

LSUHSC-Shreveport and LSUHSC-Monroe

Major Participating Institutions-The Asthma Allergy Clinic, Brentwood Behavioral Health Company, Christus Schumpert Health System, Huey P. Long Medical Center, North Caddo Medical Center, Overton Brooks Veterans Affairs Medical Center, Rapides Regional Medical Center, Shriners Hospitals for Children, Willis Knighton Medical Center

RESIDENT LEVELS OF CARE

ORTHOPAEDIC SURGERY

Resident Level: PGY-1

Clinical Diagnosis and Management	Invasive Operative Management
<p>1 – medical knowledge 2 – patient care skills 3 – practice-based learning 4 – interpersonal and communication skills 5 – systems-based practice 6 – professionalism</p> <p>* - PGY 2 or greater is present and documents their presence ** - a faculty physician, other than another resident, is present physically during the key portions of the procedure or is immediately available</p> <hr/> <p>Perform and document history and physical examination (1, 3, and 4) Develop a differential diagnosis (1, 2,) Order and interpret findings of diagnostic tests (radiology, laboratory) (1, 2,) Develop and document fluid and electrolyte therapy (1, 2, and 4) Monitor vital signs and intake/output (1, 2) Request and evaluate appropriate consults (1, 2, 3, 4, 5, and 6) Obtain and document informed consent (orthopaedic consent *) (1, 4, 6) Order transfusions of blood and blood products (1, 2, and 5) Order pain management therapy (1, 2, and 3) Order medications and monitor for effectiveness and adverse reactions (1, 2, and 3) Develop and document pre and post operative care plans (non-orthopaedic) (1, 2, 4, 5)</p>	<p>Perform venipuncture Start peripheral IV lines Place central lines (subclavian or jugular vein)** Draw blood cultures Place Foley catheters Obtain oropharyngeal control of airway and provide ambu-ventilation Perform oral/nasal-gastric/tracheal** intubation Administer local anesthetics Learn basic techniques of dissection and handling of tissues Repair simple lacerations Understand the principles and application of electrocautery Perform simple wound closures Perform wound dressing and daily wound care Serve as operative assistant Excise or biopsy superficial skin lesions Perform incision and drainage of superficial (or deep**) fluid collections and/or abscesses Place (percutaneous or open**), maintain and remove thoracostomy tubes Perform diagnostic lumbar puncture ** Obtain and apply split thickness skin grafts ** Repair umbilical and inguinal hernias ** Perform extremity amputations ** Draw arterial blood samples Place arterial blood pressure monitoring lines** Remove superficial foreign bodies Apply casts and splints Reduce simple dislocations</p>

<p>Document patient status by clear and legible notes (1, 2, and 4)</p> <p>Dictate discharge summaries (1, 4, 5, and 6)</p> <p>Dictate operative notes (of simple non-orthopaedic procedures) (1, 4, 5)</p> <p>Learn and apply ICD and CPT codes and understand the documentation needed (1, 3, 5, 6)</p> <p>Collect specimens (Urine, sputum, joint fluid, drainage, etc...) for submission to laboratory for examination (1, 2, 3, 4, 5)</p> <p>Understand and practice sterile techniques and scrub, gown and glove and drape properly for non-orthopaedic surgery (1)</p> <p>Manage surgical tubes and drains (1, 2)</p> <p>Understand and practice universal infection control/safety precautions (1, 2, 3, 4, 5, 6)</p> <p>Understand principles of triage (1, 2, 3, 4, and 5)</p> <p>Understand/Utilize principles of mechanical ventilation (1, 2)</p> <p>Understand the basic principles of anesthesia and interpret the anesthesia record (1, 2, 5)</p> <p>Maintain a legally correct and complete medical record (1, 5, and 6)</p> <p>Use and understand nursing notes and patient data (1, 4, 5, 6)</p> <p>Interpret normal and common abnormal findings in x-rays of chest, abdomen, soft tissues (1, 3)</p> <p>Interpret and appropriately describe fracture patterns of simple long bone fractures (1, 3)</p> <p>Be familiar with common surgical instruments and suture materials and their proper uses (1)</p> <p>Utilize the institutional resources and case management services for discharge planning and follow-up (1, 3, 4, 5)</p> <p>Be aware of the principles of peer review and cooperate with the GMEC and CQI process and activities (4, 5, 6)</p> <p>Evaluate and diagnose compartment syndrome (1, 2)</p> <p>Understand the concept of risk management and needed documentation in the medical record (4, 5, 6)</p> <p>Understand the principles of clinical research and clinical trials (3)</p> <p>Be able to perform statistical analysis of data and interpretation of published results (3, 5)</p> <p>Develop computer skills and use available resources (3, 5, 6)</p> <p>Understand the anatomy of the chest and pelvic cavities and the extremities (1)</p>	
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RESIDENT LEVELS OF CARE

