction results

**Professionalism**
Goal: Residents must demonstrate a commitment to carrying out professional responsibilities, adherence to ethical principles, and sensitivity to a diverse patient population during their spine rotation.

Objectives:
• Demonstrate respect, compassion, and integrity.
• The resident will respond to the needs of patients and society that supersedes self-interest.
• Accountability to patients, society, and the profession.
• Commitment to excellence and on-going professional development.
• Demonstrate a commitment to ethical principles pertaining to:
  o Provision or withholding of clinical care.
  o Confidentiality of patient information.
  o Informed consent.
  o Business practices.
• Demonstrate sensitivity and responsiveness to patient’s culture, age, gender, and disabilities.

Measurements: Peer review, end of rotation evaluation by attending/faculty, semi-annual evaluation by program director.

**Procedural Skills**
Goals: The resident at the end of their residency will have a broad experience in operative skills in this area of expertise. The resident will be able to graduate as competent and independent orthopaedic surgeons.

Objectives:
• Should be able to adequately close wounds.
• Should be able to assist faculty and chief resident in surgery.
• Should know and understand the use of and rationale for different operating tables, headrests, skull traction devices and should be able to adequately prep and drape patients for spine surgery.

Measurements: ACGME patient case logs
**Trauma/TDCJ Rotation**  
**PGY2-3 Level**

The residents experience trauma/TDCJ/hand surgery during their PGY2-3 year (UTMB TDCJ rotation). The rotation emphasizes orthopaedic trauma in the emergency room and consults to the orthopaedic surgery service. The service is a general orthopaedic service that meets the orthopaedic needs of the Texas inmates of the Texas Department of Criminal Justice System. The residents will develop an understanding of and actively participate in a managed care environment on the TDCJ rotation.

Faculty: Drs. Stan Allen, Kelly Carmichael, Ronald Lindsey, Kelly Stephenson.

**Patient Care**  
Goal: Our goal is for our residents to provide patient care that is compassionate, appropriate and effective for the treatment of health problems and the promotion of health.

Objectives:
- To develop and demonstrate competence in the evaluation, the nonoperative treatment and operative treatment of general adult orthopaedic conditions to include but not limited by traumatic, degenerative, inflammatory, pathologic, and infection conditions of the musculoskeletal system, and to show proficiency in the diagnosis and nonoperative treatment of orthopaedic conditions.
- Develop and carry out patient management plans and/or counsel and educate patients and their families. The junior residents will demonstrate competence in the physical and radiographic evaluation of common orthopaedic problems, and will formulate plans of care for the cases they are exposed to.
- Ability to perform complete appropriate examination of all major joints and extremities including the axial skeleton in patients with acute and chronic orthopaedic injuries.

Measurement: End of rotation evaluations and semi-annual evaluation by the program director, patient satisfaction surveys

**Medical Knowledge**  
Goal: Our goal is for our residents to improve medical knowledge about established and evolving biomedical, clinical and cognate (e.g. epidemiological and social-behavioral) sciences and the application of this knowledge to patient care as related to general orthopaedic conditions.

Objectives:
- Know how to diagnose and treat general orthopaedic conditions in the TDCJ environment – knowledge of the anatomy and biomechanics of the shoulder, knee, hand and foot.
- Knowledge of early and long-term shoulder, knee, hand and foot rehabilitation, including modalities, exercise and orthotics.
- Demonstrate an investigatory and analytic thinking approach to clinical situations.
- Know and apply the basic and clinically supportive sciences
- Have the medical knowledge to know operative versus nonoperative management of a general anomalies.
- Have the physical examination skills and knowledge for evaluating imaging studies to aid in the diagnosis of these conditions.
- Knowledge of anatomy and biomechanics of musculoskeletal system.
- Apply knowledge and techniques gained from other rotations as well as obtaining specialist consultation when indicated.

Measurement: Improved knowledge obtained through the weekly reading assignments in the area of general orthopaedic surgery as assessed by performance on weekly examinations, improved percentile in the adult reconstruction section on the OITE.

**System Based Practice and Learning**

Goal: Our goal for our residents is to foster system-based practice with the ability to effectively call on system resources to provide care that is of optimal value; an awareness of and responsiveness to the larger context and system of health care and the ability to effectively call on system resources to provide care that is of optimal value.

Objectives:
- Understanding of and actively participate in a managed care environment on the TDCJ rotation.
- Demonstrate awareness of economic issues of procedures.
- Awareness of health care workers involvement in the care of orthopaedic conditions/consults.
- Practices cost-effective care within the medical system with compromising quality care of the patient.
- Understand correct billing codes for office visits and surgery
- The residents will be exposed to and demonstrate proficiency in managing patients via remote site evaluation (telemedicine).

Measurement: Semi-annual evaluation by the program director, review of ACGME patient log to be sure the resident is coding procedures, feedback by faculty during rotation.

**Practice Based Learning and Improvement**

Goal: Residents must be able to investigate and evaluate their patient care practices, appraise and assimilate scientific evidence, and improve their patient care practices in direct relation to general orthopaedics/TDCJ population.

Objectives:
- Identify deficiencies in knowledge base and develop independent means to address them
- Perform a literature search to answer clinical questions
- Participate in M& M conference, journal club and UTMB case conferences to increase learning
- Actively participate in research projects
Measurement: Semi-annual evaluation by the program director, review of research by the Research Committee on progress on their research activities, OKU assessments and AAOS Comprehensive Review

**Interpersonal and Communication Skills**
Goal: Resident will at all times demonstrate behavior that is beyond reproach. Residents must be able to demonstrate interpersonal and communication skills that result in effective information exchange and teaming with their TDCJ patients and general orthopaedic consult patients, their patient’s families, and professional associates. Residents are expected to:

Objectives:
- Demonstrate effective communication skills with patients, staff and colleagues
- Use effective listening skills
- Provide information using effective nonverbal, explanatory and writing skills
- Sustain a therapeutic and ethically sound relationship with patients, staff and colleagues
- Effectively work with others as a member or leader of a health care team or other professional group.

Measurement: Semi-annual evaluation with the program director, feedback from attendings and other members of the health care team.

**Professionalism**
Goal: Residents must demonstrate a commitment to carrying out professional responsibilities, adherence to ethical principles, and sensitivity to a diverse patient population during their Trauma/TDCJ rotation.

Objectives:
- Demonstrate a commitment to ethical principles relating to confidentiality of patient information, informed consent and business practices.
- Demonstrate respect, compassion and integrity
- Demonstrate sensitivity to patients culture, age, gender and disabilities

Measurement: Role modeling of faculty, end of rotation evaluation, semi-annual evaluation by program director.

**Procedural Skills**
Goal: The resident at the end of their residency will have a broad experience in operative skills in this area of expertise. The resident will be able to graduate as competent and independent orthopaedic surgeons.

Objectives:
- The residents will develop proficiency in the arthroscopic diagnosis and surgical management of shoulder, knee, elbow, and ankle disorders.
• The junior resident will concentrate on basic orthopaedic procedures such as ORIF of long bone fractures, injection techniques, and basic arthroscopic skills; will develop an understanding of surgical anatomy and approaches.

Measurement: Review of case log procedures, end of rotation evaluation, semi evaluation by program director

**Pediatric Orthopaedic Surgery Rotation**

**PGY3 Level**

Patient population consists of all pediatric and orthopaedic musculoskeletal trauma to age 18, neuromuscular disorders and congenital and developmental deformities and disorders. The service emphasizes all aspects of pediatric orthopaedics including pediatric trauma. Faculty: Dr. Kelly Carmichael and Dr. David Yngve.

**Patient Care**

**Goal:** Residents must be able to provide patient care that is compassionate, appropriate, and effective for the treatment of Pediatric Orthopaedic health problems and the promotion of health.

**Objectives:**

- Develop and carry out patient management plans, counsel and educate patients and their families.
- Identification and treatment of traumatic injuries including fractures and dislocations.
- Reduce common fractures and apply appropriate splints and casts.
- Ability to manage and assess common angular and torsional variations.

Measurement: End of rotation evaluation by faculty; semi-annual evaluation by program director, patient input

**Medical Knowledge**

**Goals:** Must demonstrate knowledge regarding pediatric orthopaedic problems about established and evolving biomedical, clinical, and cognate (e.g. epidemiological) sciences and the application of this knowledge to patient care.

**Objectives:**

- Knowledge to advise the patients and their families about common conditions such as developmental dislocation of the hip, scoliosis, avascular necrosis of the hip, clubfoot, internal tibial torsion, and slipped capital femoral epiphysis.
- Have the medical knowledge to know operative versus nonoperative management of a pediatric condition.
- Demonstrate an investigatory and analytic thinking approach to clinical situations

Measurement: End of rotation evaluation, weekly reading assignments/examination, OITE scores
System Based Practice and Learning
Goal: Residents must demonstrate an awareness of and responsiveness to the larger context and system of health care and the ability to effectively call on system resources to provide care that is of optimal value during their pediatric orthopaedic surgery rotation.

Objectives:
- Understand how their patient care and other professional practices affect other health care professions, the health care organization, and the larger society and how these elements of the system affect their practice.
- Know how types of medical practice and delivery systems differ from one another, including methods of controlling health care costs and allocating resources.
- Practice cost-effective health care and resource allocation that does not compromise quality of care.
- Advocate for quality patient care and assist patients in dealing with system complexities.
- Know how to collaborate with health care managers and health care providers to assess, coordinate, and improve health care and know how these activities can affect system performance.

Measurements: End of rotation evaluation, semi-annual evaluation, peer review

Practice Based Learning
Goal: Residents must be able to investigate and evaluate their patient care practices, appraise and assimilate scientific evidence, and improve their patient care practices in direct relation to pediatric orthopaedic problems.

Objectives:
- Analyze practice experience and perform practice-based improvement activities using a systematic methodology.
- Locate, appraise, and assimilate evidence from scientific studies related to their patients’ health problems through research.
- Apply knowledge of study designs and statistical methods to the appraisal of clinical studies and other information on diagnostic and therapeutic effectiveness gained from journal clubs.
- Use information technology to manage information, access on-line medical information, and support their education to learn about pediatric orthopaedic conditions.
- Facilitate the learning of students and other health care professionals.

Measurement: End of rotation evaluation, semi-annual evaluation

Interpersonal and Communication Skills
Goal: Resident will at all times demonstrate behavior that is beyond reproach. Residents must be able to demonstrate interpersonal and communication skills that result in effective information exchange and teaming with their pediatric orthopaedic patients, their patients families, and professional associates. Residents are expected to:
Objectives:

- Demonstrate honest, open, civil, and effective communication with patients, staff, and colleagues (medical students, residents, attendings).
- Create and sustain a therapeutic and ethically sound relationship with patients.
- Use effective listening skills.
- Elicit and provide information using effective nonverbal, explanatory, questioning, and writing skills.
- Work effectively with others as a member or leader of a health care team or other professional groups.

Measurement: End of rotation evaluation by faculty/attendings, peer review, semi-annual evaluation by program director.

**Professionalism**

Goal: Residents must demonstrate a commitment to carrying out professional responsibilities, adherence to ethical principles, and sensitivity to a diverse patient population during their pediatric orthopaedic rotation.

Objectives:

- Demonstrate respect, compassion, and integrity.
- A responsiveness to the needs of patients and society that supersedes self-interest.
- Accountability to patients, society, and the profession.
- Commitment to excellence and on-going professional development.
- Demonstrate a commitment to ethical principles pertaining to clinical care, confidentiality of patient information, informed consent and business practices.
- Demonstrate sensitivity and responsiveness to patients' culture, age, gender, and disabilities.

Measurement: End of rotation evaluation, end of rotation evaluation, peer review, comments and input from other health professionals

**Procedural Skills**

The resident at the end of their residency will have a broad experience in operative skills in this area of expertise. The resident will be able to graduate as competent and independent orthopaedic surgeons.

Objectives:

- The resident by the end of the rotation will have the knowledge and ability to reduce common fractures and apply appropriate splints and casts.
- Improvement in operative skills relating to pediatric orthopaedic procedures

Measurement: Observation by faculty/attending on rotation, end of rotation evaluation, semi-annual evaluation, ACGME procedure logs.
SLEH Adult Orthopedics – Primarily Joint Replacement Rotation
PGY3 Level

During this rotation, the resident is involved in the office practice of adult orthopaedics. The resident evaluates all new patients performing a thorough history, physical examination, orders and interprets X-rays and formulates a diagnosis and treatment plan. Each case is discussed in detail with the resident.

The resident assists in surgery. The majority of surgery is hip and knee replacements. The extent of resident involvement depends on the individual residents experience and ability. The resident follows each patient through their entire course of treatment until hospital discharge. All treatment plans are discussed daily with staff. The resident follows each of these post operative patients in the office with staff supervision. The residents on this rotation are 3rd year.

Facility Contact: Sherwin J Siff, MD

Patient Care
Goal: Residents must be able to provide patient care that is compassionate, appropriate, and effective for the treatment of health problems and the promotion of health seen in the adult orthopaedics/primarily Joint replacement rotation.

Objectives:
- Communicate effectively and demonstrate caring and respectful behaviors when interacting with patients and their families.
- Gather essential and accurate information about patient.
- Experience in seeing, diagnosing, and healing patient with both routine and unusual problems.
- Experience in evaluating and preparing patients for surgery.
- Experience in the performance of surgery on these patients.
- Experience in post operative management.
- Experience in managing these patients following hospital discharge.

