

Radiography Imaging Report Template for Potentially Neoplastic Bone Lesions

Examination: Radiographs, [number] Views.

Date of Study:

Clinical Indication:

Technique: views of the _____

Comparison/Correlation is made with _____

Patient Demographics:

Sex: M F

Age: Infant (0 – 12 months) Adolescent (11 – 20 years) Adult (41 – 70 years)

Child (1 – 10 years) Young Adult (21 – 40 years) Geriatric (> 70 years)

Known Malignancy: No Yes – Type: _____ (2 points)

FINDINGS:

Size: x x cm

Size relative to Bone Diameter: Less than 1/3 1/3 to 2/3 Greater than 2/3

Location/Bone Involved:

Long Axis Location (select epicenter of lesion or contiguous involved segments):

Epiphysis Metaphysis Diaphysis

Peri-trochanteric N/A (i.e. flat bone)

Short Axis Location:

Intramedullary – Central Intramedullary – Eccentric

Intracortical Surface

Radiodensity: Lytic Mixed Sclerotic

Matrix: None Osteoid Chondroid Ground glass Not readily classified

MSK-RADS (Bone) - Radiograph SCORING SYSTEM (with Point Values)

Margination/Zone of Transition

- IA – geographic well-defined lesion with sclerotic border (1 point)
- IB – geographic, well-defined without sclerotic border (3 points)
- II – geographic, but ill-defined with wide of transition (5 points)
- IIIA – changing margin on surveillance or two distinct patterns at initial evaluation (7 points)
- IIIB – non-geographic; moth-eaten or permeative (7 points)
- IIIC – radiographically occult – excluding “incidentaloma” (7 points)

Periosteal Reaction:

- None (0 points)
- Non-aggressive – cortical remodeling, solid, continuous, buttressing (2 points)
- Aggressive – multi-lamellated, sunburst, spiculated (4 points)
- Codman’s angle – elevated and acutely interrupted (4 points)

Endosteal Scalloping: None/Mild (0 points)

Moderate (1 point)

Deep (2 points)

Pathological Fracture: No Yes (2 points)

Evidence of Extra-Osseous Soft Tissue Mass: No Yes (4 points)

Concern for Impending Fracture based on non-clinical Mirels Criteria¹: No Yes

Pain (if known): Mild Moderate Functional

OPTIONAL: Advanced Imaging Findings (if available or applicable):

¹ Mirels H. Metastatic disease in long bones. A proposed scoring system for diagnosing impending pathologic fractures. Clinical orthopaedics and related research 1989:256-64.

Point Values:

- | | | | |
|----------------------|-----|------------------------|-----|
| Margination: | [] | Pathological Fracture: | [] |
| Periosteal Reaction: | [] | Soft Tissue Mass: | [] |
| Endosteal Erosion: | [] | Known Malignancy: | [] |

Point Total: []

MSK-RADS (bone) Score:

- [] N/A – 0 – Incompletely Characterized – further evaluation is suggested below
- [] 1-2 Points – I – Very Likely Benign – Very low risk of malignancy
- [] 3-4 Points – II – Probably Benign – Low risk of malignancy
- [] 5-6 Points – III – Potentially Malignant – Intermediate risk of malignancy
- [] 7 or more Points – IV – Highly Suspicious for Malignancy – High risk of malignancy

IMPRESSION:

Most Likely Diagnosis: 1. _____

Differential Diagnosis:

- 1. _____
- 2. _____
- 3. _____

RECOMMENDATION:

- [] No further imaging follow up is necessary – unless new symptoms or change in clinical status
- [] Radiographic surveillance is recommended at ___ months
- [] Advanced imaging evaluation is recommended (SELECT BELOW)
 - [] Magnetic Resonance Imaging (MRI) of the _____ [] without [] with contrast
 - [] Computed Tomography (CT) of the _____ [] without [] with contrast
 - [] Nuclear Medicine Technetium-99M Bone Scan
 - [] PET-CT
 - [] PET-MRI
 - [] Other: _____
- [] Biopsy and/or Orthopedic Oncology consultation is recommended