

**DUKE ORTHOPAEDIC SURGERY**

**GOALS AND OBJECTIVES**

**SPINE SERVICE**

**PATIENT CARE**

**PGY-2 RESIDENT**

**CHIEF RESIDENT**

<p>Able to perform a complete musculoskeletal and neurologic examination on the patient including cervical spine, thoracic spine, and lumbar spine. The neurologic examination should reflect an understanding of the pathologies that may be present including the absence of a reflex, long tract signs, positive Hoffman, positive Babinski and/or clonus.</p> <p>Able to make patient treatment decisions and possess a basic understanding of the indications for surgical procedures with various elective pathology as well as patients who have sustained spine trauma.</p> <p>Possess an understanding of indications for surgical treatment of idiopathic scoliosis, congenital scoliosis, congenital kyphosis, and various types of spondylolisthesis.</p> <p>The presentation of management of cervical, thoracic, and lumbar fractures.</p> <p>Presentation and management of various types of spinal tumors.</p> <p>Understands the diagnosis and management of spinal infections.</p>	<p>Able to apply the classification system(s) for all spinal pathologies including:</p> <ol style="list-style-type: none"><li>1. Cervical disc herniation.</li><li>2. Lumbar disc herniation.</li><li>3. Thoracic disc herniation.</li><li>4. Spinal fractures.</li><li>5. Spine tumors.</li><li>6. Idiopathic scoliosis/kyphosis.</li><li>7. Congenital scoliosis.</li><li>8. Congenital kyphosis.</li><li>9. Spondylolisthesis.</li><li>10. Paralytic deformities.</li></ol> <p>Able to successfully analyze and measure basic radiographic instruments such as coronal Cobb, and sagittal Cobb measurements.</p> <p>Able to accurately read basic radiographs, basic MRI, and basic CT myelography of the cervical, thoracic, and lumbar spine.</p> <p>Demonstrate comprehensive proficiency in spinal surgery including approaches, closures, decompressions, fusions,</p>
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<p>During operative procedures exhibits competency in exposing the spine posteriorly and can assist in the performance of straight forward decompressions.</p> <ol style="list-style-type: none"><li>1. Displays basic familiarity with placing hooks, wires, and pedicle screws in the spine.</li><li>2. Achieves proficiency in first assisting on operative procedures.</li></ol>	<p>instrumentations including hooks, screws, rods, plates, and wires.</p> <p>Demonstrates proficiency with anterior and posterior bone grafting, harvesting ribs, cervical, thoracic, and lumbar approaches.</p>
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**DUKE ORTHOPAEDIC SURGERY**

**GOALS AND OBJECTIVES**

**SPINE SERVICE**

**MEDICAL KNOWLEDGE**

**PGY-2 RESIDENT**

**CHIEF RESIDENT**

<p>Demonstrates basic understanding of degenerative pathologies, congenital pathologies, deformity pathologies, tumor and fracture pathologies.</p> <p>Able to accurately define different types of spondylolisthesis and different types of scoliosis including idiopathic vs congenital vs paralytic.</p> <p>Able to accurately distinguish the difference between burst fracture, chance fracture, and fracture dislocation.</p> <p>Should be able to tell the difference between disc degeneration and disc herniation in the cervical, thoracic, and lumbar spine.</p> <p>Successfully complete the OKU Specialty Series on Spine.</p> <p>Successfully complete the OKU Specialty Series Self-Assessment Examination for Spine.</p> <p>Successfully complete the Spine Reading Reference List.</p>	<p>Able to accurately define the difference between anterior, posterior, and middle column pathologies and their relationship with spinal column stability.</p> <p>Able to define anterior surgery vs posterior surgery vs combined anterior-posterior surgery.</p> <p>Able to accurately determine levels of fusion and levels of decompression.</p>
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## DUKE ORTHOPAEDIC SURGERY

### GOALS AND OBJECTIVES

#### SPINE SERVICE

#### PRACTICE—BASED LEARNING AND IMPROVEMENT

##### **PGY-2 RESIDENT**

Attends indication conferences and demonstrates a reasonable understanding of what the indications are for surgical intervention with various spinal pathologies

Participates in Spine Journal Club. Attends and participates in the monthly Spine Trauma Conference.

Able to locate, appraise, and assimilate evidence from past and ongoing scientific studies related to patient spinal pathologies.

Able to obtain and use information about his/her patient population and the larger population from which patients are drawn.

Able to apply knowledge of study designs and statistical methods to the appraisal of clinical studies.

Able to use information technology such as Medline to manage information access on-line medical information and support his/her own education.

Participates in the monthly Complications/Patient Safety

##### **CHIEF RESIDENT**

Attends indication conferences and demonstrates understanding of the surgical treatment and indications for anterior surgery vs posterior surgery vs combined anterior-posterior surgery.

Teaches and mentors the PGY-2 Resident on the service.

Accurately reads all current spine articles in both the Spine Journal and JBJS during the rotation and participates actively in the spine journal clubs.

Attends and participates in the monthly Spine Trauma Conference.

Able to locate and appraise and assimilate evidence from past and ongoing scientific studies related to patient health issues.

Able to obtain and use information about his/her patient population and the larger population from which patients are drawn.

Able to apply knowledge of study designs and statistical methods to the appraisal of clinical studies.

Conference	Participates in the monthly Complications/Patient Safety Conference
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**DUKE ORTHOPAEDIC SURGERY**

**GOALS AND OBJECTIVES**

**SPINE SERVICE**

**INTERPERSONAL AND COMMUNICATION SKILLS**

**PGY-2 RESIDENT**

Able to create and sustain a therapeutic and ethically sound relationship with patients and their families.

Able to effectively use listening skills.

Able to effectively provide information via various communication mediums.

