

Interesting Image

Femoral Mass in Bone Mineral Densitometry

Han-Kyung Seo*, Do-Cheol Choi, Cheol-Min Shim, Jin-Hyeong Jo

Department of Nuclear Medicine, Jeonbuk National University Hospital, Jeonju, Korea

*Corresponding Author : Han-Kyung Seo, Department of Nuclear Medicine, Jeonbuk National University Hospital, 634-18 Keumam-dong, Duckjin-gu, Jeonju, Jeonbuk 561-712, Korea, Tel : +82-63-250-2326, E-mail : shg@jbuh.co.kr

ABSTRACT

A 55-year-old female patient, referred by the endocrine metabolism department, was recommended for orthopedic surgery because a lesion was found in the proximal femur in the bone mineral densitometry (BMD). Pelvis AP and frog-leg images performed by the orthopedic department found an intraosseous mass (more likely a benign tumor) in the greater trochanter of the left femur. However, she did not need special treatment and decided to keep observing. The role of a radiologic technologist is important in BMD and it provides significant assistance in the treatment of patients.

Key words: Bone Mineral Densitometry, Intraosseous Mass, Greater Trochanter

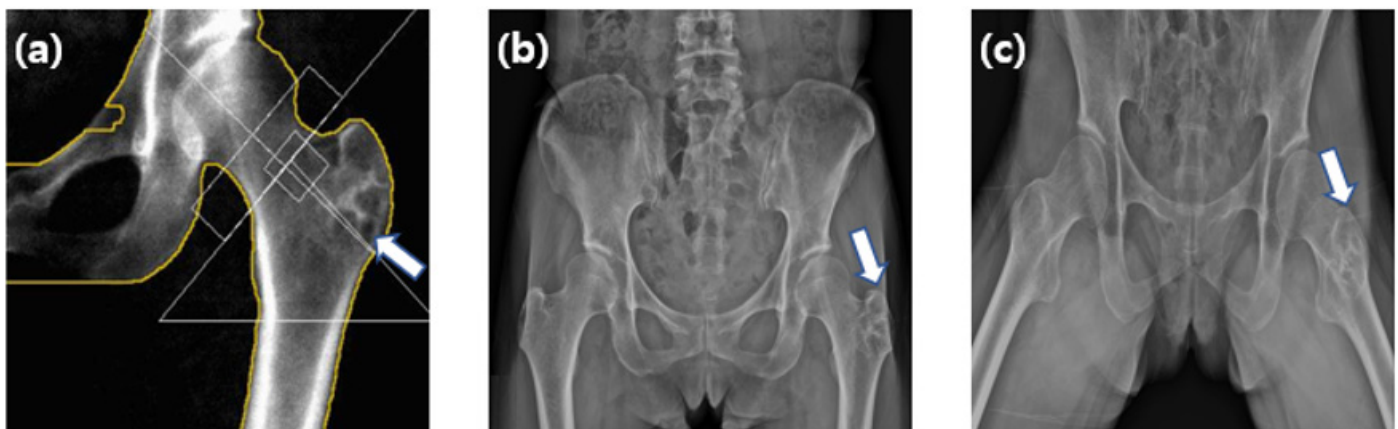


Fig. 1. Lesion(arrow) was observed in the proximal femur(a) in bone mineral densitometry conducted in February 2018. Pelvis AP (b) and frog-leg (c) images performed by the orthopedic department found an intraosseous mass(arrow) in the greater trochanter of left femur in February 2018.

REFERENCES

1. Torisu T, Chosa H, Kitano M. Rheumatoid synovial cyst of the hip joint. Clin Orthop Relat Res. 1978;(137):191-4. Retrieved from <https://pubmed.ncbi.nlm.nih.gov/743828/>
2. Seo HK, Shim CM, Choi DC. Femoral metastasis in bone mineral densitometry. Korean J Nucl Med Tech. 2023;27(1):1-2. DOI: <http://dx.doi.org/10.12972/kjnmt.20230001>

3. Seo HK, Shim CM, Choi DC, Jo JH. Femoral cystic lesion in bone mineral densitometry. *Korean J Nucl Med Tech.* 2023;27(1):3-4. DOI: <http://dx.doi.org/10.12972/kjnmt.20230001>
4. Staple TW. Arthrographic demonstration of iliopsoas bursa extension of the hip joint. *Radiology.* 1972;102:515-6. DOI: <http://dx.doi.org/10.1148/102.3.515>
5. Yukata K, Nakai S, Goto T, Ikeda Y, Shimaoka Y, Yamanaka I, et al. Cystic lesion around the hip joint. *World J Orthop.* 2015;6(9):688-704. DOI: <http://dx.doi.org/10.5312/wjo.v6.i9.688>
6. Feng H, Wang J, Xu J, Chen W, Zhang Y. The surgical management and treatment of metastatic lesions in the proximal femur: A mini review. *Medicine (Baltimore).* 2016;95(28):1-6. DOI: <http://dx.doi.org/10.1097/MD.0000000000003892>
7. Menck H, Schulz S, Larsen E. Metastasis size in pathological femoral fractures. *Acta Orthop Scand.* 2009;80:151-4. Retrieved from <https://pubmed.ncbi.nlm.nih.gov/3364183/>
8. Lee E, Choi JA. Associations between alpha angle and herniation pit on MRI revisited in 185 asymptomatic hip joints. *Korean J Radiol.* 2015;16(6):1319-25. DOI: <http://dx.doi.org/10.3348/kjr.2015.16.6.1319>
9. Guo Z, Xu L, Su YB, Cheng XG. Correlation between the prevalence of herniation pits and alpha angle of the hip: Computed tomography evaluation in healthy Chinese adults. *BMC Musculoskelet Disord.* 2013;14:288. DOI: <http://dx.doi.org/10.1186/1471-2474-14-288>