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**Trimethylamine N-Oxide and Cardiovascular Outcomes in Patients with ESKD Receiving Maintenance Hemodialysis**


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**Benefits and Barriers to and Desired Outcomes with Exercise in Patients with ESKD**

Danielle Moorman, Rita Suri, Swapnil Hiremath, Januvi Jegatheswaran, Teerath Kumar, Ann Bugeja, and Deborah Zimmerman

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Erratum

**Correction**

Nephro pharmacology for the Clinician

**Clinical Pharmacology of Oral Anticoagulants in Patients with Kidney Disease**

Nishank Jain and Robert F. Reilly
On the Cover

What’s the diagnosis?
A dialysis dependent female presented to the emergency department with acute back pain and lower extremity weakness. Due to lack of insurance she underwent dialysis 1-2 times a week and received insufficient treatment of her bone disease. She had persistent hyperphosphatemia, hypocalcemia and hyperparathyroidism. On physical exam she had a palpable mass of the lower rib cage and tenderness over the thoracic spine. Laboratories were remarkable for serum calcium of 10.3 mg/dL (normal 8.5-10.2 mg/dL) and serum PTH of 2476 pg/mL (normal 10-65 pg/mL). MRI demonstrated lytic masses causing cord compression at T3 and spinal canal stenosis at T12.

She underwent urgent neurosurgical resection at T3 and pathology confirmed brown tumor with giant cells and hemosiderin. One week later she had a subtotal parathyroidectomy (3 of 4 glands removed). Pathology showed enlarged, hypertrophied glands. MRI months later showed regression of the T12 tumor. Her PTH has remained at goal and calcium and phosphorus are at target on supplementation.

Left Image: brown tumors causing spinal cord compression at T3, spinal canal stenosis at T12
Middle Image: tan-brown soft tissue fragments mixed with spindle cells and proliferation of giant cells
Right Image: post-operative changes at T3 and regression of T12 tumor after parathyroidectomy

Brown tumors can be localized to any skeletal bone, commonly the maxilla/mandible. Occurrence in the vertebral column is unusual; especially with neurological manifestations. The pathophysiology leading to brown tumors is complex and medical management consists of treating the underlying secondary hyperparathyroidism. When medical management fails, parathyroidectomy is necessary.

Text and images were provided by Ravina Patel, MD, Baylor University Medical Center, Nephrology, Dallas, Texas; Michael Wiederkehr, MD, Baylor University Medical Center, Nephrology, Dallas, Texas; Daniel A. Savino, MD, Pathologists Bio-Medical Lab - Pathology and Baylor University Medical Center, Pathology, Dallas, Texas; and Gregory Deprisco, MD, Center for Diagnostic Imaging, Radiology, Dallas, Texas