# Bone-RADS™ v2023 Assessment Categories and Scoring System

<table>
<thead>
<tr>
<th>Bone-RADS Score</th>
<th>Risk Category</th>
<th>Description</th>
<th>Management</th>
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<tbody>
<tr>
<td>0</td>
<td>Incompletely Characterized</td>
<td>Risk cannot be adequately predicted&lt;br&gt;Example: Lucent lesions of the axial skeleton such as scapula, spine, or pelvis</td>
<td>• Further workup is necessary&lt;br&gt;• Additional radiographic views or cross-sectional imaging for further evaluation</td>
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<tr>
<td>1</td>
<td>Very Low Risk</td>
<td>Pathognomonic benign bone lesion&lt;br&gt;Classic “Do Not Touch” lesion&lt;br&gt;Example: Non-ossifying fibroma, osteoid osteoma</td>
<td>If asymptomatic, consider work up to be complete vs annual surveillance to ensure expected stability&lt;br&gt;If symptomatic or change in clinical presentation, consider advanced imaging and orthopedic oncology referral for treatment of benign tumor</td>
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<tr>
<td>2</td>
<td>Low Risk</td>
<td>Asymptomatic geographic lytic lesion without suspicious periosteal reaction or deep endosteal erosion&lt;br&gt;Typical location and/or matrix of a common benign bone lesion&lt;br&gt;Example: Enchondroma, giant cell tumor, aneurysmal bone cyst</td>
<td>Short interval (3-6 month) surveillance to ensure stability&lt;br&gt;Consider advanced imaging to assess tumor composition and possibly biopsy to confirm benignity if needed&lt;br&gt;Consider orthopedic oncology referral for surveillance or treatment of benign tumor</td>
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<td>3</td>
<td>Intermediate Risk</td>
<td>Geographic lytic lesion in a patient with primary malignancy elsewhere&lt;br&gt;Example: Geographic, but ill-defined lytic lesion</td>
<td>Orthopedic oncology referral for probable biopsy and treatment planning&lt;br&gt;Recommend advanced imaging such as CT, MRI, or bone scan for further characterization</td>
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<tr>
<td>4</td>
<td>High Risk</td>
<td>Malignant until proven otherwise&lt;br&gt;Geographic lytic lesion with aggressive periosteal reaction or soft tissue mass&lt;br&gt;Example: Non-geographic osteolytic lesion</td>
<td>Orthopedic oncology referral for recommended biopsy and treatment planning&lt;br&gt;Advanced imaging for tumor staging including additional sites of disease</td>
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**MARGINS**
- IA = 1
- IB = 3
- II = 5
- IIIA-C = 7

**PERIOSTEAL REACTION**
- None = 0
- Non-aggressive = 2
- Aggressive = 4

**ENDOSTEAL EROSION**
- Mild = 0
- Moderate = 1
- Deep = 2

**PATHOLOGICAL FRACTURE**
- If YES = 2

**SOFT TISSUE MASS**
- If YES = 4

**KNOWN PRIMARY CANCER**
- If YES = 2

**TOTAL POINTS**