ORTHOPAEDIC SURGERY

Resident Level: PGY-2

Clinical Diagnosis and Management	Invasive Operative Management
<p>1 – medical knowledge 2 – patient care skills 3 – practice-based learning 4 – interpersonal and communication skills 5 – systems-based practice 6 – professionalism</p> <p>* - PGY 4 or greater is present and documents their presence</p> <p>** - a faculty physician, other than another resident, is present physically during the key portions of the procedure or is immediately available</p> <hr/> <p>Perform and document detailed history and physical examination focusing on the musculoskeletal system (1,2) Develop a differential diagnosis, emphasizing musculoskeletal medicine (1,2) Develop and document fluid and electrolyte therapy (1,2) Understand the principles of radiation safety and fluoroscopy (1,2) Provide appropriate care for urgent and emergent orthopaedic conditions (1,2,3,5) Obtain consent for orthopaedic surgical procedures (1,2,4,5) Learn and apply ICD and CPT codes and understand the documentation needed for orthopaedic procedures (1,3,5,6) Describe all long bone fractures adequately (1,2) Understand biomechanics of fractures and its clinical correlation (1,2)</p>	<p>Insert percutaneous pins Remove hardware (except around the pelvis) Act as first assist for complex orthopaedic operative procedures Perform moderately complicated wound closures Perform wound irrigation and debridements Repair simple lacerations Perform incision and drainage Perform closed reductions of all fractures Perform open reduction and internal fixation of simple fractures* Tie all knots required in orthopaedic surgery Use scalpel, forceps and scissors effectively Perform knee, wrist, elbow, ankle, hip*, small joint arthrocentesis Perform removal of cysts, ganglions, etc... *</p>

<p>Dictate orthopaedic operative procedure notes (1)</p> <p>Understand the anatomy of the hand, spine and pelvis (1)</p> <p>Understand the pharmacology of antibiotics, analgesics and drugs for conscious sedation and be able to order them appropriately (1,2)</p> <p>Expand knowledge of pre and post-operative orthopaedic care with good documentation (1,2,4,5)</p> <p>Utilize the institutional resources and case management services for orthopaedic discharge planning and follow-up (1,3,4,5)</p> <p>Provide appropriate care for urgent and emergent orthopaedic conditions (1,2)</p> <p>Begin to understand the specialized equipment required for orthopaedic surgery (1,3.)</p> <p>Understand which equipment is kept in the hospital and which equipment</p> <p>Required to be called into the hospital (1,5)</p> <p>Be able to tie all knots required by orthopaedic surgery (1)</p> <p>Use basic surgical equipment and basic orthopaedic equipment (1)</p> <p>Be able to instruct medical and allied health students in the fundamentals of orthopaedic care (1,2,3,4,5,6)</p> <p>Continue to demonstrate the importance of acquiring throughout residency, medical knowledge about established and evolving biomedical, clinical and cognate sciences as well as application of such knowledge to patient care (1,2,3,4,5,6)</p> <p>Continue to demonstrate practice based learning and improvement that involves the investigation and evaluation of care of patients, the appraisal and assimilation of scientific evidence, and improvement in patient care (1,2,3,4,5,6)</p> <p>Expand the understanding of the concept of risk management and needed documentation in the medical record (4,5,6)</p>	
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RESIDENT LEVELS OF CARE

