

Abstract: This study aims to investigate the impact of orthopedic oncology on patient outcomes and quality of life. The research focuses on the clinical and radiological findings in patients with primary bone tumors and metastatic disease.

**Methods:** A retrospective analysis of 100 patients with primary bone tumors and 150 patients with metastatic disease was conducted. Clinical and radiological data were collected from medical records and imaging studies.

**Results:** The study found that primary bone tumors were most commonly located in the long bones of the extremities. Metastatic disease was most frequently observed in the spine and pelvis. The majority of patients presented with pain and functional impairment.

**Conclusion:** Orthopedic oncology plays a crucial role in the management of bone tumors. A multidisciplinary approach involving orthopedic surgeons, oncologists, and radiologists is essential for optimal patient care and improved outcomes.

**Keywords:** Bone tumors, Orthopedic oncology, Metastatic disease, Quality of life, Patient outcomes.

## Introduction

Orthopedic oncology is a specialized branch of orthopedics that focuses on the diagnosis and treatment of primary and secondary bone tumors. The field has seen significant advancements in surgical techniques, medical oncology, and radiation therapy over the past few decades. This study aims to explore the clinical and radiological findings in patients with primary bone tumors and metastatic disease, highlighting the importance of a multidisciplinary approach in the management of these complex conditions.

Primary bone tumors are relatively rare, accounting for approximately 1% of all solid tumors. The most common types include osteosarcoma, chondrosarcoma, and Ewing sarcoma. Metastatic disease, on the other hand, is a common complication of various primary malignancies, with breast and lung cancer being the most frequent sources. The clinical presentation of bone tumors is often nonspecific, with pain and functional impairment being the most common symptoms. Radiological findings, such as lytic or sclerotic lesions, can provide valuable information for diagnosis and treatment planning.

Corresponding Author: Muran A, et al. Email: [muran.a@journalortho.com](mailto:muran.a@journalortho.com)

**Received:** 10-05-2023 **Editor assigned:** 10-05-2023 **Reviewed:** 10-05-2023 **Revised:** 10-05-2023 **Published:** 10-05-2023

**Citation:** Muran A, et al. (2023) Does Orthopedic Oncology Improve Patient Outcomes? *J Orthop Oncol* 4(1): 1-10.

**Copyright:** © 2023 Muran A, et al. This is an open access article distributed under the terms of the Creative Commons Attribution License, which permits unrestricted use, distribution, and reproduction in any medium, provided the original author and source are credited.



...a e ... b ba Ne Y ... ea ca e ...  
We e ... ad e ea ... be ee ... ace/e ...  
c ec ... ca (eda c e), ee fed ca ... ad ...  
e ae ce/ a ... e . Sa ca a a e c c ded a ... ee  
ee ... ca d ee ce be ee ... ae ce f be ... b e  
e ... ad ea e c a ... e ... ae fd ee ... aca ad  
ec ... c bac ... d. ... c ... e ... ee a e f e  
b ba c e ... eU edSae ... ee ea e ... ed ... dbe  
a, ... ee f ... e de a a a ee a e ec ... e ded  
a ea bec ea e e . D ... a e ee ea d ... a e  
a be ... c ... eedac ... ea ea f ea ca e, ...  
ee a ... daa d cae a cae de ee de a ... ee a ... f  
be ... b e ... a ... NY ba ed ... a e .

Be ... b e ... ae e ... a c ... ce e ... a ... e  
a ec ... eda c ... a . F ... ea , e ... ed da a e  
a a ... e ea ... be ee ... ca de e ... a f ea a d  
e ... ae ce/ a ... e f be ... b ee . H ee, de  
a e e ... ad ... ea ... e ... a ... ace [12]. I  
e e ... fca ... a faca be ... e , a d b P ...  
e a . e ... ed a ... ad ... e ... c ec ... c ... a  
a ca ed ... e ... ca ... c e a d cea ed ... ea e  
c ... ca ... c a cea ed e ... f a , ... bd , a d ... a .  
A ... a a e dd ... c de ca ... a faca e  
e ... a ... de e ea ... e a ba e ... a a cea e e  
e ... d f ... a e ... ce ... b ... a ca ea d cea ed  
e ...

de la a d a e be ee a e ace a d ca a e  
a a e e a . O a a c c ded a a a  
c ec c fac e e a ca ed cea ed c de ce  
f e e a b e e f a a c a de f e a e .