Chirurgia (2019) 114: 300-306
http://dx.doi.org/10.21614/chirurgia.114.2.300

A Rare Case of a Testicular Teratoma Associated with a Neuroendocrine Tumour

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Abstract

Introduction: We report a rare case of testicular teratoma combined with a neuroendocrine tumour, emphasizing the difficulty of the following aspects: the clinical and laboratory diagnosis, the treatment options and the evolution of patients suffering from this disease.

Case presentation: The patients with testicular neuroendocrine tumours represent a rarity, considering that as of 2017, only 22 cases had been reported in the literature. The case operated on in our clinic presents an association between a testicular teratoma and a neuroendocrine tumour. A 39-year-old patient was admitted in our Department for a non-painful abdominal tumour and concomitant testicular tumour. The serum tumour markers (β-human chorionic gonadotropin, α-phetoprotein and lactate dehydrogenase) were within normal limits. Lung and bone metastases were diagnosed CT scan. The histopathological diagnosis consisted of immunohistochemical study of the orchidectomy specimen as well as of the bioptic material from bone marrow puncture.

Conclusions: The diagnosis of testicular carcinoids is based on immunohistochemistry study. Radical orchidectomy is the only potentially curative treatment for this type of malignancy. Adjuvant chemotherapy determined size reduction of the lung and bone metastases and the disappearance of the lymph node metastases.

Key words: testicular cancer, neuroendocrine tumours