

PTH values: 223 pg/L. Scan of parathyroid gland (Fig.3) showed that there was hyperactivity of parathyroid glands. Therefore, in July 2012 the patient was surgically treated at the Clinic for thoracovascular surgery - Skopje, and was confirmed adenoma of the parathyroid gland. During the hospitalization the values of Ca, AP and PTH were high that is why she was treated with parenteral bisphosphonate.



Figure 1 Fractura tibiae et fibulae



Figure 2 Tu giganto cellularae humeri lat. sin.

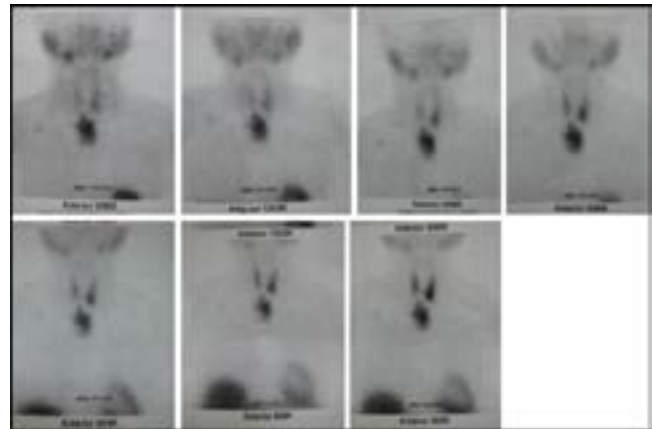


Figure 3 Parathyroid scintigraphy with Tc-99m sestamibi demonstrating persistent radiotracer accumulation at the substernal area, compatible with a hyperfunctioning parathyroid adenoma.

After hospitalization the patient continued with the therapy; tabl. Ca 1000 mg twice per day, tabl. Rocaltrol 0.5 mg once per day and tabl. Fosamax 70 mg weekly. But despite the treatment, bone quality did not improve. The PTH blood values: 172...223 pg/l.

May 2013- SE: 30; Le: $2.6 \times 10^{10} \mu\text{L}$; urina sediment: leukocyte mass, mass of bacteria, urate crystals, uric acid crystals, ALT: 78.4 UI/L; AST: 55 UI/L, AP: 372.0; Na:152; Ca; 2.17 mmol/; Ca jon: 1.10 mmol/l.

Postoperative examinations

Right hip and limb x-ray , October-2013: Generally expressed osteoporosis. Pathological fracture of the right femur in the neck-based area. Pathological and poorly repaired fracture of the distal part of the diaphysis of the left femur. Surgically resolved pathological fractures of both calves.



Figure 4 Hyperparathyroidism signs