Bone-RADS™ – 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
Bone-RADS™ – 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)

Impending Fracture: [ ] No [ ] Yes

Point Values:

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

Point Total: [ ]

Bone-RADS™ Score:

[ ] 0 (N/A) – Incompletely Characterized – further evaluation is suggested below
[ ] 1 (1-2 points) – Very Low Risk of malignancy - very likely benign
[ ] 2 (3-4 points) – Low Risk of malignancy - probably benign
[ ] 3 (5-6 points) – Intermediate Risk of malignancy - potentially malignant
[ ] 4 (7 or more points) – High Risk of malignancy – highly suspicious for 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