

## Bone Sarcoma

**Procedure:**     Intralesional resection  
                  Marginal resection  
                  Segmental/wide resection  
                  Other: \_\_\_\_\_  
                  Not specified

### **Tumor type (based on 2019 WHO classification):**

#### **Chondrogenic Tumors**

- Chondrosarcoma
- Dedifferentiated chondrosarcoma
- Mesenchymal chondrosarcoma
- Clear cell chondrosarcoma

#### **Osteogenic Tumors**

- Osteosarcoma
- Low-grade central osteosarcoma
- Parosteal osteosarcoma
- Periosteal osteosarcoma
- High-grade surface osteosarcoma
- Secondary osteosarcoma

#### **Fibrogenic Tumors**

- Fibrosarcoma

#### **Vascular Tumors**

- Epithelioid hemangioendothelioma
- Angiosarcoma

#### **Osteoclastic Giant Cell-Rich Tumors**

- Malignant giant cell tumor

#### **Notochordal Tumors**

- Chordoma
- Dedifferentiated chordoma
- Poorly-differentiated chordoma

#### **Undifferentiated Small Round Cell Tumors**

- Ewing sarcoma
- CIC sarcoma
- Round cell sarcoma with *EWSR1*-non *ETS* fusion
- Sarcomas with *BCOR* genetic alterations
- NFATC2* sarcoma
- Undifferentiated round cell sarcoma, NOS

#### **Others**

- Adamantinoma
- Adamantinoma, dedifferentiated
- Leiomyosarcoma
- Undifferentiated pleomorphic sarcoma
- Undifferentiated spindle cell sarcoma
- Other: \_\_\_\_\_

**Tumor Site**

- Appendicular skeleton, trunk, skull, or facial bones
- Spine
- Pelvis
- Not specified

**Tumor location and extent (select all that apply)**

- Epiphysis / apophysis
- Metaphysis
- Diaphysis
- Cortex
- Medullar cavity
- Bone surface
- Joint
- Tumor extension into soft tissue
- Cannot be determined

**Tumor size**

\_\_ x \_\_ x \_\_ cm

**Necrosis**

- Not Identified
- Present

**Grade**

- 1
- 2
- 3
- Ungraded sarcoma
- Cannot be determined

**Margin status**

- Positive margin (tumor touching ink). Site(s): \_\_\_\_\_
- Indeterminate
- Negative margin, site and distance to closest margin: \_\_ cm
- Cannot be assessed

**Regional lymph nodes**

- None submitted or found
- Number of nodes positive / number examined: \_\_\_\_\_

**Lymphovascular invasion:**

- No
- Yes

**Percent post-treatment effect (microscopic)**

- Not identified
- Percent present: \_\_\_\_%
- Indeterminate

## **Staging, TNM (AJCC 8th ed.)**

**Primary Tumor (pT): *The stage differs based on tumor site***

### **Appendicular Skeleton, Trunk, Skull, and Facial Bones**

- **pT0:** No evidence of primary tumor
- **pT1:** Tumor  $\leq 8$  cm in greatest dimension
- **pT2:** Tumor  $> 8$  cm in greatest dimension
- **pT3:** Discontinuous tumors in the primary bone site

### **Spine**

- **pT0:** No evidence of primary tumor
- **pT1:** Tumor confined to one vertebral segment or two adjacent vertebral segments
- **pT2:** Tumor confined to three adjacent vertebral segments
- **pT3:** Tumor confined to four or more adjacent vertebral segments, or any nonadjacent vertebral segments
- **pT4:** Extension into the spinal canal or great vessels
  - **pT4a:** Extension into the spinal canal
  - **pT4b:** Evidence of gross vascular invasion or tumor thrombus in the great vessels

### **Pelvis**

- **pT0:** No evidence of primary tumor
- **pT1:** Tumor confined to one pelvic segment with no extraosseous extension
  - **pT1a:** Tumor  $\leq 8$  cm in greatest dimension
  - **pT1b:** Tumor  $> 8$  cm in greatest dimension
- **pT2:** Tumor confined to one pelvic segment with extraosseous extension or two segments without extraosseous extension
  - **pT2a:** Tumor  $\leq 8$  cm in greatest dimension
  - **pT2b:** Tumor  $> 8$  cm in greatest dimension
- **pT3:** Tumor spanning two pelvic segments with extraosseous extension
  - **pT3a:** Tumor  $\leq 8$  cm in greatest dimension
  - **pT3b:** Tumor  $> 8$  cm in greatest dimension
- **pT4:** Tumor spanning three pelvic segments or crossing the sacroiliac joint
  - **pT4a:** Tumor involves sacroiliac joint and extends medial to the sacral neuroforamen
  - **pT4b:** Tumor encasement of external iliac vessels or presence of gross tumor thrombus in major pelvic vessels

### **Regional Lymph Nodes (pN)**

- **pN0:** No regional lymph node metastasis
- **pN1:** Regional lymph node metastasis

**Distant Metastasis (pM)**

- **pM1a:** Lung
- **pM1b:** Metastasis involving bone or other distant sites (other than lung)