

## DUKE ORTHOPAEDIC SURGERY

### GOALS AND OBJECTIVES

#### MUSCULOSKELETAL ONCOLOGY SERVICE

##### PATIENT CARE

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

Resident effectively participates as a junior resident in all phases of patient care including inpatient, outpatient, and consultant duties within Duke University Medical Center.

Able to appropriately evaluate an oncology patient both clinically and radiographically and arrive at a reasonable working differential diagnosis.

Demonstrates an understanding and appreciates the multiple disciplinary nature of the delivery of cancer care and recognizes the importance and effectively employs close interaction with other members of the team including radiologists, pathologists, musculoskeletal oncologists, radiation therapists, and other surgical subspecialties.

Understands and appreciates psychosocial issues that surround a cancer patients and his/her family.

Exhibits a sense of how to communicate with the patient about these important issues and is able to recognize when an appropriate referral to psychosocial specialist is warranted.

###### **CHIEF RESIDENT**

Resident effectively participates as Chief Resident in all phases of patient care including inpatient, outpatient, and consultant duties within Duke University Medical Center.

Able to appropriately evaluate an oncology patient both clinically and radiographically and arrive at a reasonable working differential diagnosis.

Demonstrates an understanding and appreciates the multiple disciplinary nature of the delivery of cancer care and recognizes the importance and effectively employs close interaction with other members of the team including radiologists, pathologists, musculoskeletal oncologists, radiation therapists, and other surgical subspecialties.

Understands and appreciates psychosocial issues that surround a cancer patients and his/her family.

Exhibits a sense of how to communicate with the patient about these important issues and is able to recognize when an appropriate referral to psychosocial specialist is warranted.

Demonstrates and is able to apply knowledge of indications for and is able to perform:

- 1, Biopsy of bone and soft tissue lesions.
2. The surgical removal of benign, non-aggressive soft tissue tumors such as intermuscular lipoma.
3. Able to identify the usual types of metastatic lesions to bone and is able to develop a plan for treatment of metastatic disease.

Demonstrates and is able to apply knowledge of indications for and is able to perform:

- 1, Biopsy of bone and soft tissue lesions.
2. The surgical removal of benign, non-aggressive soft tissue tumors such as intermuscular lipoma.
3. Able to identify the usual types of metastatic lesions to bone and is able to develop a plan for treatment of metastatic disease.
4. Demonstrates and is able to provide knowledge of the basic treatment for common bone and soft tissue neoplasms including the role of chemotherapy, radiation therapy, and surgery.

Understands the rationale and basic technique for limb salvage from malignant bone and soft tissue tumors.

Able to identify the usual type of metastatic lesions to bone and is able to develop a plan for treatment of metastatic disease.

Demonstrates and is able to apply knowledge to the indication for and able to surgically manage metastatic disease of long bone, specifically the humerus, femur, and tibia and have an understanding for surgical treatment of metastatic disease to the pelvis.

## DUKE ORTHOPAEDIC SURGERY

### GOALS AND OBJECTIVES

#### MUSCULOSKELETAL ONCOLOGY SERVICE

##### MEDICAL KNOWLEDGE

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

Successfully completes the OKU Specialty series for Musculoskeletal Tumors.

Successfully completes the OKU Specialty Series Self-Assessment Examination for Musculoskeletal Tumors.

Successfully completes the reference list for reading during the rotation.

Demonstrates an understanding of the classification of bone and tissue neoplasms.

Recognizes and is able to describe radiographic and pathologic features of common benign and malignant tumors.

Demonstrates basic knowledge of the:

1. The indications for surgery for common bone and soft tissue lesions and neoplasms.
2. The usual types of metastatic lesions to bone.
3. Limb salvage surgery.
4. Management of metastatic disease to the long bones, specifically the humerus, femur, and tibia.

###### **CHIEF RESIDENT**

Successfully completes the OKU Specialty series for Musculoskeletal Oncology.

Successfully completes the reading reference list for reading during the rotation.

Demonstrates an understanding of the classification of bone and tissue neoplasms.

Recognizes and is able to describe radiographic and pathologic features of common benign and malignant tumors.

Demonstrates basic knowledge of the:

1. The indications for surgery for common bone and soft tissue lesions and neoplasms.
2. The usual types of metastatic lesions to bone.
3. Limb salvage surgery.
4. Management of metastatic disease to the long bones, specifically the humerus, femur, and tibia.

Attends and participates in the monthly Musculoskeletal Oncology Conference performed on a rotating basis with

<p>Attends and participates in the monthly Musculoskeletal Oncology Conference performed on a rotating basis with anatomy, basic science, and journal clubs.</p> <p>Prepares for and participates in the musculoskeletal radiology and musculoskeletal pathology conferences.</p>	<p>anatomy, basic science, and journal clubs.</p>
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## DUKE ORTHOPAEDIC SURGERY

### GOALS AND OBJECTIVES

#### MUSCULOSKELETAL ONCOLOGY SERVICE

##### PRACTICE--BASED LEARNING AND IMPROVEMENT

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

Demonstrates familiarity with appropriate literature from JBJS, CORR, Oncology, Cancer, and Skeletal Radiology as well as other sources.

