The Musculoskeletal Tumor Registry (MsTR) is the third subspecialty registry to be incorporated into the AAOS family of registries. The wide-spread rollout of the MsT Registry allows surgeons to combine data about rare bone and soft tissue tumors from sites around the country, thereby potentially answering treatment and outcome questions that are otherwise unable to be answered due to the rarity of the disease. The MsTR feedback and dashboards will help clinicians and health systems track function, complications, and outcomes in patients treated for these sarcomas with the potential to expand to metastatic bone disease and other musculoskeletal tumors in the future.

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Clinical research and advancements in orthopaedic oncology have historically been hindered by limited numbers, heterogeneous disease presentations, and varied treatments. The MsTR has potential to provide insight into oncologic and functional outcomes for many sarcoma subtypes and surgical procedures on a scale not previously possible. Through the sarcoma, spine tumor, and metastatic disease of bone modules, the MsTR offers an unparalleled opportunity to improve the quality of care for patients afflicted with musculoskeletal tumors.

– Dr. Benjamin Miller, MD, FAAOS, MS, Chair
Data Element Overview

Data elements will include but are not limited to patient demographics, patient baseline and examination, tumor baseline, treatment and post-treatment, and surgery detail along with postoperative data (oncologic failure, surgery complication, vital status), and patient-reported outcomes as conveyed in applicable instruments. This page is a summary of the MsTR data elements and is not all inclusive.

BASELINE

Patient:
- Name (Last, First)
- Date of Birth
- Social Security Number
- Diagnosis (ICD-10, CPT)
- Gender
- Race/Ethnicity
- Height + Weight/Body Mass Index
- Payer Status

Site of Service:
- Name and Address (TIN, NPI)

Surgeon:
- Name (NPI)

Surgical Intervention:
- Procedure Type (ICD-10, CPT)
- Date of Surgery
- Implants
- Details Surrounding Surgery Type
- Comorbidities (ICD-10, CPT)

Non-Surgical Intervention:
- Chemotherapy
- Radiation
- Clinical Trial

Tumor Baseline:
- Size
- Metastasis at Diagnosis
- Margins
- Tissue Type
- Biopsy Type

ENCOUNTERS AND PATIENT-REPORTED OUTCOMES

Encounters
- Hospital Admission
- Procedure (ICD-10, CPT)
- Diagnosis (ICD-10, CPT)
- Recurrence

Patient-reported Outcomes
- PROMIS-10 Global or VR-12
- MSTS
- TESS

For more information and to stay up to date on new features and enhancements for MsTR, scan this QR code.