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RESEARCH ARTICLE

MULTIFOCAL BROWN TUMOR REVEALING PRIMARY HYPERPARATHYROIDISM.

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Abstract

The brown tumor or fibrocystic osteitis is a rare bone lesion secondary to hyperparathyroidism. It can affect the whole bone skeleton with sometimes-infrequent locations. We present a case of multiple brown tumors with unusual bone localization revealed by a phosphocalcic metabolic disorder and primary hyperparathyroidism. After hypocalcemic medical treatment and targeted parathyroid surgery, the evolution was favorable with immediate normalization of parathyroid hormone. This case focuses on the role of ^{99m}Tc-Sestamibi functional imaging to optimize the diagnostic orientation and therapeutic strategy of this type of tumor.

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Introduction:-

Brown tumors secondary to hyperparathyroidism are rare, historical lesions found in 4.5% of patients with primary hyperparathyroidism, most often mandibular [1, 2, 3].

Rare cases of localization in the long bones have been reported [1]. They cause osteolytic bone lesions that can mimic a malignant bone tumor.

Observation:

We report the case of a 42-year-old patient referred for investigation of a diaphyseal tibial bone tumor in a context of deterioration of the general condition.

Clinical examination revealed a fixed, deep, painful palpation at the anterior surface of the upper third of the right tibia.

Standard radiography showed an osteolytic cleft in the middle third of the right tibia with coronary break-in and a periosteal reaction. The phosphocalcic balance showed a hypercalcemia of 126 mg / l and a hypophosphatemia of 17 mg / l. The intact PTH was very high at 1200pg / ml.

The cervico-thoracic CT scan revealed a left lower left parathyroid nodule and very many diseased bone lyse. (Mandibular, scapula, humerus, cranial vault). Proteemia and electrophoresis of serum proteins without abnormalities. After performing a parathyroid scan with Sestamibi ⁹⁹ Tc Fig1 Surgical excision of the pathological parathyroid pathological process was performed Fig2.

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The anatomopathological study was in favor of parathyroid hyperplasia. The evolution was marked by a spectacular normalization of serum PTH.

Discussion:-

Brown tumors are benign, osteolytic bone lesions, rare, found in 4.5% of patients with primary hyperparathyroidism and 1.5 to 1.7% of those with secondary hyperparathyroidism [3,4].

They can affect the whole skeleton, the most frequent localizations are the pelvis, the ribs, the mandible and the hands [3]. The localization at the level of the long bones in particular the tibia is extremely rare [1,5].

The diagnosis of a brown tumor can sometimes be difficult, mimicking a primary malignant bone tumor or bone metastasis, especially if the lesion is unique and accompanied by inflammatory bone pain evolving in a context of deterioration of the general state [1],

Conclusion:-

This work focuses on the role of ^{99m}Tc -Sestamibi ^{99m}TC functional imaging to optimize the diagnostic orientation and therapeutic strategy of this type of tumor.