Measurement: End of rotation evaluation; semi-annual evaluation, patient input/comments; peer review

Medical Knowledge
Goal: Residents must demonstrate knowledge about established and evolving biomedical, clinical, and cognate (e.g. epidemiological) sciences and the application of this knowledge to patient care.

Objective: Knowledge of normal and abnormal hip and knee anatomy
- Demonstrate an investigatory and analytic thinking approach to clinical situations.
- Know and apply the basic and clinically supportive sciences which are appropriate to clinical situations.
• The residents must research the multiple diseases they are exposed to. The resident must familiarize themselves with the appropriate surgical techniques and post operative care.

Measurement: Semi-annual evaluation, OITE percentile scores (improvement); continued improvement on weekly reading assignment examination.

**Systems-Based Practice**
Goal: Residents must demonstrate an awareness of and responsiveness to the larger context and system of health care and the ability to effectively call on system resources to provide care that is of optimal value.

Objectives:
• Understand how their patient care and other professional practices affect other health care professions, the health care organization, and the larger society and how these elements of the system affect their own practice.
• Know how types of medical practice and delivery systems differ from one another, including methods of controlling health care costs and allocating resources.
• Practice cost-effective health care and resource allocation that does not compromise quality of care.
• Advocate for quality patient care and assist patients in dealing with system complexities.
• Know how to collaborate with health care managers and health care providers to assess, coordinate, and improve health care and know how these activities can affect system performance.

Measurement: End of rotation evaluation; semi-annual evaluation; feedback from faculty and other health care professionals.

**Practice-Based Learning and Improvement**
Goal: Residents must be able to investigate and evaluate their patient care practices, appraise and assimilate scientific evidence, and improve their patient care practices.

Objective:
• Analyze practice experience and perform practice-based improvement activities using a systematic methodology.
• Locate, appraise, and assimilate evidence from scientific studies related to their patients’ health problems. On occasion the resident gets involved in research projects relating to patients they have seen and evaluated. For example, one resident might become involved in the research project of stem cell treatment of avascular necrosis of the hip.
• Apply knowledge of study designs and statistical methods to the appraisal of clinical studies and other information on diagnostic and therapeutic effectiveness. Perform a literature search to answer clinical questions.
• Use information technology to manage information, access on-line medical information, and support their education.
Facilitate the learning of students and other health care professionals. Participate in M&M and UTMB and SLEH case conferences, journal club and case conferences to increase learning.

Measurement: End of rotation evaluation; semi-annual evaluation by program director; feedback from faculty and peers.

**Interpersonal and Communication Skills**

Goal: Resident will at all times demonstrate behavior that is beyond reproach. Residents must be able to demonstrate interpersonal and communication skills that result in effective information exchange and teaming with patients, their patients families and professional associates.

Objective:

- Demonstrate honest, open, civil, and effective communication with patients, staff, and colleagues (medical students, residents, attendings).
- Create and sustain a therapeutic and ethically sound relationship with patients.
- Use effective listening skills.
- Elicit and provide information using effective nonverbal, explanatory, questioning, and writing skills.
- Work effectively with others as a member or leader of a health care team or other professional group.

Measurement: Feedback from faculty/peers; end of rotation evaluation; semi-annual evaluation

**Professionalism**

Goal: Residents must demonstrate a commitment to carrying out professional responsibilities, adherence to ethical principles, and sensitivity to a diverse patient population.

Objectives:

- Demonstrate respect, compassion, and integrity.
- A responsiveness to the needs of patients and society that supersedes self-interest.
- Accountability to patients, society, and the profession.
- Commitment to excellence and on-going professional development.
- Demonstrate a commitment to ethical principles pertaining to:
  - Provision or withholding of clinical care.
  - Confidentiality of patient information.
  - Informed consent.
  - Business practices.
- Demonstrate sensitivity and responsiveness to patients’ culture, age, gender, and disabilities.

Measurement: End of rotation evaluation; feedback from faculty/attendings; semi-annual evaluations
**Procedural Skills**

Goal: The resident at the end of their residency will have a broad experience in operative skills in this area of expertise. The resident will be able to graduate as competent and independent orthopaedic surgeons.

Objectives:
- Demonstrate increased knowledge in operative procedures
- Increased knowledge during rotation in procedures regarding adult orthopaedic/joint replacement surgery.

Measurement: Review of case log procedures, end of rotation evaluation, semi evaluation by program director

**Texas Orthopedic Hospital (TOH) Hand Service) Rotation**

**PGY3 Level**

The TOH hand service emphasizes patients with acute and chronic disorders of the hand, wrist, elbow, and shoulder, including tumors and congenital anomalies and upper extremity trauma. Faculty on the Texas Orthopaedic Hospital rotation are: Dr. James Bennett, Dr. Thomas Mehlhoff, Dr. Craig Crouch and Dr. Idris Gharbaoui. Residents rotating on this service: PGY3

Hand surgery service at Texas Orthopaedic Hospital (Houston) is primarily an elective reconstructive hand and upper extremity service to include hand, wrist, and elbow pathology. The service provides exposure for the PGY3 level orthopaedic surgery resident. Educational opportunities and objectives involve the diagnosis and treatment of hand and upper extremity trauma, disease and arthritis. It is inclusive of congenital anomalies as well as adult pathology. The rotation includes the surgical assessment and treatment of reconstructive hand and upper extremity limb deformities and fracture management.

Requirements include PGY3 knowledge of the anatomy and pathology as it applies to hand and upper extremity injuries or deformities. Orthopaedic skills include the ability to reduce and treat common fractures, infections, tendon injuries and to assess soft tissue injuries and evaluation and management.

Reconstruction skills will be observed on a mentorship basis and follow within the realm of the surgical skills of the residency level. Primary orthopaedic skills in regards to hand surgery at a PGY3 level would be fractures, infections, tendon, nerve and vascular injuries and appropriate skills for repair of such injuries.

**Patient Care**

Goal: Residents must be able to provide patient care that is compassionate, appropriate, and effective for the treatment of health problems and the promotion of health. Residents are expected to:

Objective:
• Communicate effectively and demonstrate caring and respectful behaviors when interacting with patients and their families.
• Gather essential and accurate information about patient; diagnosis and treatment of hand and upper extremity trauma, disease and arthritis. It is inclusive of congenital anomalies as well as adult pathology.
• Make informed decisions about diagnostic and therapeutic interventions based on patient information and preferences, up-to-date scientific evidence, and clinical judgment.
• Develop and carry out patient management plans, counsel and educate patients and their families.
• Use information technology to support patient care decisions and patient education.
• Perform competently all invasive procedures considered essential in practice.
• Provide health care services aimed at preventing health problems or maintaining health work with health care professionals, including those from other disciplines, to provide patient-focused care.

Measurement: Semi-annual evaluation, end of rotation evaluation, peer review, patient feedback/input

**Medical Knowledge**
Goals: Residents must demonstrate knowledge about established and evolving biomedical, clinical, and cognate (e.g. epidemiological) sciences and the application of this knowledge to patient care.

Objectives:
• Demonstrate an investigatory and analytic thinking approach to clinical situations.
• Know and apply the basic and clinically supportive sciences that are appropriate to clinical situations.
• Demonstrate knowledge to assess soft tissue injuries and evaluation and management.

Measurements: semi-annual evaluation, OITE percentile scores (improvement); continued improvement on weekly reading assignment examination

**Systems-Based Practice**
Goal: Residents must demonstrate an awareness of and responsiveness to the larger context and system of health care and the ability to effectively call on system resources to provide care that is of optimal value.

Objectives:
• Understand how their patient care and other professional practices affect other health care professions, the health care organization, and the larger society and how these elements of the system affect their own practice.
• Know how types of medical practice and delivery systems differ from one another, including methods of controlling health care costs and allocating resources.
• Practice cost-effective health care and resource allocation that does not compromise quality of care.
• Advocate for quality patient care and assist patients in dealing with system complexities.
• Know how to collaborate with health care managers and health care providers to assess, coordinate, and improve health care and know how these activities can affect system performance.

Measurement: End of rotation evaluation; semi-annual evaluation; feedback from faculty and other health care professionals.

Practice-Based Learning and Improvement
Goal: Residents must be able to investigate and evaluate their patient care practices, appraise and assimilate scientific evidence, and improve their patient care practices.

Objective:
• Analyze practice experience and perform practice-based improvement activities using a systematic methodology.
• Locate, appraise, and assimilate evidence from scientific studies related to their patients’ health problems. On occasion the resident gets involved in research projects relating to patients they have seen and evaluated. (example: Research on diagnosis and apply to clinical situation).
• Apply knowledge of study designs and statistical methods to the appraisal of clinical studies and other information on diagnostic and therapeutic effectiveness. Perform a literature search to answer clinical questions. The residents must research the multiple diseases they are exposed to. The resident must familiarize themselves with the appropriate surgical techniques and post operative care.
• Use information technology to manage information, access on-line medical information, and support their education regarding clinical situations.
• Facilitate the learning of students and other health care professionals. Participate in M&M conferences, journal club and case conferences to increase learning.

Measurement: End of rotation evaluation; semi-annual evaluation by program director; feedback from faculty and peers.

Interpersonal and Communication Skills
Goal: Resident will at all times demonstrate behavior that is beyond reproach. Residents must be able to demonstrate interpersonal and communication skills that result in effective information exchange and teaming with patients, their patients families, and professional associates.

Objective:
• Demonstrate honest, open, civil, and effective communication with patients, staff, and colleagues (medical students, residents, attendings).
• Create and sustain a therapeutic and ethically sound relationship with patients.
• Use effective listening skills.
• Elicit and provide information using effective nonverbal, explanatory, questioning, and writing skills.
• Work effectively with others as a member or leader of a health care team or other professional group.

Measurement: feedback from faculty/peers; end of rotation evaluation; semi-annual evaluation

**Professionalism**
Goal: Residents must demonstrate a commitment to carrying out professional responsibilities, adherence to ethical principles, and sensitivity to a diverse patient population.

Objectives:
• Demonstrate respect, compassion, and integrity.
• A responsiveness to the needs of patients and society that supersedes self-interest.
• Accountability to patients, society, and the profession.
• Commitment to excellence and on-going professional development.
• Demonstrate a commitment to ethical principles pertaining to:
  o Provision or withholding of clinical care.
  o Confidentiality of patient information.
  o Informed consent.
  o Business practices.
• Demonstrate sensitivity and responsiveness to patients’ culture, age, gender, and disabilities.

Measurement: End of rotation evaluation; feedback from faculty/attendings; semi-annual evaluations

**Procedural Skills**
Goal: The resident at the end of their residency will have a broad experience in operative skills in this area of expertise. The resident will be able to graduate as competent and independent orthopaedic surgeons.

Objectives:
• Increased knowledge during rotation in procedures regarding hand procedures.
• Primary orthopaedic skills in regards to hand surgery at a PGY3 level would be fractures, infections, tendon, nerve and vascular injuries and appropriate skills for repair of such injuries.

Measurement: Review of case log procedures, end of rotation evaluation, semi evaluation by program director

**Brooks (Sports Medicine and Adult Reconstruction) Rotation**
**PGY-3 Level**

The service emphasizes the care of patients with injuries related to sports and other physical activities as well as those with arthritis of the hip and knee. The service is conducted at both on and off Island facilities (TDCJ/Sealy, Memorial Hermann Southeast, and Victory Lakes
Specialty Care Center). The patient population includes all individuals over the age of 12 years. The disorders to be managed include: tendon and ligament injuries of the shoulder, elbow, hip, and knee; articular and meniscal cartilage injuries of the shoulder, elbow, hip, and knee; labral injuries of the shoulder and hip; osteonecrosis of the shoulder, hip, and knee; skeletal malalignment of the lower extremity; instability of the patella; arthritis due to all causes of the shoulder, hip, and knee; and fractures of the upper and lower extremity. The faculty preceptor for this rotation is Kenneth Brooks, MD.

**Educational Objectives:**
To increase the resident’s knowledge and ability in the following areas:

**Patient Care**
Goals: Provide patient care that is compassionate, appropriate, and effective for the prevention and treatment of sports and activity-related injuries and arthritis of the major joints.