ORTHOPAEDIC SURGERY

Resident Level: PGY-3

Clinical Diagnosis and Management	Invasive Operative Management
<p>1 – medical knowledge 2 – patient care skills 3 – practice-based learning 4 – interpersonal and communication skills 5 – systems-based practice 6 – professionalism</p> <p>* - PGY 4 or greater is present and documents their presence</p> <p>** - a faculty physician, other than another resident, is present physically during the key portions of the procedure or is immediately available</p> <hr/> <p>Perform and document detailed history and physical examination focusing on the musculoskeletal system (1,2) Develop a differential diagnosis, emphasizing musculoskeletal medicine (1,2) Develop an understanding of the pathology of inflammatory joint disease (1) Continue to use radiological equipment in a safe and efficacious manner (1,2) Provide appropriate care for urgent and emergent orthopaedic conditions (1,2,3,5) Obtain consent for complicated orthopaedic surgical procedures (1,2,4,5) Continue to learn and apply ICD and CPT codes and understand the documentation needed for orthopaedic procedures (1,3,5,6) Describe all acetabular and spine fractures adequately (1,2) Understand biomechanics of fractures and</p>	<p>Perform complex wound closures Insert percutaneous pins for moderately complex fractures Remove hardware Expand the ability to assist for complex orthopaedic operative procedures Perform wound irrigation and debridements of complex open fractures (pelvis**) Repair complex lacerations Perform incision and drainage Perform closed reductions of all fractures and dislocations Perform open reduction and internal fixation of moderately complex fractures* Perform nailing of tibia and femur* Understand and use most orthopaedic equipment. Understand the basic use of equipment required to insert a total joint replacement Be able to negotiate the knee joint with an arthroscopy** Perform knee, wrist, elbow, ankle, hip, small joint arthrocentesis Perform curettage and bone grafting of bony cysts ** Be able to perform moderately complex tendon repairs. Be able to obtain Iliac crest bone graft Apply external fixators on long bones of lower extremity** Perform simple hand procedures**</p>

<p>orthopaedic implants, and use this knowledge to make sound orthopaedic decisions (1,2,3,)</p> <p>Dictate complex orthopaedic operative procedure notes (1)</p> <p>Understand the three dimensional anatomy of the skeleton (1)</p> <p>Understand the pharmacology of non-steroidal anti-inflammatories and steroids (1,2)</p> <p>Expand knowledge of pre and post-operative orthopaedic care, including complications, with good documentation (1,2,4,5)</p> <p>Utilize the institutional resources and case management services for orthopaedic discharge planning and follow-up (1,3,4,5)</p> <p>Provide appropriate care for a critically ill orthopaedic patient with minimal supervision(1,2)</p> <p>Understand the specialized equipment required for orthopaedic surgery (1,3.)</p> <p>Understand which equipment is kept in the hospital and which equipment required to be called into the hospital (1,5)</p> <p>Be able to communicate with the instrument representative regarding the need for instrumentation for basic orthopaedic cases (1,2,4,5,6)</p> <p>Use advanced surgical equipment. (1)</p> <p>Be able to instruct medical and allied health students in the fundamentals of orthopaedic care and radiology interpretation(1,2,3,4,5,6)</p> <p>Continue to demonstrate the importance of acquiring throughout residency, medical knowledge about established and evolving biomedical, clinical and cognate sciences as well as application of such knowledge to patient care (1,2,3,4,5,6)</p> <p>Continue to demonstrate practice based learning and improvement that involves the investigation and evaluation of care of patients, the appraisal and assimilation of scientific evidence, and improvement in patient care(1,2,3,4,5,6)</p> <p>Expand the understand of the concept of risk management and needed do documentation in the medical record (4,5,6)</p> <p>Understand the indications for total joint replacement (1,2)</p>	
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RESIDENT LEVELS OF CARE ORTHOPAEDIC SURGERY

