# Musculoskeletal Oncology Services at Rush

The Musculoskeletal Oncology team at Rush University Medical Center specializes in treating bone and soft tissue tumors, benign and malignant, of the spine and extremities. Our skilled experts are trained in limb preservation and are well-equipped to handle complex and rare cancer surgeries and reconstructive procedures. In many cases, patients can receive minimally invasive surgeries to remove tumors, while preserving healthy tissue. Experts at Rush are also experienced in treating metastatic bone disease with advanced medical oncology treatments and technology, such as next generation sequencing for targeted therapy.

In addition to a strong, multidisciplinary team, the Musculoskeletal Oncology program is age and anatomic varied, diagnostic and therapeutic. Providers at Rush are prepared to treat patients from all stages of life who may be dealing with a range of conditions, such as osteosarcoma, liposarcoma, fibrous dysplasia or lipoma.

## Advanced 3D Technology

Rush is the first medical center in the United States to utilize 3D printed cancer devices and is currently working with Onkos to develop unique 3D printed tools. Rush is the only cancer center with an FDA approved investigational device exemption.

## Nationally Ranked Orthopedic Care

Rush University Medical Center is ranked No. 7 in the nation for orthopedics by *U.S. News & World Report*, with internationally respected orthopedic specialists whose research discoveries and innovative treatment approaches are helping patients around the world.

## Sarcoma Research Center

Experts at Rush evaluate and treat patients with rare bone, muscle and connective tissue tumors. Rush University Medical Center is a designated Sarcoma Research Center by the Sarcoma Alliance for Research through Collaboration (SARC). Clinical trials are available to patients in partnership with the National Cancer Institute and the Children's Oncology Group. Pediatric oncologists are available to treat conditions like Ewing's sarcoma and rhabdomyosarcoma.

As an FDA test site, Rush will be the first and only cancer center in the United States to test the safety and efficacy of hybrid cold plasma in cancer surgery. In addition, radiation oncologists are currently exploring biodegradable deliveries for sarcomas and other cancers.

**To refer a patient, call (312) CANCER-1**

## Conditions We Treat

### Bone Sarcoma

- Chondrosarcoma
- Chordoma
- Ewing's sarcoma
- Osteosarcoma

### Soft Tissue Sarcoma

- Liposarcoma
- Malignant fibrous histiocytoma
- Spindle cell sarcoma
- Synovial sarcoma

### Metastatic Carcinoma

- Spine
- Extremities

### Benign Bone Tumors

- Bone cyst
- Fibrous dysplasia
- Osteoid osteoma
- Paget's disease

### Benign Soft Tissue Tumors

- Fibromatosis/Desmoid tumor
- Lipoma
- Pigmented villonodular synovitis (PVNS)
- Synovial Chondromatosis

## Treatments and Therapies

- Bone implants and joint replacement
- Clinical trials
- Expandable implants for pediatric patients
- Limb sparing surgery
- Neoadjuvant chemotherapy to prevent micrometastasis
- On-site prosthetics services and rehabilitation
- Radiation therapy with CivaSheet, a membrane-like brachytherapy device
- Targeted therapy with next generation sequencing

## Location

**Rush University Cancer Center**
Professional Building
1725 W. Harrison St., Suite 1010
Chicago, IL 60612

RUSH

## Musculoskeletal Oncology Team

### Orthopedic Oncologists


Steven Gitelis, MD


Alan T. Blank, MD


Matthew W. Colman, MD

### Surgical Oncologists


Cristina M. O'Donoghue, MD


Jonathan A. Myers, MD

### Medical Oncologist


Marta Batus, MD

### Pediatric Oncologists


Nupur Mittal, MD


Paul M. Kent, MD

### Radiation Oncologist


Dian Wang, MD, PhD

### Pathologist


Ira J. Miller, MD, PhD

### Radiologists


John R. Meyer, DO


Gregory White, MD

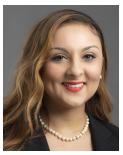

Michael Ralls, MD


John Ebersole, MD

### Interventional Radiologists


Bulent Arslan, MD

### Reconstructive Surgeons


Deana S. Shenaq, MD


Gordon H. Derman, MD

### Clinical Staff


Patricia Piasecki, NP


Ann Patel, RN, BSN


Maria F. Stone, NP


Mary Zindrick, RN, BSN


Amanda Young, RN, BSN


Susanne Swasey, NP