Objectives:
- Develop and carry out patient management plans, and counsel and educate patients and their families on the rationale for those plans.
- Demonstrate the ability to recognize sports and activity-related injuries and arthritic conditions
- Understand and apply preventative, non-operative, and operative management techniques

Measurement: ACGME case logs, end of rotation evaluation, patient feedback, semi-annual evaluation, peer review

**Medical Knowledge**
Goals: demonstrate knowledge about established and evolving biomedical, clinical, and cognate (e.g. epidemiological) sciences, and the application of this knowledge to patient care regarding sports and activity-related and arthritic conditions. Residents are expected to:

Objectives:
- Knowledge of anatomy and biomechanics of the upper extremity, lower extremity and pelvis
- Knowledge of the evaluation and management of acute and chronic injuries and arthritis
- Knowledge of the non-operative management of traumatic injuries and arthritic conditions
- Knowledge of the surgical techniques for managing acute and chronic musculoskeletal traumatic and arthritic conditions
- Knowledge of early or immediate inpatient care of patients with acute or chronic traumatic conditions
- Knowledge of the early and long term rehabilitation modalities for patients with traumatic and arthritic conditions
Measurement: End of rotation evaluation, semi-annual evaluation, feedback from faculty, OITE scores, weekly reading assignment/examination

**System Based Practice and Learning**
Goals: demonstrate an awareness of and responsiveness to the larger context and system of health care and the ability to effectively call on system resources to provide care that is of optimal value during the rotation

Objectives:
- Ability to work within multidisciplinary outpatient and inpatient settings
- Understand how patient care and other professional practices affect other health care professionals, the health care organization, and society and how these elements of the system affect their practice
- Know how types of medical practice and delivery systems differ from one another, including methods of controlling health care costs and allocating resources
- Practice cost-effective health care and resource allocation that does not compromise quality of care
- Advocate for quality patient care and assist patients in dealing with system complexities
- Know how to collaborate with health care managers and health care providers to assess, coordinate, and improve health care and know how these activities can affect system performance

Measurement: End of rotation evaluation, semi-annual evaluation, peer review

**Practice Based Learning**
Goals: Be able to investigate and evaluate patient care practices, appraise and assimilate scientific evidence, and improve patient care practices in direct relation to the clinical conditions and situations encountered

Objectives:
- Analyze practice experience and perform practice-based improvement activities using a systematic methodology
- Locate, evaluate, and assimilate evidence from scientific studies related to their patients’ health problems
- Apply knowledge of study designs and statistical methods to the appraisal of clinical studies and other information on diagnostic and therapeutic effectiveness gained through journal clubs.
- Use information technology to manage information, access on-line medical information, and support their education.
- Facilitate the learning of students and other health care professionals.

Measurement: End of rotation evaluation, peer review, semi-annual evaluation
**Interpersonal and Communication Skills**
Goals: Resident will at all times demonstrate behavior that is compassionate, respectful, ethical, and professional. Residents must be able to demonstrate interpersonal and communication skills that result in effective information exchange and teaming with their patients, their patients’ families, and professional associates.

Objectives:
- Demonstrate honest, open, civil, and effective communication with patients, staff, and colleagues (medical students, residents, faculty) in orthopaedics and other specialties.
- Create and sustain a therapeutic and ethically sound relationship with patients.
- Use effective listening skills.
- Elicit and provide information using effective nonverbal, explanatory, questioning, and writing skills.
- Work effectively with others as a member or leader of a health care team or other professional group.

Measurement: End of rotation evaluation, peer review, patient feedback, health care professionals, semi-annual evaluation by program director, feedback from faculty

**Professionalism**
Goals: Demonstrate a commitment to carrying out professional responsibilities, adherence to ethical principles, and sensitivity to a diverse patient population during the rotation.

Objectives:
- Demonstrate:
  - Respect, compassion, and integrity
  - Responsiveness to the needs of patients and society that supersedes self-interest
  - Accountability to patients, society, and the profession
  - Commitment to excellence and on-going professional development
  - Demonstrate a commitment to ethical principles pertaining to:
    - Provision or withholding of clinical care
    - Confidentiality of patient information
    - Informed consent
    - Business practices

Measurement: End of rotation evaluation, patient feedback, faculty feedback, semi-annual evaluation

**Procedural Skills**
Goals: At the end of the rotation the residency will have a broad experience in operative skills in the Sports Medicine and general orthopaedic subspecialties. The resident will gain skills and experience that will contribute to the ability to graduate as a competent and independent orthopaedic surgeon.
Objectives:
- Gain operative skills for treating the sports and activity-related and arthritic conditions encountered in this rotation and in a typical orthopaedic surgery practice.

Measurement: Observation by faculty, ACGME case logs

**Trauma & TDCJ Service Rotation**

**PGY4-5 Level**

The residents experience trauma/TDCJ/hand surgery during their PGY4-5 year (UTMB TDCJ rotation). The rotation emphasizes orthopaedic trauma in the emergency room and consults to the orthopaedic surgery service. The service is a general orthopaedic service that meets the orthopaedic needs of the Texas inmates of the Texas Department of Criminal Justice System.

The residents will develop an understanding of and actively participate in a managed care environment on the TDCJ rotation.

Faculty: Drs. Stan Allen, Kelly Carmichael, Ronald Lindsey, Kelly Stephenson.

**Patient Care**

Goal: Our goal is for our residents to provide patient care that is compassionate, appropriate and effective for the treatment of health problems and the promotion of health.

Objectives:
- To develop and demonstrate competence in the evaluation, the nonoperative treatment and operative treatment of general adult orthopaedic conditions to include but not limited by traumatic, degenerative, inflammatory, pathologic, and infection conditions of the musculoskeletal system, and to show proficiency in the diagnosis and nonoperative treatment of orthopaedic conditions.
- Develop and carry out patient management plans and/or counsel and educate patients and their family.
- Ability to perform complete appropriate examination of all major joints and extremities including the axial skeleton in patients with acute and chronic orthopaedic injuries.

Measurement: End of rotation evaluations and semi-annual evaluation by the program director, patient satisfaction surveys

**Medical Knowledge**

Goal: Our goal is for our residents to improve medical knowledge about established and evolving biomedical, clinical and cognate (e.g. epidemiological and social-behavioral) sciences and the application of this knowledge to patient care as related to the Trauma/TDCJ rotation.
Objectives:
- Know how to diagnose and treat general orthopaedic conditions in the TDCJ environment – knowledge of the anatomy and biomechanics of the shoulder, knee, hand and foot.
- Knowledge of early and long-term shoulder, knee, hand and foot rehabilitation, including modalities, exercise and orthotics.
- Demonstrate an investigatory and analytic thinking approach to clinical situations.
- Know and apply the basic and clinically supportive sciences.
- Have the medical knowledge to know operative versus nonoperative management of a general anomalies.
- Have the physical examination skills and knowledge for evaluating imaging studies to aid in the diagnosis of these conditions.
- Knowledge of anatomy and biomechanics of musculoskeletal system.
- Ability to increase knowledge in orthopaedic trauma management.

Measurement: Improved knowledge obtained through the weekly reading assignments in the area of adult reconstruction as assessed by performance on weekly examinations, improved percentile on the OITE.

**System Based Practice and Learning**

Goal: Our goal for our residents is to foster system-based practice with the ability to effectively call on system resources to provide care that is of optimal value; an awareness of and responsiveness to the larger context and system of health care and the ability to effectively call on system resources to provide care that is of optimal value.

Objectives:
- Understanding of and actively participate in a managed care environment on the TDCJ rotation.
- Demonstrate awareness of economic issues of trauma/hand procedures.
- Awareness of health care workers involvement in the care of orthopaedic conditions/consults.
- Practices cost-effective care within the medical system with compromising quality care of the patient.
- Understand correct billing codes for office visits and surgery.
- Chief residents will run the rotation under managed care guidelines in an efficient manner. The residents will be exposed to and demonstrate proficiency in managing patients via remote site evaluation (telemedicine).

Measurement: Semi-annual evaluation by the program director, review of ACGME patient log to be sure the resident is coding procedures, feedback by faculty during rotation.

**Practice Based Learning and Improvement**

Goal: Residents must be able to investigate and evaluate their patient care practices, appraise and assimilate scientific evidence, and improve their patient care practices in direct relation to general orthopaedics/TDCJ population.
Objectives:

- Identify deficiencies in knowledge base and develop independent means to address them
- Perform a literature search to answer clinical questions
- Participate in M&M conference, journal club and UTMB case conferences to increase learning
- Actively participate in research projects

Measurement: Semi-annual evaluation by the program director, review of research by the Research Committee on progress on their research activities, OKU assessments and AAOS Comprehensive Review

Interpersonal and Communication Skills
Goal: Resident will at all times demonstrate behavior that is beyond reproach. Residents must be able to demonstrate interpersonal and communication skills that result in effective information exchange and teaming with their TDCJ patients and general orthopaedic consult patients, their patients’ families, and professional associates. Residents are expected to:

Objectives:

- Demonstrate effective communication skills with patients, staff and colleagues
- Use effective listening skills
- Provide information using effective nonverbal, explanatory and writing skills
- Sustain a therapeutic and ethically sound relationship with patients, staff and colleagues
- Effectively work with others as a member or leader of a health care team or other professional group.

Measurement: Semi-annual evaluation with the program director, feedback from attendings and other members of the health care team.

Professionalism
Goal: Residents must demonstrate a commitment to carrying out professional responsibilities, adherence to ethical principles, and sensitivity to a diverse patient population during their Trauma/TDCJ rotation.

Objectives:

- Demonstrate a commitment to ethical principles relating to confidentiality of patient information, informed consent and business practices.
- Demonstrate respect, compassion and integrity
- Demonstrate sensitivity to patients culture, age, gender and disabilities

Measurement: end of rotation evaluation; semi-annual evaluation by program director
**Procedural Skills**
Goal: The resident at the end of their residency will have a broad experience in operative skills in this area of expertise. The resident will be able to graduate as competent and independent orthopaedic surgeons.

Objectives:
- Develop proficiency in the arthroscopic diagnosis and surgical management of shoulder, knee, elbow, and ankle disorders.
- The chief residents will show proficiency in all aspects of general orthopaedics including joint replacement, ligament reconstruction of the knee, ankle, and shoulder and ORIF of complex fractures.

Measurement: Review of case log procedures, end of rotation evaluation, semi evaluation by program director

**SLEH/Foot Service Rotation**
**Faculty:** Dr. William Granberry/Dr. Roy Smith
**PGY4 Level**

**Patient Care**
Goal: Our goal is for our residents to provide patient care that is compassionate, appropriate and effective for the treatment of health problems and the promotion of health.

Objectives:
- Develop and carry out patient management plans designed for foot and ankle patients and counsel and educate patients and their families: Understanding of the physical examination involved with pathologic foot conditions
- Familiarity with scheduling and planning outpatient surgeries
- Knowledge and understanding of the pathology and typical treatment options for diabetic foot complications.
- Should understand the spectrum of both acute and chronic foot and ankle injuries of all the major joints and axial skeleton.

Measurement: End of rotation evaluations and semi-annual evaluation by the program director, patient satisfaction surveys

**Medical Knowledge**
Goal: Our goal is for our residents to improve medical knowledge about established and evolving biomedical, clinical and cognate (e.g. epidemiological and social-behavioral) sciences and the application of this knowledge to patient care as related to foot and ankle conditions.

Objectives:
- Knowledge of anatomy and biomechanics of the foot and ankle.
- Understanding of the mechanics of foot and ankle pathologic conditions
• Demonstrate an investigatory and analytic thinking approach to clinical situations.
• Know and apply the basic and clinically supportive sciences
• Have the medical knowledge to know operative versus nonoperative management
• Have the physical examination skills and knowledge for evaluating imaging studies to aid in the diagnosis of these conditions.

Measurement: Improved knowledge obtained through the weekly reading assignments in the area of foot and ankle as assessed by performance on weekly examinations, improved percentile in the foot and ankle section on the OITE.

System Based Practice and Learning
Goal: Our goal for our residents is to foster system-based practice with the ability to effectively call on system resources to provide care that is of optimal value; an awareness of and responsiveness to the larger context and system of health care and the ability to effectively call on system resources to provide care that is of optimal value.
Objectives:
• Demonstrate awareness of economic issues of foot and ankle procedures
• Awareness of health care workers involvement in the care of foot and ankle patients and orthopaedic conditions
• Practices cost-effective care within the medical system with compromising quality care of the patient.
• Understand health funding systems including private insurance, Medicare, Medicaid and WCI.
• Understand correct billing codes for office visits and surgery
• Ability to work with a multidisciplinary limb salvage team

Measurement: Semi-annual evaluation by the program director, review of ACGME patient log to be sure the resident is coding procedures, feedback by faculty during rotation.

Practice Based Learning and Improvement
Goal: Residents must be able to investigate and evaluate their patient care practices, appraise and assimilate scientific evidence, and improve their patient care practices in direct relation to foot and ankle problems.
Objectives:
• Identify deficiencies in knowledge base and develop independent means to address them
• Perform a literature search to answer clinical questions
• Participate in M&M conference, journal club and UTMB and SLEH case conferences to increase learning
• Actively participate in research projects

Measurement: Semi-annual evaluation by the program director, review of research by the Research Committee on progress on their research activities, OKU assessments and AAOS Comprehensive Review
**Interpersonal and Communication Skills**

Goal: Resident will at all times demonstrate behavior that is beyond reproach. Residents must be able to demonstrate interpersonal and communication skills that result in effective information exchange and teaming with their foot and ankle patients, their patients families, and professional associates. Residents are expected to:

Objectives:
- Demonstrate effective communication skills with patients, staff and colleagues
- Use effective listening skills
- Provide information using effective nonverbal, explanatory and writing skills
- Sustain a therapeutic and ethically sound relationship with patients, staff and colleagues
- Effectively work with others as a member or leader of a health care team or other professional group.

Measurement: Semi-annual evaluation with the program director, feedback from attendings and other members of the health care team.

**Professionalism**

Goal: Residents must demonstrate a commitment to carrying out professional responsibilities, adherence to ethical principles, and sensitivity to a diverse patient population during their rotation.

Objectives:
- Demonstrate a commitment to ethical principles relating to confidentiality of patient information, informed consent and business practices.
- Demonstrate respect, compassion and integrity
- Demonstrate sensitivity to patients culture, age, gender and disabilities

Measurement: Semi annual evaluation by program director; end of rotation evaluation, feedback from faculty/attendings.

**Procedural Skills**

Goal: The resident at the end of their residency will have a broad experience in operative skills in this area of expertise. The resident will be able to graduate as competent and independent orthopaedic surgeons.

