

Femoral Metastasis in Bone Mineral Densitometry

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Abstract

A 50-year-old female patient referred by the department of breast and thyroid surgery was recommended for orthopedic surgery because lesion like herniation pit was found in the left proximal femur in bone mineral densitometry (BMD). She was later diagnosed with bone metastasis on biopsy in orthopedic surgery. Pelvic X-ray and Lt thigh MRI were performed. Intra-medullary nail was operated later.

The BMD is a diagnostic method that determines the results by numerical values, so it is inevitable to neglect to observe the bone shape, but as shown in the above case, the examiner's observation of changes in bone shape can return to beneficial treatment for patients.

Key Words Bone Mineral Densitometry, Bone Metastasis, Intra-Medullary Nail

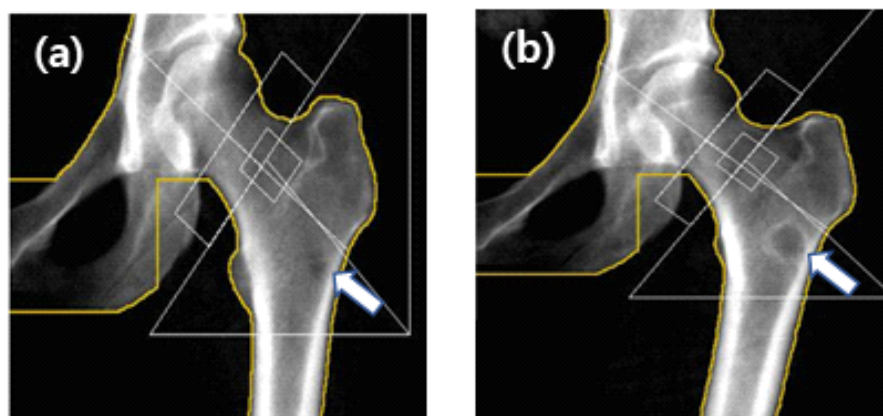


Fig. 1. A lesion (arrow) like herniation pit was observed in proximal femur in bone mineral densitometry (a) conducted in January 2017. Bone density imaging (b) performed again showed that the lesion (arrow) became larger in January 2019.

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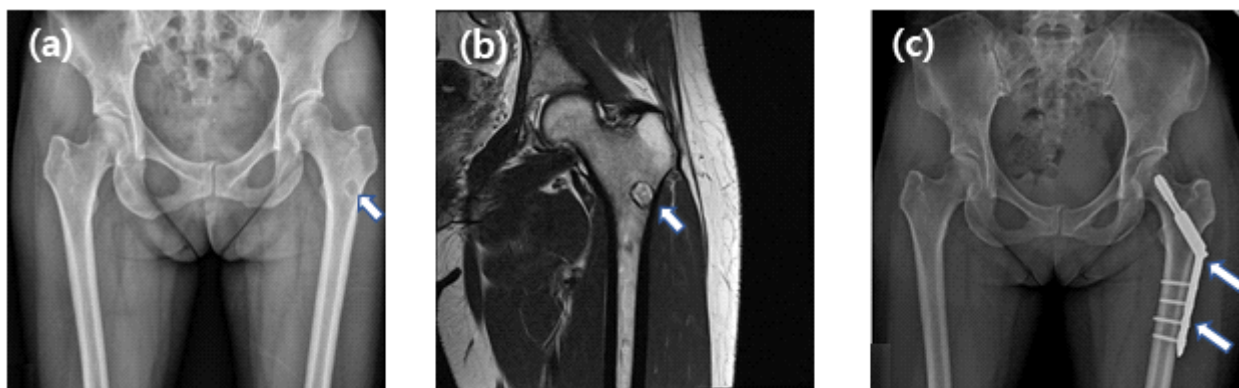


Fig. 2. A lesion (arrow) was observed in proximal femur in the pelvis AP image (a) performed on April 2019. Bone metastasis was observed in the proximal femur in Lt thigh MRI image (b) conducted on March 2019. Intra-medullary nail (arrows) on the left femur neck and shaft was observed in a pelvis AP image (c) conducted on April 2019.

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