

**RIVERSIDE UNIVERSITY HEALTH SYSTEM – MEDICAL CENTER
ORTHOPAEDIC SURGERY RESIDENCY PROGRAM**

**Anesthesia (PGY-1)
(Duration: 4 weeks)**

Supervising Faculty: Dr. David Ninan

The overall goal of the anesthesia rotation (PGY-1) is to educate the resident to become competent at evaluating and providing anesthesia care for patients undergoing general operating room procedures such as general surgery and orthopaedic surgery. The PGY-1 resident will obtain a level of skill providing care for these basic operations to allow the resident to adequately perform when they are assigned to the subspecialty rotations. Faculty supervision is direct or indirect with direct supervision immediately available.

Patient Care

Goals

The orthopaedic resident must be able to provide patient care that is compassionate, appropriate, and effective for the treatment of health programs and the promotion of health.

Objectives

Following completion of the anesthesia rotation, the resident should be able to:

- Perform and record a thorough preoperative assessment.
- Formulate and intelligently discuss an anesthetic management plan for a general surgical patient.
- Understand the rationale for selecting drugs used during a surgical anesthetic. Determine the doses and anesthetic agents needed to anesthetize a general surgical patient.
- Be able to skillfully place a peripheral intravenous catheter.
- Be able to skillfully perform standard tracheal intubation in an average adult patient.
- Properly manage the maintenance of general anesthesia during surgery in an average adult patient.
- Properly manage the emergence and recovery of an adult patient undergoing general anesthesia, including postoperative pain management.
- Describe the techniques of regional anesthesia, surgical anesthesia and postoperative pain management

Medical Knowledge

Goals

The orthopaedic resident must gain medical knowledge of established and evolving biomedical, clinical, epidemiological and social-behavioral sciences, as well as the application of this knowledge to patient care.

Objectives

The resident will be expected to describe basic anesthesia knowledge at a textbook level and basic concepts of anesthesia for cases they have managed. In addition, residents are expected to do the following to increase his or her medical knowledge during their general operating room rotation:

- Read and demonstrate understanding of basic principles of anesthesia
- Read and discuss the literature for issues involving individual patients they care for.
- Read and discuss articles for journal club.
- Read and discuss articles for individual cases presented in the morbidity and mortality conference.
- Participate and read the material for the problem-based-learning-discussion sessions.
- Participate in the difficult airway and other department sponsored workshops.

Practice-based Learning and Improvement

Goals

The orthopaedic resident must demonstrate the ability to investigate and evaluate his/her care of anesthesia patients, to appraise and assimilate scientific evidence, and to continuously improve patient care based on constant self-evaluation and life-long learning

Objectives

The resident will be expected to demonstrate life-long practice based learning and improvement with the following activities:

- Review the literature and lead the discussion on practice improvement.
- Rapidly review the literature, including the use of electronic media, for anticipated difficult cases to which they are assigned.
- Complete the personal learning project in the practice based learning and improvement curriculum for the rotation.

Interpersonal and Communication Skills

Goals

The orthopaedic resident must demonstrate interpersonal and communication skills that result in the effective exchange of information and collaboration with patients, their families, and other health professionals.

Objectives

- Competently and compassionately discuss the anesthetic plan and risks with patients and their families.
- Interact with nursing and surgical personnel to facilitate safe and efficient care in the operating room.
- Learn to communicate with and calm patients undergoing surgery under local or regional anesthesia.
- Develops positive relationships with patients and families.
- Negotiates and manages simple patient/family-related conflicts.
- Is aware of factors that affect communications (e.g. modality; language: appropriate use of interpreters; hearing, vision and cognitive impairments).
- Identifies special communication needs of vulnerable populations.
- Can organize both written and oral information to be shared with patient and family, and engage patients in shared and decision-making.
- Adapts patient- and family-related information gathering to social cultural context.
- Effectively communicates with vulnerable populations, both patients and families.
- Uses strategies to ensure patient understanding.
- Recognizes interpersonal and communication conflicts with other physicians and health professionals.
- Expands communication using proper medical terminology and by giving therapeutic rationale.
- Effectively communicates patient information during transitions in care.
- Develops working relationships in complex situations and across specialties.
- Documents results of communications, such as patient preferences, conflict resolution, and advance directives.
- Communication reflects a comprehensive understanding of all elements of a patient's clinical condition.
- Actively participates in team-based care
- Supports activities of other team members
- Actively participates in interdisciplinary meetings to improve patient care
- Participates in family/patient/team member conferences, and incorporates patient and family values and preferences.
- Provides legible, accurate, complete and timely documentation that is congruent with medical standards.
- Demonstrates appropriate use of the electronic health record.
- Effectively and ethically uses all forms of communication, including face-to-face, telephone, and electronic.