Objectives:
- Experience and competency with common foot and ankle reconstructive procedures
- Knowledge of the surgical techniques and management of common orthopaedic procedures
- Demonstrate increased knowledge in operative procedures
- Increased knowledge during rotation in foot and ankle procedures.

Measurement: Review of case log procedures, end of rotation evaluation, semi evaluation by program director.
SLEH Sports Medicine and Knee & Shoulder Rotation
PGY4 Level

Faculty: Dr. Marc Labbe and Dr. Taylor Brown. Residents rotating on this service during the year: PGY4 level.

Patient Care
Goal: Our goal is for our residents to provide patient care that is compassionate, appropriate and effective for the treatment of health problems and the promotion of health.

Objectives:
- Develop and carry out patient management plans designed for sports medicine, knee and shoulder patients and counsel and educate patients and their families
- Should understand the spectrum of both acute and chronic sports related injuries of all the major joints and axial skeleton in both children and in adults.
- Ability to perform complete appropriate examination of all major joints and extremities including the axial skeleton in patients with acute and chronic sports related injury.

Measurement: End of rotation evaluations and semi-annual evaluation by the program director, patient satisfaction surveys

Medical Knowledge
Goal: Our goal is for our residents to improve medical knowledge about established and evolving biomedical, clinical and cognate (e.g. epidemiological and social-behavioral) sciences and the application of this knowledge to patient care as related to sports medicine/knee and shoulder conditions.

Objectives:
- Residents should know the indications and choices for surgical repair or reconstruction of major sports injuries of the extremities, joints, and axial skeleton in children and in adults.
- Demonstrate an investigatory and analytic thinking approach to clinical situations.
- Know and apply the basic and clinically supportive sciences
- Have the medical knowledge to know operative versus nonoperative management of their patients.
- Have the physical examination skills and knowledge for evaluating imaging studies to aid in the diagnosis of these conditions.

Measurement: Improved knowledge obtained through the weekly reading assignments in the area of sports medicine, knee/shoulder as assessed by performance on weekly examinations, improved percentile in the sports medicine/knee/shoulder section on the OITE.
System Based Practice and Learning
Goal: Our goal for our residents is to foster system-based practice with the ability to effectively call on system resources to provide care that is of optimal value; an awareness of and responsiveness to the larger context and system of health care and the ability to effectively call on system resources to provide care that is of optimal value.

Objectives:
- Demonstrate awareness of economic issues of total joint arthroplasty
- Awareness of health care workers involvement in the care of sports medicine/knee and shoulder
- Practices cost-effective care within the medical system with compromising quality care of the patient.
- Understand health funding systems including private insurance, Medicare, Medicaid and WICL
- Understand correct billing codes for office visits and surgery

Measurement: Semi-annual evaluation by the program director, review of ACGME patient log to be sure the resident is coding procedures, feedback by faculty during rotation.

Practice Based Learning and Improvement
Goal: Residents must be able to investigate and evaluate their patient care practices, appraise and assimilate scientific evidence, and improve their patient care practices in direct relation to sports medicine/knee and shoulder problems.

Objectives:
- Identify deficiencies in knowledge base and develop independent means to address them
- Perform a literature search to answer clinical questions
- Participate in M&M conference, journal club and UTMB and SLEH case conferences to increase learning
- Actively participate in research projects

Measurement: Semi-annual evaluation by the program director, review of research by the Research Committee on progress on their research activities, OKU assessments and AAOS Comprehensive Review

Interpersonal and Communication Skills
Goal: Resident will at all times demonstrate behavior that is beyond reproach. Residents must be able to demonstrate interpersonal and communication skills that result in effective information exchange and teaming with their sports medicine/knee/shoulder patients, their patients families, and professional associates. Residents are expected to:

Objectives:
- Demonstrate effective communication skills with patients, staff and colleagues
- Use effective listening skills
- Provide information using effective nonverbal, explanatory and writing skills
• Sustain a therapeutic and ethically sound relationship with patients, staff and colleagues
• Effectively work with others as a member or leader of a health care team or other professional group.

Measurement: Semi-annual evaluation with the program director, feedback from attendings and other members of the health care team.

Professionalism
Goal: Residents must demonstrate a commitment to carrying out professional responsibilities, adherence to ethical principles, and sensitivity to a diverse patient population during their sports medicine/knee/shoulder rotation.

Objectives:
• Demonstrate a commitment to ethical principles relating to confidentiality of patient information, informed consent and business practices.
• Demonstrate respect, compassion and integrity.
• Demonstrate sensitivity to patients culture, age, gender and disabilities

Procedural Skills
Goal: The resident at the end of their residency will have a broad experience in operative skills in this area of expertise. The resident will be able to graduate as competent and independent orthopaedic surgeons.

Objectives:
• The ability to perform knee arthroplasty
• The ability to perform surgical arthroscopy of the knee for meniscal pathology, patellar malalignment, chondral lesions, and anterior cruciate ligament reconstruction.
• The ability to perform surgical arthroscopy of the shoulder for debridement of rotator cuff tears, subacromial decompression, and thermal capsular shortening.
• The ability to perform open and arthroscopically assisted rotator cuff repair.
• Demonstrate increased knowledge in operative procedures
• Increased knowledge during rotation in procedures regarding sports medicine conditions/knee and shoulder.

Measurement: Review of case log procedures, end of rotation evaluation, semi evaluation by program director

Spine Rotation (UTMB) Rotation
PGY4 Level

Service manages adult spine problems including degenerative diseases, infection, trauma and tumors. Faculty: Dr. Ron Lindsey, Dr. David Yngve, Dr. TJ Jones
**Patient Care**

Goal: Residents must be able to provide patient care that is compassionate, appropriate, and effective for the treatment of health problems with spine related problems and the promotion of health.

Objectives:
- Develop and carry out patient management plans, counsel and educate patients and their families.
- Should be able to adequately assess patients with back problems.
- Should be able to differentiate between operative and nonoperative back
- Should be able to recognize urgent and emergent conditions related to nerve root function, spinal cord function, infection, malignancy, and fracture.
- Perform a focused orthopaedic exam with attention to patient’s complaints and ability

Measurement: Semi-annual evaluation by program director, end of rotation evaluation, peer review

**Medical Knowledge**

Goal: Our goal is for our residents to improve medical knowledge about established and evolving biomedical, clinical and cognate (e.g. epidemiological and social-behavioral) sciences and the application of this knowledge to patient care.

Objectives:
- The resident will be able to appropriately order imaging studies in the correct temporal sequence for patients with back problems.
- Should have adequate knowledge of operative exposure/anatomy of the common approaches to the spine.
- Should be able to apply medical knowledge from recent publications and reading assignments to patient care activities.
- Demonstrate an investigatory and analytic thinking approach to clinical situations.
- Know and apply the basic and clinically supportive sciences

Measurement: End of rotation evaluation, semi-annual evaluation by program director, OITE scores, weekly reading assignment/examination score

**System Based Practice and Learning**

Goal: Residents must demonstrate an awareness of and responsiveness to the larger context and system of health care and the ability to effectively call on system resources to provide care that is of optimal value during their spine rotation. Residents are expected to:

Objectives:
- Understand how their patient care and other professional practices affect other health care professions, the health care organization, and the larger society and how these elements of the system affect their practice.
- Know how types of medical practice and delivery systems differ from one another, including methods of controlling health care costs and allocating resources.
• Practice cost-effective health care and resource allocation that does not compromise quality of care.
• Advocate for quality patient care and assist patients in dealing with system complexities.
• Know how to collaborate with health care managers and health care providers to assess, coordinate, and improve health care and know how these activities can affect system performance.

Measurement: Semi-annual evaluation, peer review, end of rotation evaluation (faculty)

**Practice Based Learning**
Goal: Residents must be able to investigate and evaluate their patient care practices, appraise and assimilate scientific evidence, and improve their patient care practices in direct relation to simple and complex spinal problems.

Objectives:
• Analyze practice experience and perform practice-based improvement activities using a systematic methodology.
• Locate, appraise, and assimilate evidence from scientific studies related to their patients’ health problems.
• Apply knowledge of study designs and statistical methods to the appraisal of clinical studies and other information on diagnostic and therapeutic effectiveness.
• Use information technology to manage information, access on-line medical information, and support their education.
• Facilitate the learning of students and other health care professionals.

Measurement: Semi-annual evaluations by program direction, peer review, OKU assessments

**Interpersonal and Communication Skills**
Goal: Resident will at all times demonstrate behavior that is beyond reproach. Residents must be able to demonstrate interpersonal and communication skills that result in effective information exchange and teaming with their spine patients, their patients families, and professional associates.

Objectives:
• Demonstrate honest, open, civil, and effective communication with patients, staff, and colleagues (medical students, residents, attendings).
• Create and sustain a therapeutic and ethically sound relationship with patients.
• Use effective listening skills.
• Elicit and provide information using effective nonverbal, explanatory, questioning, and writing skills.
• Work effectively with others as a member or leader of a health care team or other professional group.

Measurements: Peer review, end of rotation evaluation by faculty attending, semi-annual evaluation, patient satisfaction results
**Professionalism**
Goal: Residents must demonstrate a commitment to carrying out professional responsibilities, adherence to ethical principles, and sensitivity to a diverse patient population during their spine rotation.

Objectives:
- Demonstrate respect, compassion, and integrity.
- Responsiveness to the needs of patients and society that supersedes self-interest.
- Accountability to patients, society, and the profession.
- Commitment to excellence and on-going professional development.
- Demonstrate a commitment to ethical principles pertaining to clinical care, confidentiality of patient information, informed consent and business practices.
- Demonstrate sensitivity and responsiveness to patients’ culture, age, gender, and disabilities.

Measurements: Peer review, end of rotation evaluation by attending/faculty, semi-annual evaluation by program director.

**Procedural Skills**
Goal: The resident at the end of their residency will have a broad experience in operative skills in this area of expertise. The resident will be able to graduate as competent and independent orthopaedic surgeons.

Objectives:
- Should be able to adequately close wounds.
- Should know and understand the use of and rationale for different operating tables, headrests and skull traction devices and prep and drape patients for spine surgery.

Measurement: ACGME patient case logs

**UTMB Adult Reconstruction Service (AR) Rotation**
**PGY4 Level**

Goal: Residents will become familiar with common and complex adult reconstruction conditions and their treatment at a level sufficient to practice independently as a general orthopaedic surgeon. Faculty: Dr. Kelly Stephenson.

**Patient Care**
Goal: Our goal is for our residents to provide patient care that is compassionate, appropriate and effective for the treatment of health problems and the promotion of health.

Objectives:
- Be able to apply nonoperative treatment to orthopaedic emergencies.
- Understand how to refer in a timely fashion orthopaedic emergencies requiring
Orthopaedic or other emergency care.

- Understand conservative management of extremity trauma and emphasis on pelvis, hip, and upper femur.
- Be able to understand the conservative management of chronic hip disorders.
- Know the preoperative evaluation and planning of prosthetic and nonprosthetic arthroplasties.
- Perform a focused orthopaedic exam with attention to patient’s complaints and ability

Measurement: End of rotation evaluations and semi-annual evaluation by the program director, patient satisfaction surveys

**Medical Knowledge**

Goal: Our goal is for our residents to improve medical knowledge about established and evolving biomedical, clinical and cognate (e.g. epidemiological and social-behavioral) sciences and the application of this knowledge to patient care as related to adult reconstruction.

Objectives:

- Recognize presenting symptoms of common problems associated with the hip, pelvis, knee and femur
- Use diagnostic and therapeutic options appropriately.
- Know the anatomy and biomechanics of the hip and pelvis.
- Know early and long term rehabilitation

Measurement: Improved knowledge obtained through the weekly reading assignments in the area of adult reconstruction as assessed by performance on weekly examinations, improved percentile in the adult reconstruction section on the OITE.

**System Based Practice and Learning**

Goal: Our goal for our residents is to foster system-based practice with the ability to effectively call on system resources to provide care that is of optimal value; an awareness of and responsiveness to the larger context and system of health care and the ability to effectively call on system resources to provide care that is of optimal value.

Objectives:

- Demonstrate awareness of economic issues of total joint arthroplasty
- The awareness of health care workers involvement in the care of total joint patient.
- Resident will practice cost-effective care within the medical system without compromising quality care of the patient.
- Understand health funding systems including private insurance, Medicare, Medicaid and WCI.
- Understand correct billing codes for office visits and surgery

Measurement: Semi-annual evaluation by the program director, review of ACGME patient log to be sure the resident is coding procedures, feedback by faculty during rotation.
Practice Based Learning and Improvement
Goal: Residents must be able to investigate and evaluate their patient care practices, appraise and assimilate scientific evidence, and improve their patient care practices in direct relation to adult reconstruction and hip problems.

Objectives:
- Identify deficiencies in knowledge base and develop independent means to address them
- Perform a literature search to answer clinical questions
- Participate in M&M conferences, journal club and case conferences to increase learning
- Actively participate in research projects

Measurement: Semi-annual evaluation by the program director, review of research by the Research Committee on progress on their research activities, OKU assessments and AAOS Comprehensive Review

Interpersonal and Communication Skills
Goal: Resident will at all times demonstrate behavior that is beyond reproach. Residents must be able to demonstrate interpersonal and communication skills that result in effective information exchange and teaming with their adult reconstruction patients, their patients families, and professional associates. Residents are expected to:

Objectives:
- Demonstrate effective communication skills with patients, staff and colleagues
- Use effective listening skills
- Provide information using effective nonverbal, explanatory and writing skills
- Sustain a therapeutic and ethically sound relationship with patients, staff and colleagues
- Effectively work with others as a member or leader of a health care team or other professional group.