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

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

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

Able to use information technology to manage information, assess on-line medical information, and support his/her own education.

Prepares for and participates in appropriate general orthopaedic journal clubs devoted to Musculoskeletal Oncology.

###### **CHIEF RESIDENT**

Demonstrates familiarity with appropriate literature from JBJS, CORR, Oncology, Cancer, and Skeletal Radiology as well as other sources.

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

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

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

Able to use information technology to manage information, assess on-line medical information, and support his/her own education.

Prepares for and participates in appropriate general orthopaedic journal clubs devoted to Musculoskeletal Oncology.

**DUKE ORTHOPAEDIC SURGERY**

**GOALS AND OBJECTIVES**

**MUSCULOSKELETAL ONCOLOGY 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 regarding oncological care.

Able to work effectively with others as a member or 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 regarding oncological care.

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

**DUKE ORTHOPAEDIC SURGERY**

**GOALS AND OBJECTIVES**

**MUSCULOSKELETAL ONCOLOGY SERVICE**

**PROFESSIONALISM**

**PGY-2 RESIDENT**

Demonstrates respect, compassion, 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.

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

**CHIEF RESIDENT**

Demonstrates respect, compassion, 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

#### MUSCULOSKELETAL ONCOLOGY SERVICE

##### SYSTEMS BASED PRACTICE

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

Demonstrates an understanding and appreciation of the multi-disciplinary nature of the delivery of cancer care and recognizes the importance of close interaction with others members of the team including radiologists, pathologists, musculoskeletal oncologists, radiation therapists, and other surgical subspecialties.

Effectively communicates with the patient about psychosocial issues and is able to recognize when an appropriate referral to a psychosocial specialist is indicated.

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

###### **CHIEF RESIDENT**

Demonstrates an understanding and appreciation of the multi-disciplinary nature of the delivery of cancer care and recognizes the importance of close interaction with others members of the team including radiologists, pathologists, musculoskeletal oncologists, radiation therapists, and other surgical subspecialties.

Effectively communicates with the patient about psychosocial issues and is able to recognize when an appropriate referral to a psychosocial specialist is indicated.

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.

<p>including methods of controlling health care costs and allocating resources.</p> <p>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.</p> <p>Has understanding of various health funding systems including private insurance, Medicare, Medicaid, Workers Compensation, 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>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.</p> <p>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.</p> <p>Has understanding of various health funding systems including private insurance, Medicare, Medicaid, Workers Compensation, 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**

**ONCOLOGY SERVICE**

**DELINEATED LINES OF RESPONSIBILITIES**

**OUTPATIENT**

**PGY-2 RESIDENT**

When in the outpatient clinic the PGY-2 Resident has the responsibility of evaluating new patients and presenting these patients to the attending orthopaedic surgeon.

This requires obtaining appropriate history, performing a physical examination, evaluating imaging studies and formulating a plan.

The resident will be responsible for dictating the findings to the point of the official recommendation of the plan which will then be made by the attending orthopaedic surgeon.

In-house consults directed to the Oncology Service will also be initially evaluated by the PGY-2 Resident or the Chief Resident as appropriate.

**CHIEF RESIDENT**

When in the outpatient clinic the Chief Resident has the responsibility of evaluating new patients and presenting these patients to the attending orthopaedic surgeon.

This requires obtaining appropriate history, performing a physical examination, evaluating imaging studies and formulating a plan.

The resident will be responsible for dictating the findings to the point of the official recommendation of the plan which will then be made by the attending orthopaedic surgeon.

In-house consults directed to the Oncology Service will also be initially evaluated by the PGY-2 Resident or the Chief Resident as appropriate.

**DUKE ORTHOPAEDIC SURGERY**

**ONCOLOGY SERVICE**

**DELINEATED LINES OF RESPONSIBILITIES**

**INPATIENT**

**PGY-2 RESIDENT**

The PGY-2 Resident's responsibility includes ward rounds twice daily.

The activities of the PGY-2 resident are supervised by the attending orthopaedic surgeon

**CHIEF RESIDENT**

The Chief Resident is responsible for obtaining appropriate history, performing physical examination, and evaluation of image studies and formulating a plan.

The Chief Resident will be responsible for dictation, his findings up to the point of the official recommendation and the plan which will be carried out by the attending orthopaedic surgeon.

**DUKE ORTHOPAEDIC SURGERY**

**ONCOLOGY SERVICE**

**DELINEATED LINES OF RESPONSIBILITIES**

**OPERATIVE**

**PGY-2 RESIDENT**

The PGY-2 Resident will assist the Attending Orthopaedic Surgeon in surgery. With progress, the resident will be able to perform surgical approaches under the direct supervision of the Attending Orthopaedic Surgeon. The PGY-2 Resident will gain increasing surgical responsibility as appropriately determined by the Attending Orthopaedic Surgeon.

**CHIEF RESIDENT**

The Chief Resident will be posted on appropriate cases on the oncology service. He will be responsible for performing parts of orthopaedic procedures as directed by the attending orthopaedic surgeon.

The actual performance of all or a part of an orthopaedic procedure will be done under the direct supervision of the attending orthopaedic surgeon.