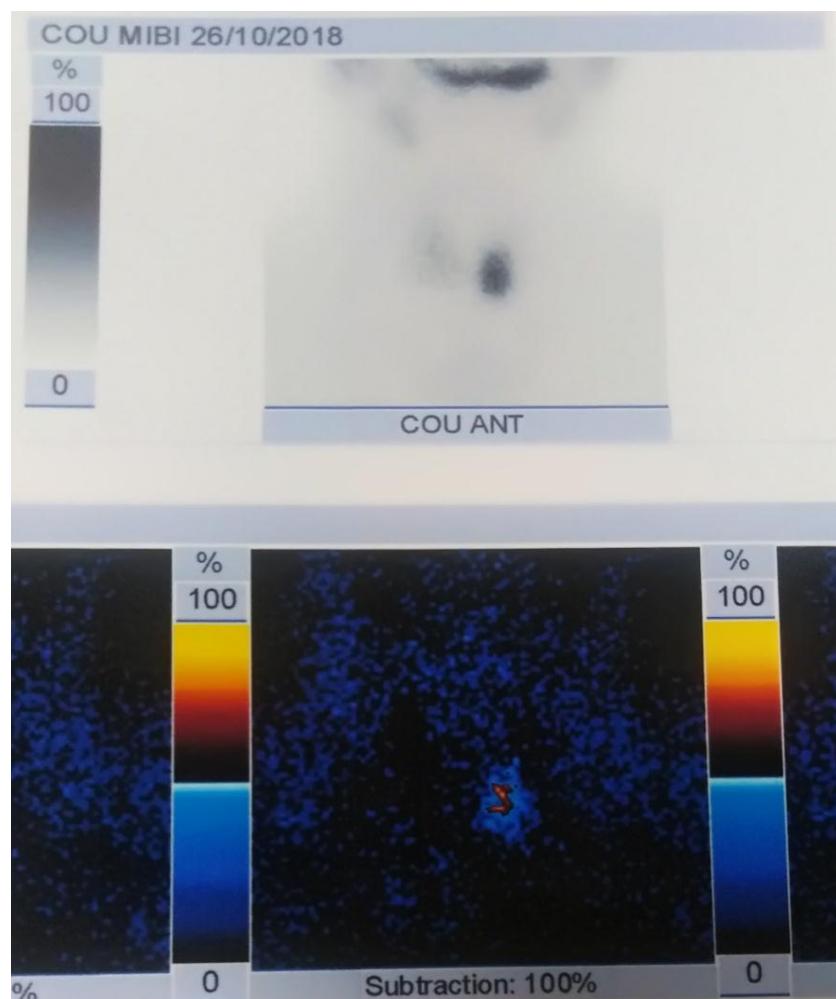


Figure 1:-Scintigraphie parathyroïdienne au Sestamibi ^{99}Tc .

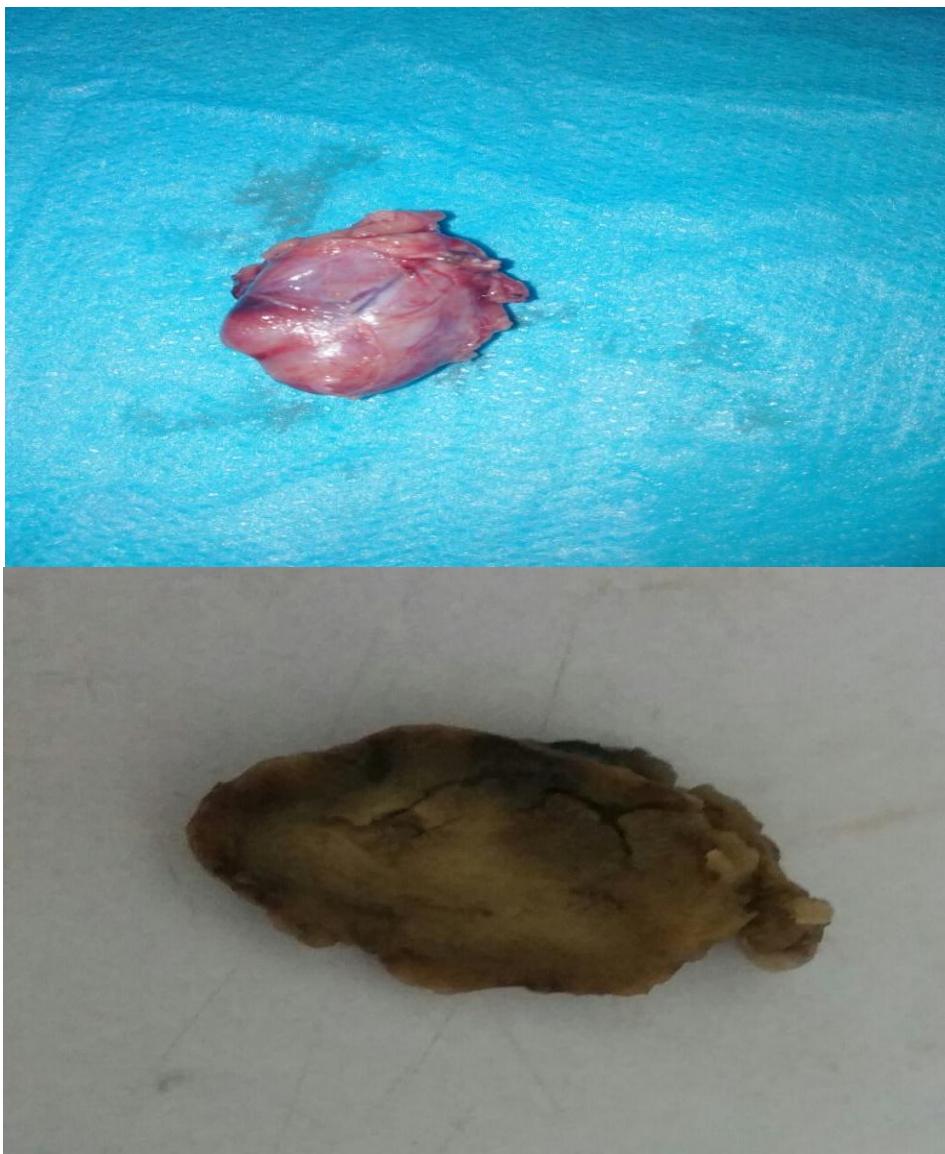


Figure 2:-Aspect macroscopique du nodule parathyroïdien.

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