Measurement: Semi-annual evaluation with the program director, feedback from attendings and other members of the health care team.

Professionalism
Goal: Residents must demonstrate a commitment to carrying out professional responsibilities, adherence to ethical principles, and sensitivity to a diverse patient population during their adult reconstruction rotation.

Objectives:
- Demonstrate a commitment to ethical principles relating to confidentiality of patient information, informed consent and business practices.
- Demonstrate respect, compassion and integrity
- Demonstrate sensitivity to patient’s culture, age, gender and disabilities
Measurement: End of rotation evaluation; role modeling of faculty; semi-annual evaluation by program director

**Procedural Skills**
Goal: The resident at the end of their residency will have a broad experience in operative skills in this area of expertise. The resident will be able to graduate as competent and independent orthopaedic surgeons.

Objectives:
- Demonstrate increased knowledge in operative procedures
- The resident will gain increased knowledge during their rotation in procedures regarding hip/pelvis/knee and femur.

Measurement: Review of case log procedures

**Dr. John Kosty Rotation**
**PGY5 Level (General Orthopaedics)**

Faculty: Dr. John Kosty. The service emphasizes the management of acute and chronic orthopaedic problems in the outpatient office setting with use of existing community hospitals / ASCs. Exposure to fracture management is gleaned from assigned on-call coverage one on one with the attending physician, and from ED or primary care referrals to the orthopaedic office. Residents have exposure to general orthopaedics at the League City office, Christus St. John Hospital, HCA Bay Area Surgery Center, and UTMB Victory Lakes Specialty Center.

**Patient Care**
Goal: Residents must be able to provide patient care that is compassionate, appropriate, and effective for the treatment of health problems with shoulder and general orthopaedic and shoulder problems and the promotion of health.

Objectives:
- Develop and carry out patient management plans, counsel and educate patients and their families.
- Consistency of patient care in the inpatient and outpatient environment
- Emphasis on logical decision making regarding treatment approach to commonly seen pediatric and adult fractures, acquired adult diseases and disorders, especially arthritis.

Measurement: End of rotation evaluation, patient input, semi-annual evaluation by program director.

**Medical Knowledge**
Goal: Must demonstrate knowledge regarding general orthopaedic problems about established and evolving biomedical, clinical, and cognate (e.g. epidemiological) sciences and the application of this knowledge to patient care. Residents are expected to:
Objectives:
- Demonstrate an investigatory and analytic thinking approach to clinical situations.
- Know and apply the basic and clinically supportive sciences
- Knowledge of surgical techniques including joint arthroplasty, arthroscopy of the knee and shoulder, hand surgery for traumatic and acquired conditions, operative fracture management, and various other general orthopaedic surgery procedures.

Measurements: End of rotation evaluation, semi-annual evaluation by program director, weekly reading assignment evaluation, OITE scores

System Based Practice and Learning
Goal: Our goal for our residents is to foster system-based practice with the ability to effectively call on system resources to provide care that is of optimal value; an awareness of and responsiveness to the larger context and system of health care and the ability to effectively call on system resources to provide care that is of optimal value.

Objectives:
- Understand how their patient care and other professional practices affect other health care professions, the health care organization, and the larger society and how these elements of the system affect their practice.
- Know how types of medical practice and delivery systems differ from one another, including methods of controlling health care costs and allocating resources.
- Practice cost-effective health care and resource allocation that does not compromise quality of care.
- Advocate for quality patient care and assist patients in dealing with system complexities.
- Know how to collaborate with health care managers and health care providers to assess, coordinate, and improve health care and know how these activities can affect system performance.
- System based practice management with use of community facilities similar to that experienced in the private practice environment
- Emphasis on logical decision making regarding treatment approach to commonly seen pediatric and adult fractures, acquired adult diseases and disorders, especially arthritis.

Measurement: End of rotation evaluation, semi annual evaluation by program director

Practice Based Learning and Improvement
Goal: Residents must be able to investigate and evaluate their patient care practices, appraise and assimilate scientific evidence, and improve their patient care practices in direct relation to general orthopaedics and shoulder patients.

Objective:
- Analyze practice experience and perform practice-based improvement activities using a system methodology.
• Locate, appraise, and assimilate evidence from scientific studies related to their patients' health problems.
• Apply knowledge of study designs and statistical methods to the appraisal of clinical studies and other information on diagnostic and therapeutic effectiveness.
• Use information technology to manage information, access on-line medical information, and support their education.
• Facilitate the learning of students and other health care professionals.
• Expand skills by participating in sawbone workshops to practice/learn new skills.

Measurement: Semi annual evaluation by program director, end of rotation evaluation, OITE scores

**Interpersonal and Communication Skills**
Goal: Resident will at all times demonstrate behavior that is beyond reproach. Residents must be able to demonstrate interpersonal and communication skills that result in effective information exchange and teaming with their patients families, and professional associates.

Objectives:
• Demonstrate honest, open, civil, and effective communication with patients, staff, and colleagues (medical students, residents, attendings).
• Create and sustain a therapeutic and ethically sound relationship with patients.
• Use effective listening skills.
• Elicit and provide information using effective nonverbal, explanatory, questioning, and writing skills.
• Work effectively with others as a member or leader of a health care team or other professional group.

Measurement: Semi-annual evaluation by program director, feedback from faculty/attending, end of rotation evaluation.

**Professionalism**
Goal: Residents must demonstrate a commitment to carrying out professional responsibilities, adherence to ethical principles, and sensitivity to a diverse patient population during their rotation with Dr. Kosty.

Objectives:
• Demonstrate respect, compassion, and integrity.
• A responsiveness to the needs of patients and society that supersedes self-interest.
• Accountability to patients, society, and the profession.
• Commitment to excellence and on-going professional development.
• Demonstrate a commitment to ethical principles pertaining to clinical care: Provision or withholding of clinical care, Confidentiality of patient information, Informed consent, Business practices.
- Demonstrate sensitivity and responsiveness to patients’ culture, age, gender, and disabilities

Measurement: End of rotation evaluation, semi-annual evaluation by program director, peer review

**Procedural Skills**
Goal: The resident at the end of their residency will have a broad experience in operative skills in this area of expertise. The resident will be able to graduate as competent and independent orthopaedic surgeons.

Objectives:
- Additional hands-on experience with a multitude of diagnostic and therapeutic joint injections in the office environment

Measurement: ACGME procedure logs, semi-annual evaluation by program director

**Pediatric Orthopaedic Surgery Rotation**

**PGY5 Level**
Faculty: Dr. Kelly Carmichael and Dr. David Yngve

**Patient Care**
Goals: Residents must be able to provide patient care that is compassionate, appropriate, and effective for the treatment of health problems with pediatric orthopaedic problems and the promotion of health.

Objectives:
- Develop and carry out patient management plans, counsel and educate patients and their families.
- Knowledge how to diagnose and treat pediatric orthopaedic conditions that are appropriately cared for by orthopaedic surgeons in pediatric orthopaedic practice.
- Know how to recognize complex pediatric problems that require specialist care.

Measurement: ACGME case logs, end of rotation evaluation, patient feedback, semi-annual evaluation, peer review

**Medical Knowledge**
Goal: Must demonstrate knowledge regarding pediatric orthopaedic problems about established and evolving biomedical, clinical, and cognate (e.g. epidemiological) sciences and the application of this knowledge to patient care. Residents are expected to:

Objectives:
- Demonstrate an investigatory and analytic thinking approach to clinical situations.
- Know and apply the basic and clinically supportive sciences
- Have the medical knowledge to know operative versus nonoperative management of a pediatric condition.
• Have the physical examination skills and knowledge for evaluating imaging studies to aid in the diagnosis of these conditions.

Measurement: End of rotation evaluation, semi-annual evaluation, feedback from faculty/attending, OITE scores, weekly reading assignment/examination.

**System Based Practice and Learning**
Goal: Residents must demonstrate an awareness of and responsiveness to the larger context and system of health care and the ability to effectively call on system resources to provide care that is of optimal value during pediatric orthopaedic rotation.

Objectives:
• Understand how their patient care and other professional practices affect other health care professions, the health care organization, and the larger society and how these elements of the system affect their practice.
• Know how types of medical practice and delivery systems differ from one another, including methods of controlling health care costs and allocating resources.
• Practice cost-effective health care and resource allocation that does not compromise quality of care.
• Advocate for quality patient care and assist patients in dealing with system complexities.
• Know how to collaborate with health care managers and health care providers to assess, coordinate, and improve health care and know how these activities can affect system performance.

Measurement: End of rotation evaluation, semi-annual evaluation, peer review

**Practice Based Learning**
Goal: Residents must be able to investigate and evaluate their pediatric patient care practices, appraise and assimilate scientific evidence, and improve their patient care practices in direct relation to pediatric orthopaedic problems.

Objectives:
• Analyze practice experience and perform practice-based improvement activities using a systematic methodology.
• Locate, appraise, and assimilate evidence from scientific studies related to their patients' health problems during research.
• Apply knowledge of study designs and statistical methods to the appraisal of clinical studies and other information on diagnostic and therapeutic effectiveness gained through journal clubs.
• Use information technology to manage information, access on-line medical information, and support their education.
• Facilitate the learning of students and other health care professionals.

Measurement: End of rotation evaluation, peer review, semi-annual evaluation
Interpersonal and Communication Skills
Goal: Resident will at all times demonstrate behavior that is beyond reproach. Residents must be able to demonstrate interpersonal and communication skills that result in effective information exchange and teaming with their pediatric orthopaedic patients, their patients families, and professional associates.

Objectives:
- Demonstrate honest, open, civil, and effective communication with patients, staff, and colleagues (medical students, residents, attendings).
- Create and sustain a therapeutic and ethically sound relationship with patients.
- Use effective listening skills.
- Elicit and provide information using effective nonverbal, explanatory, questioning, and writing skills.
- Work effectively with others as a member or leader of a health care team or other professional group.

Measurement: End of rotation evaluation, peer review, patient feedback, health care professionals, semi annual evaluation by program director, feedback from attending/faculty

Professionalism
Goal: Residents must demonstrate a commitment to carrying out professional responsibilities, adherence to ethical principles, and sensitivity to a diverse patient population during their pediatric orthopaedic rotation.

Objectives:
- Demonstrate respect, compassion, and integrity.
- A responsiveness to the needs of patients and society that supersedes self-interest
- Accountability to patients, society, and the profession
- Commitment to excellence and on-going professional development.
- Demonstrate a commitment to ethical principles pertaining to clinical care, patient information, informed consent and business practices.
- Demonstrate sensitivity and responsiveness to patients’ culture, age, gender, and disabilities.

Measurement: End of rotation evaluation, patient feedback, faculty/attending feedback, semi annual evaluation.

Procedural Skills
Goals: The resident at the end of their residency will have a broad experience in operative skills in this area of expertise. The resident will be able to graduate as competent and independent orthopaedic surgeons.

Objectives:
- The resident will develop the skills to reduce common fractures and apply appropriate splints and casts.
- Adequate number of pediatric orthopaedic procedures logged during rotation
• Have operative skills for treating pediatric orthopaedic conditions which are appropriately cared for by general orthopaedic surgeons in practice.

Measurement: Observation by attending/faculty, ACGME case logs

**Trauma Rotation (UTMB) Rotation**

**PGY5 Level**

The service emphasizes the acute and chronic care of patients with traumatic injuries at both on and off Island facilities (UTMB, Mainland, St. John’s Hospital, Memorial Hermann Southeast and St. Luke’s Episcopal Hospital). The patient population includes adults, pediatric and geriatric patients. The disorders to be managed include any and all fractures or post fracture complications involving the upper extremity, lower extremity, pelvis. The faculty for this rotation: Dr. Ron Lindsey, Dr. John Kosty, Dr. Carmichael, Dr. Brian Smith, Dr. Kenneth Brooks and Dr. Thomas Jones.

Educational Objectives:
To increase the resident’s knowledge and ability in the following areas:

**Patient Care**
Goals: Residents must be able to provide patient care that is compassionate, appropriate, and effective for the treatment of health problems with trauma conditions/problems and the promotion of health.

Objectives:
• Develop and carry out patient management plans, counsel and educate patients and their families.
• Be able to recognize complex and simple trauma conditions

Measurement: ACGME case logs, end of rotation evaluation, patient feedback, semi-annual evaluation, peer review

**Medical Knowledge**
Goal: Must demonstrate knowledge regarding trauma conditions/problems about established and evolving biomedical, clinical, and cognate (e.g. epidemiological) sciences and the application of this knowledge to patient care. Residents are expected to:

Objectives:
• Knowledge of anatomy and biomechanics of the upper extremity, lower extremity and pelvis
• Knowledge of the early evaluation and management of acute injuries
• Knowledge of the non operative management of select traumatic musculoskeletal conditions.
• Knowledge of the surgical techniques for managing acute and / or chronic musculoskeletal traumatic conditions
• Knowledge of early or immediate inpatient care of patients with acute or chronic traumatic conditions
• Knowledge of the early and long term rehabilitation modalities for patients with acute and / or chronic traumatic conditions.

Measurement: End of rotation evaluation, semi-annual evaluation, feedback from faculty/attending, OITE scores, weekly reading assignment/examination,

**System Based Practice and Learning**
Goal: Residents must demonstrate an awareness of and responsiveness to the larger context and system of health care and the ability to effectively call on system resources to provide care that is of optimal value during the resident trauma rotation.