Able to work effectively with others as a member/leader of a health care team.

**CHIEF RESIDENT**

Able to create and sustain a therapeutic and ethically sound relationship with patients and their families.

Able to effectively use listening skills.

Able to effectively provide information via various communication mediums.

Able to work effectively with others as a member/leader of a health care team.

**DUKE ORTHOPAEDIC SURGERY**

**GOALS AND OBJECTIVES**

**SPINE SERVICE**

**PROFESSIONALISM**

**PGY-2 RESIDENT**

Interacts in a professional manner with inpatients, outpatients, referring physicians, orthopaedic residents, attendings, and all patients in the practice.

Possesses competency and effectively manages hospital patients.

Demonstrates respect, compassionate and integrity in response to the needs of patients and their families.

Demonstrates ethical principles pertaining to patient confidentiality issues.

Demonstrates sensitivity to the culture, age, gender, and disabilities of patients and fellow health care professionals.

**CHIEF RESIDENT**

Interacts in a professional manner with inpatients, outpatients, referring physicians, orthopaedic residents, attendings, and all patients in the practice.

Possesses competency and effectively manages hospital patients.

Demonstrates respect, compassionate and integrity in response to the needs of patients and their families.

Demonstrates ethical principles pertaining to patient confidentiality issues.

Demonstrates sensitivity to the culture, age, gender, and disabilities of patients and fellow health care professionals.

## DUKE ORTHOPAEDIC SURGERY

### GOALS AND OBJECTIVES

#### SPINE SERVICE

#### SYSTEM BASED PRACTICE

##### **PGY-2 RESIDENT**

Demonstrates competency in coordinating all aspects of perioperative and postoperative rehabilitation and physical therapy.

Demonstrates an understanding of how patient care and other professional practices affect other health care professionals, health care organizations, and the largest society in how these elements of the systems affect one's own practice.

Demonstrates knowledge of how different types of medical practice and health care delivery systems differ from one another including methods of controlling health care costs and allocating resources.

Has the opportunity to practice medicine in various health care systems including an academic teaching hospital, veterans administration hospital, community hospital, pediatric orthopaedic hospital, and community health department.

Has understanding of various health funding systems including private insurance, Medicare, Medicaid, Workers Compensation,

##### **CHIEF RESIDENT**

Demonstrates competency in coordinating all aspects of perioperative and postoperative rehabilitation and physical therapy.

Demonstrates an understanding of how patient care and other professional practices affect other health care professionals, health care organizations, and the largest society in how these elements of the systems affect one's own practice.

Demonstrates knowledge of how different types of medical practice and health care delivery systems differ from one another including methods of controlling health care costs and allocating resources.

Has the opportunity to practice medicine in various health care systems including an academic teaching hospital, veterans administration hospital, community hospital, pediatric orthopaedic hospital, and community health department.

Has understanding of various health funding systems including private insurance, Medicare, Medicaid, Workers Compensation,

<p>and Vocational Rehabilitation.</p> <p>Practices cost-effective health care and resource allocation that does not compromise quality of care.</p> <p>Demonstrates understanding of impact of correct coding during patient office visits and surgery.</p> <p>Effectively partners with health care managers and health care providers to assess, coordinate, and improve health care and know how these activities can affect system performance.</p> <p>Demonstrates the ability to practice culturally competent medicine.</p>	<p>and Vocational Rehabilitation.</p> <p>Practices cost-effective health care and resource allocation that does not compromise quality of care.</p> <p>Demonstrates understanding of impact of correct coding during patient office visits and surgery.</p> <p>Effectively partners with health care managers and health care providers to assess, coordinate, and improve health care and know how these activities can affect system performance.</p> <p>Demonstrates the ability to practice culturally competent medicine.</p>
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**DUKE ORTHOPAEDIC SURGERY**

**DELINEATED LINES OF RESPONSIBILITY**

**SPINE SERVICE**

**OUTPATIENT**

**PGY-2 RESIDENT**

The PGY-2 Resident will see patients with attendings in the Back and Spine Clinic. Duties include pre and postoperative evaluation of patients, preoperative workups of patients, and management of nonoperative spine problems.

Attendance and participation in the Spine Indications Conference, Spine Trauma Conference, and Spine Journal Clubs.

**CHIEF RESIDENT**

The Chief Resident will see patients with the attendings in the Back and Spine Clinic.

Attendance and participation in the Spine Indications Conference, Spine Trauma Conference, and Spine Journal Clubs.

**DUKE ORTHOPAEDIC SURGERY**

**DELINEATED LINES OF RESPONSIBILITY**

**SPINE SERVICE**

**INPATIENT**

**PGY-2 RESIDENT**

The PGY-2's responsibilities include floor rounds twice daily in facilitating patient care.

The activities of the PGY-2 Resident are supervised by the Chief Resident and by the attending orthopaedic surgeon.

**CHIEF RESIDENT**

The Chief Resident will assist the PGY-2 Resident in inpatient rounds and will report in coordination with the PGY-2 resident to the attending orthopaedic surgeon.

**DUKE ORTHOPAEDIC SURGERY**  
**DELINEATED LINES OF RESPONSIBILITY**  
**SPINE SERVICE**

**OPERATIVE**

**PGY-2 RESIDENT**

In the operating room, the PGY-2 resident is responsible for assisting the attending orthopaedic surgeon. The resident will perform appropriate portions of the surgical procedure as directed by the attending orthopaedic surgeon and under the direct supervision of the attending orthopaedic surgeon.

**CHIEF RESIDENT**

The Chief Resident's responsibilities in the operating room include assisting the attending orthopaedic surgeon in all aspects of the operative case.

The actual performance of all or part of the operative procedure will be accomplished either under direct supervision or semi-independently in those situations deemed appropriate by the attending orthopaedic surgeon.