

# **An evaluation of preoperative neoadjuvant therapy by PET for musculoskeletal tumors**

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## **Abstract**

In this study, we evaluated usefulness of PET for musculoskeletal tumors. We applied 6 cases whom came our hospital during April, 1999 to March, 2004, 4 cases of osteosarcoma and 2 cases of Ewing's sarcoma. We performed MRI, CT imaging and PET. PET was reported by many authors that was supported diagnosis of tumor malignancies and tumor proliferation. In our cases, showed total necrosis or partial response by neoadjuvant therapy of the tumors, MRI imaging were similar to PET imaging. But it was so difficult for evaluating such cases. PET imaging showed like NC or PD cases suggesting good responder or non-responder. SUV indicated so useful data for PR or PD cases. The cases whom SUV decreased over 50% suggested good responders.

PET imaging was so useful technique as a tumor proliferation and a tumor malignancy. We must challenge to make standard about musculoskeletal tumors for PET imaging.