

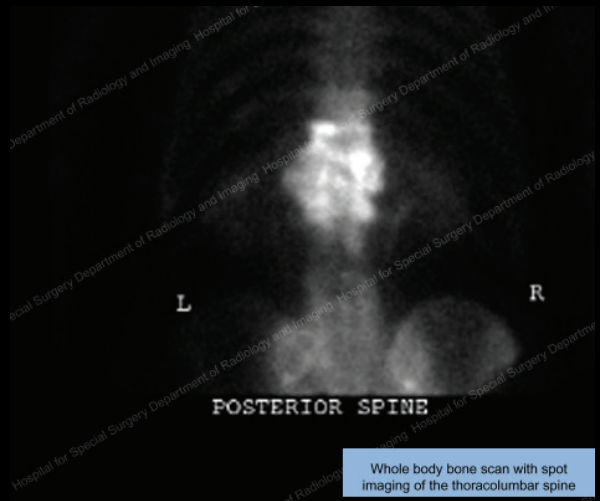
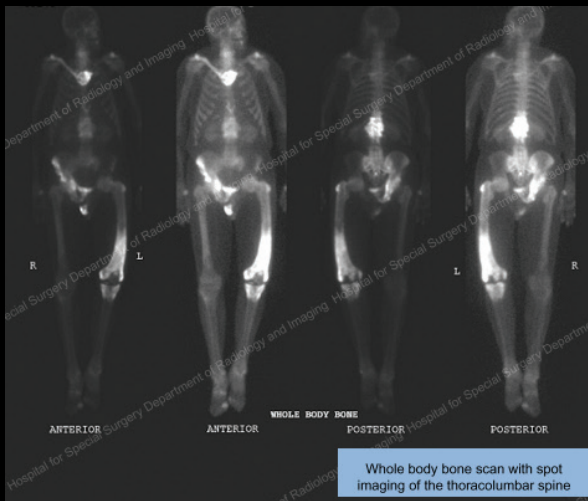
65 year old man
with thoracolumbar
pain presents
in January 2005.

AP radiograph of the area of interest
is submitted from January 2005.

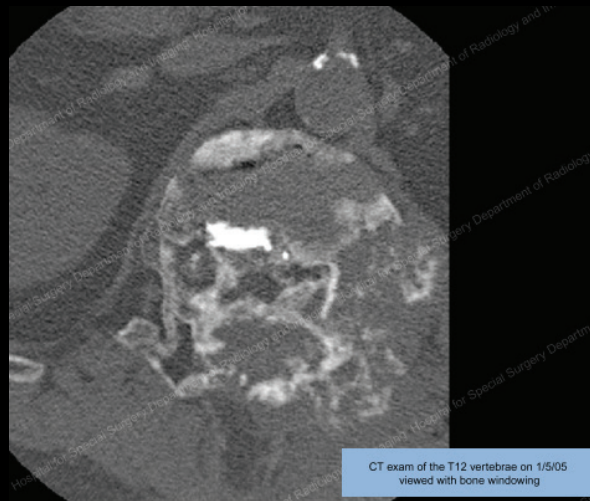
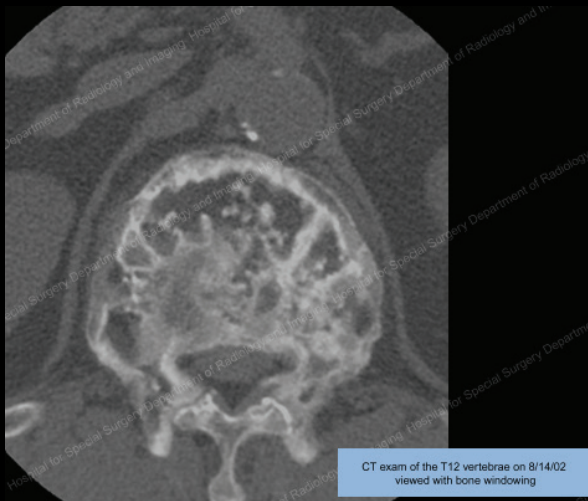
AP radiograph of the area of interest submitted January 2005.

