

[ PICTURES IN CLINICAL MEDICINE ]

## Incidentally Discovered Paget's Disease of Bone

Katsutoshi Takahashi<sup>1</sup>, Yuujirou Aozaki<sup>1</sup>, Toshiyuki Unno<sup>2</sup> and Hiroaki Ishizuka<sup>3</sup>

**Key words:** Paget's disease of bone, computed tomography, bone scintigraphy, alkaline phosphatase

(Intern Med 60: 155-156, 2021)

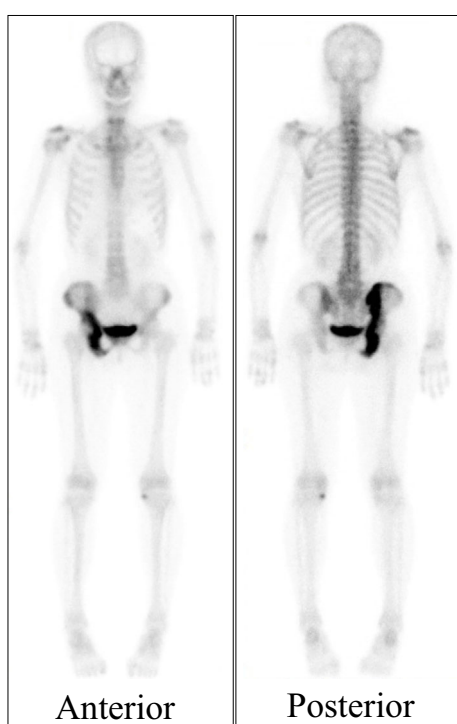
(DOI: 10.2169/internalmedicine.4886-20)



Picture 1.



Picture 2.



Picture 3.

A 78-year-old woman visited our hospital for a preventive medical checkup. Computed tomography was performed to rule out renal cell carcinoma, as suggested by abdominal ultrasound. The result was negative, but it revealed heterogeneous sclerotic lesions with cortical thickening in the right ilium, suggesting Paget's disease of bone (PDB, Picture 1). Although she was asymptomatic, plain radiography showed sclerotic lesions (Picture 2), and whole-body <sup>99m</sup>Tc-methylene diphosphonate (MDP) bone scintigraphy demonstrated an increased uptake only in the right pelvis, reflecting localized activity (Picture 3). Laboratory tests showed mild elevations of serum alkaline phosphatase (ALP: 368 U/L, reference range: 104-338 U/L) and bone-specific ALP (28.1 mg/L, 3.8-22.6 mg/L) with normal serum calcium, phosphorus and gamma-glutamyl transpeptidase levels. After excluding metastatic bone diseases, we diagnosed the patient with PDB. PDB is a disorder of accelerated bone remodeling that occurs in the aging skeleton, leading to profound changes in bone architecture and appearance. Our patient is being followed for the further elevation of serum ALP levels and bone pain, for which bisphosphonates are indicated (1, 2).

**The authors state that they have no Conflict of Interest (COI).**

<sup>1</sup>Division of Metabolism, Showa General Hospital, Japan, <sup>2</sup>Division of Radiology, Showa General Hospital, Japan and <sup>3</sup>Division of Preventive Medical Checkup, Showa General Hospital, Japan

Received: March 19, 2020; Accepted: July 19, 2020; Advance Publication by J-STAGE: September 12, 2020

Correspondence to Dr. Katsutoshi Takahashi, ktakasa@gmail.com

## References

1. Ralston SH, Corral-Gudino L, Cooper C, et al. Diagnosis and management of Paget's disease of bone in adults: a clinical guideline. *J Bone Miner Res* **34**: 579-604, 2019.
2. Lalam RK, Cassar-Pullicino VN, Winn N. Paget disease of bone.

*Semin Musculoskelet Radiol* **20**: 287-299, 2016.

The Internal Medicine is an Open Access journal distributed under the Creative Commons Attribution-NonCommercial-NoDerivatives 4.0 International License. To view the details of this license, please visit (<https://creativecommons.org/licenses/by-nc-nd/4.0/>).

---

© 2021 The Japanese Society of Internal Medicine  
*Intern Med* 60: 155-156, 2021