Objectives:
• Ability to work within a multidisciplinary trauma setting
• Understand how their patient care and other professional practices affect other health care professions, the health care organization, and the larger society and how these elements of the system affect their practice.
• Know how types of medical practice and delivery systems differ from one another, including methods of controlling health care costs and allocating resources.
• Practice cost-effective health care and resource allocation that does not compromise quality of care.
• Advocate for quality patient care and assist patients in dealing with system complexities.
• Know how to collaborate with health care managers and health care providers to assess, coordinate, and improve health care and know how these activities can affect system performance.

Measurement: End of rotation evaluation, semi-annual evaluation, peer review

**Practice Based Learning**
Goal: Residents must be able to investigate and evaluate their patient care practices, appraise and assimilate scientific evidence, and improve their patient care practices in direct relation to trauma setting/conditions/problem.

Objectives:
• Analyze practice experience and perform practice-based improvement activities using a systematic methodology.
• Locate, appraise, and assimilate evidence from scientific studies related to their patients’ health problems during research
• Apply knowledge of study designs and statistical methods to the appraisal of clinical studies and other information on diagnostic and therapeutic effectiveness gained through journal clubs.
• Use information technology to manage information, access on-line medical information, and support their education.
• Facilitate the learning of students and other health care professionals.
Measurement: End of rotation evaluation, peer review, semi-annual evaluation

**Interpersonal and Communication Skills**
Goal: Resident will at all times demonstrate behavior that is beyond reproach. Residents must be able to demonstrate interpersonal and communication skills that result in effective information exchange and teaming with their trauma patients, their patients families, and professional associates.

Objectives:
- Demonstrate honest, open, civil, and effective communication with patients, staff, and colleagues (medical students, residents, attendings).
- Create and sustain a therapeutic and ethically sound relationship with patients.
- Use effective listening skills.
- Elicit and provide information using effective nonverbal, explanatory, questioning, and writing skills.
- Work effectively with others as a member or leader of a health care team or other professional group.

Measurement: End of rotation evaluation, peer review, patient feedback, health care professionals, semi annual evaluation by program director, feedback from attending/faculty

**Professionalism**
Goal: Residents must demonstrate a commitment to carrying out professional responsibilities, adherence to ethical principles, and sensitivity to a diverse patient population during their trauma rotation.

Objectives:
- Demonstrate respect, compassion, and integrity.
- A responsiveness to the needs of patients and society that supersedes self-interest.
- Accountability to patients, society, and the profession.
- Commitment to excellence and on-going professional development.
- Demonstrate a commitment to ethical principles pertaining to:
  - Provision or withholding of clinical care.
  - Confidentiality of patient information.
  - Informed consent.
  - Business practices.

Measurement: End of rotation evaluation, patient feedback, faculty/attending feedback, semi annual evaluation.
**Procedural Skills**
Goals: The resident at the end of their residency will have a broad experience in operative skills in this area of expertise. The resident will be able to graduate as competent and independent orthopaedic surgeons.

Objectives:
- Have operative skills for treating various trauma procedures which are appropriately cared for by general orthopaedic surgeons in practice.

Measurement: Observation by attending/faculty, ACGME case logs

**UTMB Elective Rotation**
PGY5 Level

The PGY5 is permitted construct an elective rotation to address any clinical subspecialty deficiencies that they possess or to gain additional expertise and enhance their medical knowledge base in a subspecialty area of interest. This rotation has to be presented to Drs. Lindsey and Carmichael for their approval.

The attending/mentor during their rotation is expected to adhere to all of the policies that govern the rotations and should emphasize all core competencies.

Educational objectives:
To enhance the resident's medical knowledge and experience in an area of interest or where they feel deficient.

**Patient Care**
Goals: Residents must be able to provide patient care that is compassionate, appropriate, and effective for the treatment of health problems with orthopaedic conditions/problems and the promotion of health.
Objectives:
- Develop and carry out patient management plans, counsel and educate patients and their families.

Measurement: ACGME case logs, end of rotation evaluation, patient feedback, semi-annual evaluation, peer review

**Medical Knowledge**
Goal: Must demonstrate knowledge regarding orthopaedic conditions (specific to their elective rotation) about established and evolving biomedical, clinical, and cognate (e.g. epidemiological) sciences and the application of this knowledge to patient care. Residents are expected to:

Objectives:
- Demonstrate an investigatory and analytic thinking approach to clinical situations.
• Know and apply the basic and clinically supportive sciences that are appropriate to clinical situations.

Measurement: End of rotation evaluation, semi-annual evaluation, feedback from faculty/attending, OITE scores, weekly reading assignment/examination.

**System Based Practice and Learning**
Goal: Residents must demonstrate an awareness of and responsiveness to the larger context and system of health care and the ability to effectively call on system resources to provide care that is of optimal value during the resident elective rotation.

Objectives:
• Ability to work within a multidisciplinary trauma setting
• Understand how their patient care and other professional practices affect other health care professions, the health care organization, and the larger society and how these elements of the system affect their practice.
• Know how types of medical practice and delivery systems differ from one another, including methods of controlling health care costs and allocating resources.
• Practice cost-effective health care and resource allocation that does not compromise quality of care.
• Advocate for quality patient care and assist patients in dealing with system complexities.
• Know how to collaborate with health care managers and health care providers to assess, coordinate, and improve health care and know how these activities can affect system performance.

Measurement: End of rotation evaluation, semi-annual evaluation, peer review

**Practice Based Learning**
Goal: Residents must be able to investigate and evaluate their patient care practices, appraise and assimilate scientific evidence, and improve their patient care practices in direct relation to the resident elective setting/conditions/problem.

Objectives:
• Analyze practice experience and perform practice-based improvement activities using a systematic methodology.
• Locate, appraise, and assimilate evidence from scientific studies related to their patients’ health problems during research
• Apply knowledge of study designs and statistical methods to the appraisal of clinical studies and other information on diagnostic and therapeutic effectiveness gained through journal clubs.
• Use information technology to manage information, access on-line medical information, and support their education.
• Facilitate the learning of students and other health care professionals.

Measurement: End of rotation evaluation, peer review, semi-annual evaluation
Interpersonal and Communication Skills
Goal: Resident will at all times demonstrate behavior that is beyond reproach. Residents must be able to demonstrate interpersonal and communication skills that result in effective information exchange and teaming with their orthopaedic patients, their patients families, and professional associates.

Objectives:
- Demonstrate honest, open, civil, and effective communication with patients, staff, and colleagues (medical students, residents, attendings).
- Create and sustain a therapeutic and ethically sound relationship with patients.
- Use effective listening skills.
- Elicit and provide information using effective nonverbal, explanatory, questioning, and writing skills.
- Work effectively with others as a member or leader of a health care team or other professional group.

Measurement: End of rotation evaluation, peer review, patient feedback, health care professionals, semi annual evaluation by program director, feedback from attending/faculty

Professionalism
Goal: Residents must demonstrate a commitment to carrying out professional responsibilities, adherence to ethical principles, and sensitivity to a diverse patient population during their elective rotation.

Objectives:
- Demonstrate respect, compassion, and integrity.
- A responsiveness to the needs of patients and society that supersedes self-interest.
- Accountability to patients, society, and the profession.
- Commitment to excellence and on-going professional development.
- Demonstrate a commitment to ethical principles pertaining to clinical situations.
- Demonstrate sensitivity and responsiveness to patients’ culture, age, gender, and disabilities.

Measurement: End of rotation evaluation, patient feedback, faculty/attending feedback, semi annual evaluation.

Procedural Skills
Goals: The resident at the end of their residency will have a broad experience in operative skills in this area of expertise. The resident will be able to graduate as competent and independent orthopaedic surgeons.

Objectives:
- Have operative skills for treating various orthopaedic procedures in relation to their elective rotation which are appropriately cared for by general orthopaedic surgeons in practice.
Measurement: Observation by attending/faculty, ACGME case logs

**UTMB Sports Medicine, Knee & Shoulder Rotation**  
**PGY1 Level**

**Patient Care**  
Goal: Residents must be able to provide patient care that is compassionate, appropriate, and effective for the treatment of health problems in the area of sports medicine, knee and shoulder injuries and the promotion of health. Faculty: Dr. Brian Smith

Objectives:
- Develop and carry out patient management plans designed for sports medicine, knee and shoulder patients and counsel and educate patients and their families
- Should understand the spectrum of both acute and chronic sports related injuries of all the major joints and axial skeleton in adults.
- Ability to perform complete appropriate examination of all major joints and extremities including the axial skeleton in patients with acute and chronic sports related injury.

Measurement: Semi-annual evaluation of the program director, direct feedback by faculty/attending, patient satisfaction feedback.

**Medical Knowledge**  
Goal: Goal is for our residents to improve medical knowledge regarding sports medicine/knee and shoulder injuries in relation to established and evolving biomedical, clinical and cognate (e.g. epidemiological and social-behavioral) sciences and the application of this knowledge to patient care.

Objectives:
- Participate in the evaluation and management of patients in clinics and surgery
- Commitment to understanding and keep current with weekly reading assignments
- Demonstrate an investigatory and analytic thinking approach to clinical situations
- Knowledge of the anatomy and biomechanics of the knee and shoulder.

Measurement: Improved knowledge obtained through the weekly reading assignments in the area of sports medicine as assessed by performance on weekly examinations, improved percentile in the sports medicine, knee & shoulder sections on the OITE.

**System Based Practice and Learning**  
Goal: Our goal for our residents is to foster system-based practice with the ability to effectively call on system resources to provide care that is of optimal value; an awareness of and responsiveness to the larger context and system of health care and the ability to effectively call on system resources to provide care that is of optimal value during their sports medicine/knee and shoulder service:

Objectives:
• Participate and understand the role of multidisciplinary care for the management of patients with sports medicine, knee and shoulder problems.
• Understand how their patient care and other practices affect other health care professions and how these elements affect their practice.
• Practice cost-effective health care and resource allocation that does not compromise quality of care.
• Understand appropriate referrals

Measurement: Semi-annual evaluation with program director, peer review, end of rotation evaluation

**Practice Based Learning Improvement**
Goals: Residents must be able to investigate and evaluate their patient care practices, appraise and assimilate scientific evidence, and improve their patient care practices in direct relation to sports medicine/knee and shoulder conditions.

Objectives:
• Analyze practice experience and perform practice-based improvement activities using a systematic methodology.
• Participate in journal club, M&M and case presentations
• Participate in saw bone and cadaver workshops to increase learning skills.

Measurement: Semi-annual evaluation with program director, end of rotation evaluation, peer review

**Interpersonal and Communication Skills**
Goal: Resident will at all times demonstrate behavior that is beyond reproach. Residents must be able to demonstrate interpersonal and communication skills that result in effective information exchange and teaming with their sports medicine/knee and shoulder patients, their patients families, and professional associates.

Objectives:
• Demonstrate honest, open and effective communication with patients, staff and colleagues (medical students, residents, faculty)
• Create and sustain an ethically sound relationship with patients.
• Develop and use effective listening skills.
• Work effectively with others as a member or leader of a health care team or professional group.

Measurement: Semi-annual evaluation with program director, end of rotation evaluation, peer reviews

**Professionalism**
Goals: Residents must demonstrate a commitment to carrying out professional responsibilities, adherence to ethical principles, and sensitivity to a diverse patient population during their sports medicine/knee and shoulder rotation. Residents are expected to:
Objectives:
- Demonstrate respect, compassion, and integrity.
- Responsiveness to the needs of patients and society that supersedes self-interest.
- Accountability to patients, society, and the profession.
- Commitment to excellence and on-going professional development.
- Demonstrate a commitment to ethical principles pertaining to clinical care (confidentiality of patient information, informed consent and business practice).
- Demonstrate sensitivity and responsiveness to patients’ culture, age, gender, and disabilities.

Measurement: Semi-annual evaluation by program director, end of rotation evaluation, peer review

**Procedural Skills**
Goal: The resident at the end of their residency will have a broad experience in operative skills in this area of expertise. The resident will be able to graduate as competent and independent orthopaedic surgeons.

Objective:
- Knowing and understanding procedures by reading about different approaches prior to surgery
- Demonstrate increased knowledge in operative procedures
- The resident will gain increased knowledge during rotation in procedures regarding sports medicine/knee/shoulder injuries.

Measurement: Review of case log procedures, end of rotation evaluations

**UTMB Adult Reconstruction Service (AR) Rotation**
**PGY1 Level**

Goal: Residents will become familiar with common and complex adult reconstruction conditions and their treatment at a level sufficient to practice independently as a general orthopaedic surgeon. Faculty: Dr. Kelly Stephenson.

**Patient Care**
Goal: Our goal is for our residents to provide patient care that is compassionate, appropriate and effective for the treatment of health problems and the promotion of health.

Objectives:
- Be able to apply nonoperative treatment to orthopaedic emergencies.
- Understand how to refer in a timely fashion orthopaedic emergencies requiring Orthopaedic or other emergency care.
- Understand conservative management of extremity trauma and emphasis on pelvis, hip, and upper femur.
- Be able to understand the conservative management of chronic hip disorders.
- Know the preoperative evaluation and planning of prosthetic and nonprosthetic arthroplasties.
- Perform an orthopaedic exam with attention to patient’s complaints and ability

Measurement: End of rotation evaluations and semi-annual evaluation by the program director, patient satisfaction surveys

**Medical Knowledge**
Goal: Our goal is for our residents to improve medical knowledge about established and evolving biomedical, clinical and cognate (e.g. epidemiological and social-behavioral) sciences and the application of this knowledge to patient care as related to adult reconstruction.