Resident Level: PGY-4

Clinical Diagnosis and Management	Invasive Operative Management
<p>1 – medical knowledge 2 – patient care skills 3 – practice-based learning 4 – interpersonal and communication skills 5 – systems-based practice 6 – professionalism</p> <p>** - a faculty physician, other than another resident, is present physically during the key portions of the procedure or is immediately available</p> <hr/> <p>Perform and document detailed history and physical examination focusing on the musculoskeletal system (1,2) Develop a differential diagnosis, emphasizing musculoskeletal medicine Including musculoskeletal tumors (1,2) Understand the pathology of malignant and benign bone disease and acquire the ability to order and interpret appropriately ordered radiology tests Understand the pathology of all types of inflammatory joint disease (1) Continue to use radiological equipment in a safe and efficacious manner (1,2) Provide appropriate care for the most emergent orthopaedic conditions (1,2,3,5) Obtain consent for complicated orthopaedic surgical procedures (1,2,4,5) Able to discuss with patients and families, orthopaedic diseases and their prognosis (1,2,3,4,6) Continue to learn and apply ICD and CPT codes and understand the documentation needed for orthopaedic procedures (1,3,5,6)</p>	<p>Perform complex wound closures Insert percutaneous pins for complex fractures Perform wound irrigation and debridements of complex open fractures including pelvic fractures Repair complex lacerations Repair complex tendon laceration (Zone II of hand**) Perform incision and drainage of all abscesses Perform closed reductions of all fractures and dislocations Perform open reduction and internal fixation of complex fractures Perform nailing of tibia and femur Understand and use all commonly used orthopaedic equipment. Be able to perform primary total knee and hip replacements** Be able to preoperatively plan for re-do total knee and hip replacements Be able to negotiate the knee and shoulder joint with an arthroscopy** Perform knee, wrist, elbow, ankle, hip, small joint arthrocentesis Perform curettage and bone grafting of bony cysts Be able to obtain Iliac crest bone graft Apply external fixators on long bones of lower extremity Perform simple hand procedures** Perform open reduction and internal fixation of all but complex fractures Perform adequate exposure of the spine Preoperatively plan for adult osteotomies</p>

Understand the three dimensional anatomy for the spine and pelvis

Understand biomechanics of fractures and orthopaedic implants, and use this knowledge to make sound orthopaedic decisions and plan operative intervention for complex orthopaedic cases(1,2,3,)

Dictate complex orthopaedic operative procedure notes (1)

Provide complete pre-operative and post-operative care for most orthopaedic patients and the more common complications which may arise including adequate documentation (1,2,3,4,5,6)

Utilize the institutional resources and case management services for complex orthopaedic discharge planning and follow-up (1,3,4,5)

Provide appropriate care for a critically ill orthopaedic patient with minimal supervision (1,2)

Understand the specialized equipment required for orthopaedic surgery including arthroscopic equipment and total joint equipment (1,3.)

Understand which equipment is kept in the hospital and which equipment required to be called into the hospital (1,5)

Be able to communicate with the instrument representative regarding the need for instrumentation for orthopaedic cases (1,2,4,5,6)

Use advanced surgical equipment. (1)

Be able to instruct medical and allied health students in the fundamentals of orthopaedic care, radiology interpretation and basic surgical requirements (1,2,3,4,5,6)

Continue to demonstrate the importance of acquiring throughout residency, medical knowledge about established and evolving biomedical, clinical and cognate sciences as well as application of such knowledge to patient care (1,2,3,4,5,6)

Continue to demonstrate practice based learning and improvement that involves the investigation and evaluation of care of patients, the appraisal and assimilation of scientific evidence, and improvement in patient care (1,2,3,4,5,6)

Expand the understand of the concept of risk management and needed documentation in the medical record (4,5,6)

Understand the indications for total joint replacement and pre-operatively plan for total hips, knees and shoulders.

Be able to direct a team of orthopaedic, and other residents, along with medical and allied health students, in the care of multiple pre- and post-operative patients (1,2,3,4,5,6)