History

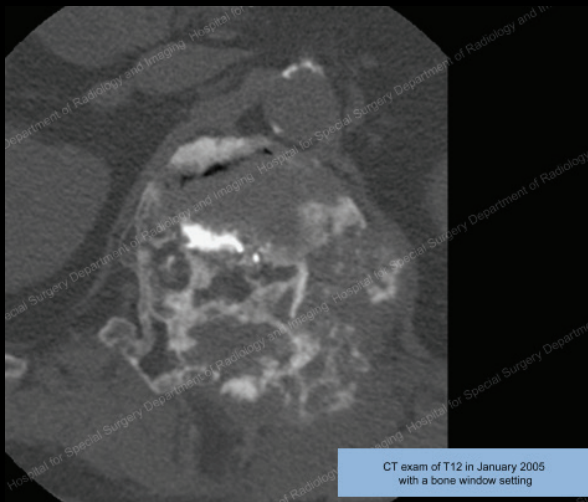
65-year-old man with thoracolumbar pain presents in January 2005.



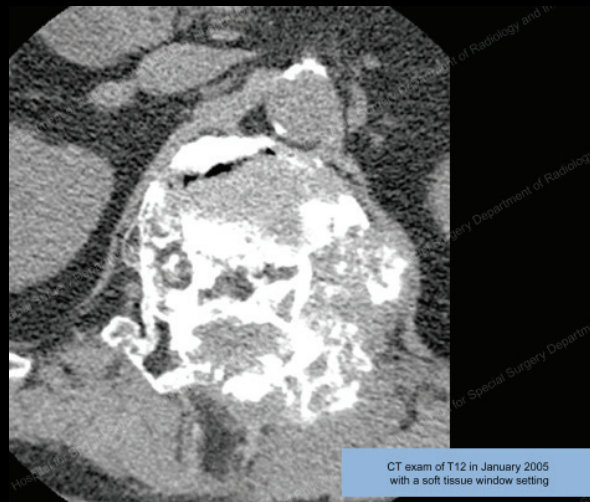
Whole body scan with spot imaging of the thoracolumbar spine.



CT exam of the T12 vertebrae on 8/14/02 and 1/5/05 viewed with bone windowing.



CT exam of T12 in January 2005 with a bone window setting.



CT exam of T12 in January 2005 with a soft tissue window setting.

Findings

- Radiographs: Sclerosis of the thoracolumbar junction and coarse, thickened trabeculae of the right innominate bone.
- Bone Scan: Multiple areas of increased radiotracer uptake involving the right hemipelvis, left femur (extending to the end of the bone), and thoracolumbar junction.
- Computed tomography: Cortical thickening, expanded bone, and coarse trabeculae on 8/14/02. Bony destruction and a soft tissue mass on the corresponding images of 1/2005.

Diagnosis: Paget Sarcoma

Comments: Paget disease is a fairly common disease of the older patient population classically manifest by cortical thickening, enlarged bone, and thickened, coarsened trabeculae. Multiple complications are well known including fracture, cranial nerve impingement, and malignant transformation. Most commonly this involves degeneration to an osteosarcoma as in this case but may alternatively be a fibrosarcoma, malignant fibrous histiocytoma, or chondrosarcoma.

Resources

- Resnick, D and Kransdorf, M. Bone and Joint Imaging 3rd Edition. 2005.
- Scottish Bone Tumor Registry; Sharma H, Mehdi SA, MacDuff E, Reece AT, Jane MJ, Reid R. "Paget sarcoma of the spine: Scottish Bone Tumor Registry experience." Spine. 2006 May 20;31(12):1344-50.
- Scutellari PN, Giorgi A, De Sario V, Campanati P. "Correlation of multimodality imaging in Paget's disease of bone." Radiol Med (Torino). 2005 Nov-Dec;110(5-6):603-15. English, Italian.
- [Emedicine.com](http://emedicine.com). Paget disease.

Acknowledgments

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