Objectives:
- Recognize presenting symptoms of common problems associated with the hip, pelvis, knee and femur
- Use diagnostic and therapeutic options appropriately.
- Know the anatomy and biomechanics of the hip and pelvis.

Measurement: Improved knowledge obtained through the weekly reading assignments in the area of adult reconstruction as assessed by performance on weekly examinations, improved percentile in the adult reconstruction section on the OITE.

**System Based Practice and Learning**
Goal: Our goal for our residents is to foster system-based practice with the ability to effectively call on system resources to provide care that is of optimal value; an awareness of and responsiveness to the larger context and system of health care and the ability to effectively call on system resources to provide care that is of optimal value.

Objectives:
- Demonstrate awareness of economic issues of total joint arthroplasty
- The awareness of health care workers involvement in the care of total joint patient.
- Resident will practice cost-effective care within the medical system without compromising quality care of the patient.
- Understand health funding systems including private insurance, Medicare, Medicaid and WCI.
- Understand correct billing codes for office visits and surgery

Measurement: Semi-annual evaluation by the program director, review of ACGME patient log to be sure the resident is coding procedures, feedback by faculty during rotation.
**Practice Based Learning and Improvement**
Goal: Residents must be able to investigate and evaluate their patient care practices, appraise and assimilate scientific evidence, and improve their patient care practices in direct relation to adult reconstruction and hip problems.

Objectives:
- Identify deficiencies in knowledge base and develop independent means to address them
- Perform a literature search to answer clinical questions
- Participate in M&M conferences, journal club and case conferences to increase learning
- Actively participate in research projects

Measurement: Semi-annual evaluation by the program director, review of research by the Research Committee on progress on their research activities, OKU assessments and AAOS Comprehensive Review

**Interpersonal and Communication Skills**
Goal: Resident will at all times demonstrate behavior that is beyond reproach. Residents must be able to demonstrate interpersonal and communication skills that result in effective information exchange and teaming with their adult reconstruction patients, their patients families, and professional associates. Residents are expected to:

Objectives:
- Demonstrate effective communication skills with patients, staff and colleagues
- Use effective listening skills
- Provide information using effective nonverbal, explanatory and writing skills
- Sustain a therapeutic and ethically sound relationship with patients, staff and colleagues
- Effectively work with others as a member or leader of a health care team or other professional group.

Measurement: Semi-annual evaluation with the program director, feedback from attendings and other members of the health care team.

**Professionalism**
Goal: Residents must demonstrate a commitment to carrying out professional responsibilities, adherence to ethical principles, and sensitivity to a diverse patient population during their adult reconstruction rotation.

Objectives:
- Demonstrate a commitment to ethical principles relating to confidentiality of patient information, informed consent and business practices.
- Demonstrate respect, compassion and integrity
- Demonstrate sensitivity to patient’s culture, age, gender and disabilities
Measurement: End of rotation evaluation; role modeling of faculty; semi-annual evaluation by program director

**Procedural Skills**
Goal: The resident at the end of their residency will have a broad experience in operative skills in this area of expertise. The resident will be able to graduate as competent and independent orthopaedic surgeons.

Objectives:
- Demonstrate increased knowledge in operative procedures throughout the rotation, progression in knowledge base throughout the rotation.
- The resident will gain increased knowledge during their rotation in procedures regarding hip/pelvis/knee and femur.

Measurement: Review of case log procedures

**Orthopaedic Surgery/Anesthesia Rotation**

**PGY1 Level**

**Rotation Goal:**
The purpose of the rotation is to gain experience with diverse cases in various surgical fields including general surgery, orthopaedics, urology, gynecology, plastics, ophthalmology, and oral surgery.

Objectives:

**Patient Care**
Residents are expected to:
- Perform a thorough history and physical examination, chart review, and pertinent lab results on all patients prior to induction of anesthesia
- Develop an anesthetic care plan and present this plan clearly and concisely to faculty the day before the scheduled cases.
- Assist in setting up the assigned operating room, perform a machine check and assure all necessary equipment is available each morning.
- Be vigilant and aware of changes in homeostasis throughout the perioperative period including PACU and ICU course and make appropriate diagnostic and therapeutic decisions.
- To perform procedures using universal precautions and proper technique while maintaining safe and organized workspace
- Fully explain the risks and benefits of general anesthesia and monitored anesthesia care to all patients in terms that patients can understand
- Be sensitive to patient anxiety and fear and establish a therapeutic relationship with patients.
Medical Knowledge
Residents are expected to:

- Be resourceful and explain mechanisms and significance of co-existing disease
- Understand and use the difficulty airway algorithm to maintain control of the airway
- Develop an anesthetic care plan that considers the patient’s co-existing diseases and surgical conditions
- Understand the pharmacology of muscle relaxants, induction agents and volatile anesthetics
- Recognize the limitations and indication of various monitored anesthetic care techniques
- Understand the common types of anesthesia breathing systems including the advantages and disadvantages of each.
- Understand and be able to select monitors for necessary for each surgical patient.

Practice Based Learning and Improvement
Residents are expected to:

- Critically evaluate his/her performance in an objective fashion
- Use clinical experience to indentify practice features that can be improved
- Modify practice based on experience
- Justify clinical choices scientifically
- Read regularly and assimilate new knowledge into patient care
- Locate and appraise scientific studies to guide patient care

Interpersonal and Communication Skills:
Patient care requires effective communication and interpersonal skills.
Residents are expected to:

- Be respectful and establish a therapeutic and ethically good rapport with the patient and/or the patient’s family
- Be sensitive to the patient’s needs and anxiety and inform the patient of anesthetic risks, benefits and choices in a manner the patient can understand
- Effectively communicate with all members of the perioperative team
- Provide a clear, concise and legible medical record

Professionalism:
Residents are expected to:

- Consistently demonstrate compassion for patients and their families
- Places patients’ needs above one’s own
- Consistently demonstrates respect for the medical profession through his/her behavior characterized by dependability, respect for colleagues, dignity and maintaining proper decorum in the work place
- Demonstrates accountability for their actions to the patient, profession, and society
- Demonstrates commitment to ethical principles and patient confidentiality

Systems Based Practice
Residents are expected to:

- Demonstrate knowledge of how their actions impact future care to a given patient
•Demonstrate knowledge and concern for cost-effective patient care
•Demonstrate awareness and responsiveness to the larger context of health care
•Effectively use a systematic approach to reduce errors

Measurement: Residents are evaluated at the end of their rotation by the anesthesiology faculty attending.

Neurosurgery Rotation
PGY1 Level

Goals of the Rotation:
The PGY1 year is divided into six months of general surgery and 6 months of orthopaedic surgery rotations. The neurosurgery rotation is for one month. The goals of all the rotations in the first post-graduate year are for the residents to develop the knowledge, attitudes and skills needed to formulate principles and assess plan and initiate treatment of patients with surgical and medical problems. They are expected to participate in the pre-, intra-, and post-operative care of surgical patients. They are also expected to develop basic surgical skills, and understanding of surgical anesthesia, including anesthetic and neurosurgical risks.

Patient Care:
Residents are expected to:
•Demonstrate the ability to effectively manage fluids, electrolytes, and nutrition in the adult, postoperative patient
•Demonstrate the ability to effectively manage pain in the postoperative neurosurgical patient
•Demonstrate the ability to manage postoperative fever and the indications for further work up in the postoperative patient.

Medical Knowledge:
Residents are expected to:
•Describe the anatomy of the cranial nerves and common cranial neuropathies seen in clinic
•Describe the neural foramina of the skull base and their contents
•Discuss the annulus of Zinn and the contents of the superior orbital fissure
•Discuss vascular anatomy of the head and neck from the aortic root to the tertiary branches of the named vessels of the cerebral arteries.
•Discuss the venous drainage of the brain
•Discuss salutatory conduction and membrane potentials
•Discuss circulatory physiology and its disruption in sepsis and shock.
•Discuss pulmonary physiology and the pathophysiology of pulmonary edema and ARDS
•Discuss entrapment neuropathies of the ulnar, median, peroneal, and lateral femoral cutaneous nerves

Professionalism:
Residents are expected to:
• Timely attendance at conferences
• Timely attendance and participation in daily rounds
• Maintain rapport with other members of the health care team
• Discussion of lapses in professionalism at weekly meetings
• Maintain honesty in all professional and personal matters

• Self reporting of fatigue in order to ensure the highest level of patient safety

**Interpersonal and Communication Skills:**
• Communicate effectively with nursing and ancillary staff regarding the plan of care for each patient.
• Communicate effectively with patients' families regarding the disease process care plan and prognosis.
• Communicate effectively with co-managing teams and consultants

**Practice Based Learning**
Residents are expected to:
• Daily teaching rounds on the wards/ICU
• Identify a procedure and keep track of certain parameters and identify procedures or techniques useful in the enhancement of procedure performance
• Demonstrate knowledge of and competency in adequate medical record documentation requirements for in- and out-patients

**Systems Based Practice**
Residents are expected to:
• Demonstrate competency in EMR documentation in the in- and out-patient setting.
• Demonstrate the ability to comply with work hour requirements and document that compliance in a timely fashion
• Complete evaluations in a timely fashion.

Measurement: Residents will be evaluated by neurosurgery faculty attending at the end of the rotation.

**Acute Burn Surgery Rotation**
**PGY1 Level**

**Patient Care:**
Goal: The resident will provide patient care that is compassionate, appropriate, and effective for the treatment of burn patients.

Objectives:
• Perform burn wound debridement and preparation for skin grafting
• Perform split thickness skin grafts
• Perform full thickness skin grafts
• Utilize skin substitutes, biological dressings, allografts, and xenografts in the treatment of burn wounds.

**Medical Knowledge:**
Goal: The resident will achieve a detailed knowledge of the evaluation and management of burn patients.
Objectives:
• Discuss the techniques of resuscitation of major burns
• Discuss the characteristics of superficial and deep partial thickness burns, as well as full-thickness burns
• Discuss the three zones of a burn wound
• Discuss the properties of split thickness vs. full thickness skin grafts
• Discuss the airway management and treatment of inhalation injuries
• Describe the resuscitation and management of electrical burns

**Practice Based Learning and Improvement**
Goal: The resident will investigate and evaluate his/her own patient care practices, appraise and assimilate scientific evidence, and improve patient care practices.

Objectives:
• Uses information technology to prepare for surgical cases, bringing to the OR the knowledge of current modalities of care and the scientific evidence for that care.
• Routinely analyzes the effectiveness of own practices in caring for burn patients
• Improves own practices in the care of burn patients by integrating appropriately gathered data and feedback
• Educates medical students and other healthcare professionals in the practices of burn surgery
• Functions independently with graduated advancement and appropriate faculty supervision
• Uses library sources to perform literature searches and perform research
• Understands the principles of clinical research and the application of biostatistics

**Interpersonal and Communication Skills**
Goals: The resident will demonstrate interpersonal and communication skills that result in effective information exchange and teaming with patients, their families and professional associates

Objectives:
• Educates patients and families in perioperative and rehabilitative strategies for burn patients
• Demonstrates compassion for patients and families afflicted with burns
• Provides adequate counseling and informed consent to patients
• Listens to patients and their families
• Assimilates data and information provided by other members of the health care team
• Records accurate information
**System Based Practice**
Goals: The resident will demonstrate an awareness of and responsiveness to the larger context and system of health care and the ability to effectively call on system resources to provide care that is of optimal value.

Objectives:
- Advocates for burn patient within the health care system
- Makes appropriate consultations for burn patients when needed to the appropriate practitioners
- Facilitates the timely discharge of burn patients
- Works with paramedical professionals in the pre-hospital care of burn patients.

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

Objectives:
- Develops a sensitivity of the unique stresses placed on families under care for burn injuries
- Exhibits an unselfish regard for the welfare of burn patients
- Demonstrates firm adherence to a code of moral and ethical values
- Is respectful to burn patients and their families especially in times of stress
- Respects and appropriately integrates other members of the burn surgery team
- Provides appropriately prompt consultations when requested
- Is reliable, punctual, and accountable for own actions in the OR and clinic
- Maintains patient confidentiality

Measurement: Resident is evaluated at the end of the rotation by Burn faculty/attending.

**Orthopaedic Surgery/Vascular Surgery**
**PGY1 Level**

The following pages describe the goals and objectives for the orthopaedic surgery resident who rotation through Division of Vascular Surgery.

Goals:
- Orthopaedic Surgery residents who rotate through Vascular Surgery will be able to perform an accurate evaluation of the arterial, venous and lymphatic circulatory systems.
- Residents will be proficient in the medical and surgical management, sufficient to treat patients with uncomplicated arterial, venous, and lymphatic disorders.

Objectives:
In order to achieve these goals, the residents have the following objectives:
Patient Care

- The resident will demonstrate the ability to take a complete and accurate history and physical examination from patients with vascular disease.
- The resident will demonstrate the ability to order appropriate noninvasive vascular testing (vascular lab, imaging) and invasive diagnostic test (angiography).
- The resident will demonstrate the ability to prescribe nonoperative treatment for arterial, venous and lymphatic disorders.
- The resident will demonstrate the ability to perform operative vascular procedures appropriate to their level of training.