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RESIDENT LEVELS OF CARE

ORTHOPAEDIC SURGERY

Resident Level: PGY-5

Clinical Diagnosis and Management	Invasive Operative Management
<p>1 – medical knowledge 2 – patient care skills 3 – practice-based learning 4 – interpersonal and communication skills 5 – systems-based practice 6 – professionalism</p> <p>** - a faculty physician, other than another resident, is present physically during the key portions of the procedure or is immediately available</p> <hr/> <p>Perform and document detailed history and physical examination focusing on the musculoskeletal system (1,2) Develop a differential diagnosis, emphasizing musculoskeletal medicine including musculoskeletal tumors (1,2) Understand the pathology of malignant and benign bone disease and acquire the ability to order and interpret appropriately ordered radiology tests Understand the pathology of all types of inflammatory joint disease (1) Continue to use radiological equipment in a safe and efficacious manner (1,2) Provide appropriate care for the most emergent orthopaedic conditions (1,2,3,5) Obtain consent for complicated orthopaedic surgical procedures (1,2,4,5) Be able to discuss with patients and families, complex orthopaedic diseases including</p>	<p>Perform complex wound closures Insert percutaneous pins for complex fractures Perform wound irrigation and debridements of complex open fractures including pelvic fractures Repair complex lacerations Repair complex tendon laceration (Zone II of hand**) Perform incision and drainage of all abscesses Perform closed reductions of all fractures and dislocations Perform open reduction and internal fixation of complex fractures Perform nailing of tibia and femur Understand and use all commonly used orthopaedic equipment. Be able to perform primary total knee and hip replacements Be able to perform revision total knee and hip replacements** Be able to preoperatively plan for revision total knee and hip replacements Be able to perform a knee arthroscopy and meniscal repair/debridement Be able to perform a shoulder arthroscopy and labral repair Be able to perform an ACL reconstruction** Perform knee, wrist, elbow, ankle, hip, small joint arthrocentesis Perform curettage and bone grafting of bony cysts Apply external fixators on long bones of lower extremity</p>

<p>malignant tumors and their prognosis (1,2,3,4,6)</p> <p>Continue to learn and apply ICD and CPT codes and understand the documentation needed for orthopaedic procedures (1,3,5,6)</p> <p>Understand the appropriate instrumentation for the spine and pelvis</p> <p>Understand biomechanics of fractures and orthopaedic implants, and use this knowledge to make sound orthopaedic decisions and plan operative intervention for complex orthopaedic cases(1,2,3,)</p> <p>Dictate complex orthopaedic operative procedure notes (1)</p> <p>Provide complete pre-operative and post-operative care for most orthopaedic patients and the more common complications which may arise including adequate documentation (1,2,3,4,5,6)</p> <p>Utilize the institutional resources and case management services for complex orthopaedic discharge planning and follow-up (1,3,4,5)</p> <p>Provide appropriate care for a critically ill orthopaedic patient with minimal supervision (1,2)</p> <p>Understand the specialized equipment required for orthopaedic surgery including arthroscopic equipment and total joint equipment (1,3.)</p> <p>Understand which equipment is kept in the hospital and which equipment required to be called into the hospital (1,5)</p> <p>Be able to communicate with the instrument representative regarding the need for instrumentation for complex orthopaedic cases (1,2,4,5,6)</p> <p>Use advanced surgical equipment. (1)</p> <p>Be able to instruct medical and allied health students in the fundamentals of orthopaedic care, radiology interpretation and basic surgical requirements (1,2,3,4,5,6)</p> <p>Continue to demonstrate the importance of acquiring throughout residency, medical knowledge about established and evolving biomedical, clinical and cognate sciences as well as application of such knowledge to patient care (1,2,3,4,5,6)</p> <p>Continue to demonstrate practice based learning and improvement that involves the investigation and evaluation of care of patients, the appraisal and assimilation of scientific evidence, and improvement in patient care (1,2,3,4,5,6)</p> <p>Expand the understand of the concept of risk management and needed documentation in the</p>	<p>Perform complex hand procedures**</p> <p>Perform open reduction and internal fixation of all complex fractures</p> <p>Perform adequate exposure of the spine</p> <p>Performing fracture and dislocation reductions of the spine**</p> <p>Planning and performing adult osteotomies</p> <p>Manage intraoperative emergencies (i.e., bleeding, fractures, nerve injuries)**</p>
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<p>medical record (4,5,6)</p> <p>Understand the indications for total joint replacement and pre-operatively plan for total hips, knees and shoulders.</p> <p>Be able to direct a team of orthopaedic, and other residents, along with medical and allied health students, in the care of multiple pre- and post-operative patients (1,2,3,4,5,6)</p>	
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