- Communicate effectively with patients, families, and the public, as appropriate, across a broad range of socioeconomic and cultural backgrounds
- Communicate effectively with physicians, other health professionals, and health related agencies
- Act as a consultative role to other physicians and health professionals
- Maintain comprehensive, timely, and legible medical records
- Use effective listening skills and elicit and provide information using effective nonverbal,
- Explanatory, questioning, and writing skills, if applicable.

Professionalism

Goals

The orthopaedic resident must demonstrate a commitment to carrying out professional responsibilities and an adherence to ethical principles

Objectives

- Demonstrates an understanding of the importance of compassion, integrity, respect, sensitivity, and responsiveness, and is able to exhibit these attitudes consistently in common and uncomplicated situations.
- Is aware of personal beliefs and values that impact interactions with others and may influence provision of medical care; is able to manage these values and beliefs so that they have minimal impact on patient care.
- Is able to exhibit these attitudes in complex and complicated situations.
- Recognizes how one's own personal beliefs and values impact medical care; consistently manages one's own values and beliefs to optimize relationships and medical care.
- Exhibits an interest in and formulates strategies to learn about issues of diverse populations.
- Is knowledgeable about the beliefs, values, and practices of diverse patient populations and their potential impact on patient care.
- Consistently recognizes ethical issues in practice; is able to discuss, analyze, and manage these in common clinical practice.
- Effectively analyzes and manages frequently encountered ethical issues.
- Recognizes personal beliefs and their potential impact on patient care.
- Effectively manages personal beliefs to avoid any negative impact on patient care.
- Defines and understands physician accountability to patients, society, and the profession.
- Develops an understanding of one's own beliefs and values and how they impact one's attitude and behavior; is able to understand and balance the needs of oneself and others to prioritize and provide appropriate medical care.
- Consistently recognizes limits of one's own knowledge in common and frequent clinical situations, and asks for assistance.
- Consistently recognizes limits of one's own knowledge in uncommon and complicated clinical situations; develops and implements plans for the best possible patient care.
- Recognizes the needs to develop and demonstrate leadership skills.
- Identifies basic principles of physician wellness, including rest, diet, exercise, personal health, and balance in life.
- Demonstrates adequate management of personal emotional, physical, and mental health.
- Is knowledgeable about and effectively manages the issues related to fatigue and sleep deprivation.
- Recognizes signs of physician impairment.
- Is able to assess application of principles of physician wellness, alertness, delegation, teamwork, and optimization of personal performance to the practice of medicine in one's own self and others.
- Is able to identify and manage situations in which maintaining personal emotional, physical, and mental health is challenged by common and typical clinical care solutions.
- Demonstrate respect, integrity and compassion for others
- Demonstrate responsiveness to patient needs that supersedes self interest
- Demonstrate accountability to patients, society and the profession
- Demonstrate a commitment to ethical principles pertaining to provision or withholding of clinical care, confidentiality of patient information, informed consent, and business practices.

- Demonstrate sensitivity and responsiveness to a diverse patient population, including but not limited to diversity in culture, age, gender, disabilities and sexual orientation
- Demonstrate commitment to ethical principles pertaining to provision or withholding of clinical care, confidentiality of patient information, informed consent and business practice

Systems-based Practice

Goals

The orthopaedic resident must demonstrate an awareness of and responsiveness to the larger context and system of health care, as well as the ability to call effectively on other resources in the system to provide optimal health care.

Objectives

- Understands the need for an interdisciplinary approach to effectively coordinate care.
- Understands coordination of care between different systems.
- Transmits relevant information during transitions of care.
- Facilitates safe and effective transitions of care.
- Works with other members of the health care team to identify system errors and areas of potential quality improvement
- Works in interdisciplinary teams to identify solutions (action plans) to identified system errors.
- Is respectful of other team members and actively seeks their input to solve problems.
- Provides examples of cost and value implications of care and begins to incorporate these into patient care decisions
- Practices cost-effective care with awareness of risk-benefit considerations, and uses cost considerations in medical decision-making
- Work effectively in various health care delivery settings and systems relevant to general surgery
- Coordinate patient care within the health care system relevant to their general surgical issues
- Practice cost-effective health care and resources allocation that does not compromise quality of care.
- Advocate for quality patient care and optimal patient care systems
- Work in inter-professional teams to enhance patient safety and improve patient care quality
- Participate in identifying system errors and implementing potential system solutions

ASSESSMENT METHOD:

Direct and indirect observation by faculty with assessment on formal end of resident rotation evaluation form.

DIDACTIC CURRICULUM REQUIRED ATTENDANCE:

Ortho Monday Pre-Op Conference (Monday AM)

Wednesday Pediatric Conference (Wednesday AM)

Friday Post-Op Conference (Friday AM)

Ortho Monthly Research Meeting (Wednesday AM)

Monthly Ortho Department Meeting/Educational Grand Rounds (Monday PM)

Bi-Monthly M&M Conference (Monday PM)

Ortho Basic Surgical Skills Lab (As scheduled)

Anesthesia Morning Conference (Tuesday/Thursday AM)