Medical Knowledge

- The resident will possess adequate knowledge of the anatomy and physiology of the arterial, venous and lymphatic system.
- The resident will possess an understanding of the pathology of arterial, venous and lymphatic disorders

Practice Based Learning and Improvement

- The resident will demonstrate the ability to review the general medical literature and integrate this knowledge of new medical evidence into practice decisions (specifically to vascular surgery).

Interpersonal Skills and Communication

- The resident will demonstrate the ability to communicate effectively and professionally with patients and their families, referring physicians, colleagues, nurses and staff.
- The resident will demonstrate the ability to provide and request appropriate consultation from other specialists.

Systems Based Practice

- The resident will demonstrate the ability to interact with other health care professional teams in the hospital for the benefit of the patient.
- Participate and understand the role of multidisciplinary care for the management of patients with various vascular injuries.
- Understand how their patient care and other practices affect other health care professionals and their practice.
- Understand the principle of cost-effective health care and resource allocation when dealing with vascular patients.

Professionalism

- Residents must demonstrate a commitment to carrying out professional responsibilities and adhering to ethical principles.
- Residents must demonstrate respect, compassion and integrity.
• Residents must be responsive to the needs of their patients and their families and society.

**Surgical Intensive Care Unit (SICU)**

**PGY1 Level**

Rotation Goal: The purpose of the surgical intensive care unit (SICU) rotation is to provide the PGY1 level resident with a clinical and didactic experience to facilitate the care of critically ill patients in the perioperative period.

Learning Objectives:

**Patient Care**
Residents are expected to:
• Examine all patients prior to morning and afternoon rounds.
• Evaluate the severity of disease of the critically ill patient and recognize, prioritize, and treat life-threatening derangement in homeostasis.
• Learning indications, contraindication, and techniques of invasive monitors (arterial lines, CVP, pulmonary artery catheters) and interpretation and application of hemodynamic data.
• Learn basic principles of airway management, including oxygen delivery, respiratory therapy, and institution, management and weaning of mechanical ventilator support for the critically ill patient.
• Learn to medically manage critically ill patients, including the patient with multi-organ failure, sepsis, systemic inflammatory response syndrome and acute respiratory distress syndrome.

**Medical Knowledge**
Residents are expected to:
• Learning pathophysiology of conditions common to critically ill patients including multi-organ, sepsis, Systemic Inflammatory Response Syndrome and Acute Respiratory Distress syndrome.
• Understand and interpret acid-base disturbances.
• Understand and treat common coagulopathies.
• Learn the concepts and practice of routine ICU procedures including central line placement, arterial catherization, pulmonary artery catheter placement and use, ventilator therapy.
• Be prepared to discuss schedule topics during daily afternoon lectures in the SICU conference room.

**Practice Based Learning and Improvements**
Residents are expected to:
• Locate and appraise scientific studies to guide patient care.
• Locate and use information necessary to further their own education and improve their patient care practices
• Facilitate learning of medical students, junior residents and off-service residents.
• Assimilate information learned throughout the month and critically evaluate their own functioning level.

**Interpersonal and Communication Skills**
Residents are expected to:
• Present information in an organized fashion on rounds to the ICU team and help develop a treatment plan for the day
• Keep faculty informed of changes in patient status
• Learn and practice functioning as a team member in recognition and therapy of cardiovascular emergencies.
• Actively participate in rounds, SICU daily activities such as line changes, ventilator changes and patient orders.
• Communicate and coordinate with the primary surgical service changes in patient condition or treatment plan.
• Facilitate communication between the primary service, ICU team and other consultants.

**Professionalism**
Residents are expected to:
• Demonstrate respect, compassion, and integrity in all aspects of patient care.
• Participate in the anesthesiology department morning lectures, M&M conference and case conferences when not on call or post call.
• Participate in multidisciplinary rounds.

**System-Based Practice**
Residents are expected to:
• Effectively communicate and work with the primary surgical service and other consultation services in daily management of patients.
• Review relevant history, vitals and labs and be familiar with the ongoing care plan (including all medical treatments, planned surgery, antibiotics, nutrition, physical therapy, consults, pain control and social issues).

The resident is assigned to the SICU for one month and is under the direction of the anesthesiology and/or surgical critical care faculty assigned to the SICU. Residents are expected to actively participate in rounds, SICU daily activities and patient order changes. Residents are expected to learn the concepts and practice of routine SICU procedures.

Measurements: Resident is evaluated at the end of the rotation by faculty attendings.

**Trauma Surgery Rotation/General Surgery**
PGY1 Level
Medical Knowledge
Goal: The resident will achieve a detailed knowledge of the pathophysiology of blunt and penetrating trauma and will develop the skills needed to treat the trauma patient.

Objectives:
The resident should be able to:
- Describe the mechanics of injury of blunt and penetrating injury.
- Recite the steps of the primary, secondary and tertiary surgery.
- Discuss the diagnosis and treatment of thoracic injuries, including:
  - Flail chest
  - Cardiac tamponade and contusion
  - Open and tension pneumothorax
  - Airway obstruction
  - Aortic transaction
  - Diaphragmatic tear
  - Esophageal tear
  - Rib fracture
- Discuss the diagnosis and treatment of abdominal injuries:
  - Splenic injury
  - Hepatic injury
  - Bowel injury
  - Gastric injury
  - Pancreatic injury
  - Renal and bladder injury
- Discuss the diagnosis and treatment of central nervous system injury:
  - Brain injury
  - Spinal cord injury
- Discuss the diagnosis and treatment of orthopaedic injuries.
- Recites the steps in the treatment of hemorrhagic shock
- Recite the indications for and complications of blood product transfusion.

Patient Care
Goals: The resident will provide patient care that is compassionate, appropriate, and effective for the treatment of trauma problems.

Objectives:
The resident should be able to:
- Perform a primary, secondary, and tertiary survey for a trauma patient.
- Function as the team member in the resuscitation phase of trauma patient care.
- Perform the emergency treatment for flail chest, cardiac tamponade, pneumothorax, and airway obstruction.
- Participate in the operative treatment of thoracic and abdominal trauma
- Perform a complete CNS evaluation for the trauma patient and assign GCS scores.
- Perform thoracostomy on appropriate trauma patients.
- Perform a diagnostic peritoneal lavage
- Participate in exploratory laparotomies for trauma patients.
- Treatment of patients with cardiac tamponade and perform pericardial centesis and pericardial windows.
- Become ATLS certified.

**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 improve patient care practices.

Objectives:
The resident will be able to:
- Uses information technology to prepare for surgical cases, bringing to the OR the knowledge of current modalities of care and the scientific evidence for that care.
- Routinely analyzes the effectiveness of own practices in caring for trauma patients.
- Improves own practices in the care of trauma patients by integrating appropriately gathered data and feedback.
- Educates medical students and other healthcare professionals in the practices of trauma surgery.
- Functions independently with graduated advancement and appropriate faculty supervision
- Uses library sources to perform research and perform literature searches.
- Understands the principles of clinical research and the application of biostatistics.

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

Objectives:
The resident should be able to:
- Educates patients and families in post operative and rehabilitative strategies for trauma patients.
- Demonstrates compassion for patients and families afflicted with trauma.
- Provides adequate counseling and informed consent to patients
- Listens to patients and their families
- Assimilates data and information provided by other members of the health care team
- Charts and records accurate information.

**Systems Based Practice**
Goal: The resident will demonstrate an awareness of and responsiveness to the larger context and system of health care and the ability to effectively call on system resources to provide care that is of optimal value.

Objectives:
The resident should be able to:
• Coordinates all aspects of the rehabilitation of the trauma patient
• Direct the rehabilitation of patients following trauma by partnering with the following: physical therapy, occupational therapy, PRM physicians, social workers, nutritionists
• Demonstrates knowledge of cost-effectiveness trauma care
• Advocates for trauma patients within the health care system
• Refers trauma patients to the appropriate practitioners and agencies
• Facilitates the timely discharge of trauma patients

**Professionalism**

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

Objectives:
The resident should be able to:
• Develop a sensitivity of the unique stresses placed on families under care for traumatic injuries.
• Exhibits an unselfish regard for the welfare of trauma patients.
• Demonstrates firm adherence to a code of moral and ethical values
• Is respectful to hand patients and their families especially in times of trauma and stress to the family unit.
• Respects and appropriately integrates other members of the trauma team
• Provides appropriately prompt hand consultations when requested
• Demonstrates sensitivity to the individual patient’s profession, life goals, and cultural background as they apply to trauma care.
• Is reliable, punctual and accountable for own actions in the OR.

Measurements: Resident is evaluated at the end of the rotation by trauma faculty/attending.

**General Surgery Rotation/Surgery (A, B, TDCJ)**

**PGY1 Level**

**I. Surgical Oncology:**

**Medical Knowledge**

Goal: The resident will achieve a detailed knowledge of the evaluation and management of surgical oncology patients.

Objectives: The resident will be able to:
• Discuss the basic pathophysiology of the mechanics involved in malignant transformation,
• Tumor growth and metastases formation.
• Recite the natural history and biologic behavior of specific tumor types
• Discuss treatment of malignant melanoma
• Become familiar with the details of the management of wounds in the surgical oncology patient: intra-operative and post-operative.
• Discuss the differences of chemotherapy drugs in surgical oncology patients.

II. Abdominal Surgery
Goal: The resident will achieve a detailed knowledge of the evaluation and management of the general surgical patient with abdominal complaints.

Objectives: The resident will be able to:

• Discuss the evaluation, diagnosis and management of the acute abdomen. You should begin to learn the basics of surgical management.
• Discuss the pathophysiology, evaluation and diagnosis of disorders of the small intestines. You should begin to learn the basics of surgical management.
• Discuss the pathophysiology, evaluation and diagnosis of disorders of the colon. You should begin to learn the basics of surgical management.
• Discuss the pathophysiology, evaluation and diagnosis of disorders of the stomach and duodenum. You should begin to learn the basics of surgical management.
• Discuss the pathophysiology, evaluation and diagnosis of disorders of the pancreas and biliary system. You should begin to learn the basics of surgical management.

III. Breast Surgery
Goal: The resident will achieve a detailed knowledge of the evaluations and management of the breast patient.

Objectives: The resident will be able to:

• Discuss the pathophysiology, evaluation and diagnosis of the breast mass. You should begin to learn the basics of surgical management.
• Describe the evaluation of non-palpable breast abnormalities
• Recite the screening for breast cancer
• Discuss the preoperative staging of breast cancer
• Discuss the genetic predisposition to breast cancer and prophylactic mastectomy
• Become familiar with the use of preoperative hemotherapy and radiation therapy for breast cancer
• Describe the basic steps of the surgical procedures used for breast disease.
• Define advanced breast cancer and discuss the natural history.

IV. Minimal Access Surgery
Goals: The resident will achieve a detailed knowledge and understanding of minimally access surgery.

Objective: The resident will be able to:

• Discuss the advantages and disadvantages of minimally invasive surgery.
• Discuss the suitability of minimally invasive surgery for various disease processes.
• Identify and know the use of basic equipment necessary for a laparoscopic equipment.
• Identify the potential intraoperative and postoperative complications of minimally invasive surgery.
Patient Care
Goal: The resident will provide patient care that is compassionate, appropriate, and effective for the treatment of general surgery conditions/disease processes.

Objectives: The resident will be able to:

- Perform with graduated independence, bedside procedures including wound care, drain care, feeding tube placement and care of central lines, placement and care of pleural catheters, placement and care of nasogastric tubes and Foley catheters.

Practice Based Learning and Improvement
Goal: The resident will investigate and evaluate his/her own patient care practices, appraise and assimilate scientific evidence, and improve patient care practices.

Objectives: The resident will be able to:

- Routinely analyze the effectiveness of own practices in caring for surgery patients.
- Improve own practices in the care of patients by integrating appropriately gathered data and feedback.
- Educate medical students and other healthcare professionals in the practices of general surgery.
- Utilize library sources to perform research and perform literature searches.
- Use information technology to prepare for cases, using in the OR the knowledge of current modalities of care and the scientific evidence for that care.

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

Objectives: The resident will be able to:

- Provide and instruct medical students and residents in the art of counseling and obtaining informed consent to patients.
- Demonstrate compassion for all surgical patients and families.
- Recognize and counsel the patients and family that need help dealing with the surgical experience; especially those that deal with bad news.
- Chart and record accurate information.

System Based Practice
Goal: The resident will demonstrate an awareness of and responsiveness to the larger context and system of health care and the ability to effectively call on system resources to provide care that is of optimal value.
• Coordinates all aspects of the preoperative and postoperative care and rehabilitation surgical patients.
• Create a cost-effective, focused work up for diagnostic testing.
• Advocate for surgical patients within the health care system.
• Facilitate the timely discharge and/or placement of surgery patients.
• Refer surgical patients to the appropriate practitioners and agencies
• Coordinate the admission of patients and communicate with primary care physicians, inpatient house staff and consultants.
• Discuss the scientific basis and regulations governing clinical trials and their importance in defining appropriate therapy.
• Coordinate the total care of the surgical patient by partnering with other members of the medical team.
• Participate in conferences and committees.

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

• Develop a sensitivity of the unique stresses placed on families under care for general surgery
• Exhibits an unselfish regard for the welfare of general surgery patients
• Is respectful to patients and their families especially in times of stress to the family unit.
• Is reliable, punctual, and accountable for own actions in the OR and clinic.
• Maintains patient confidentiality

Measurement: Resident is evaluated at the end of the rotation by general surgery faculty/attending.