Teratoma Growing Syndrome: A Case Report and Literature Revue
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Abstract
Teratoma growing syndrome is rare pathology in patients with non seminomatous germ cell tumors characterized by the increase in volume during chemotherapy of the tumor masses, whether retroperitoneal or at other metastatic sites. We report the case of a "growing teratoma syndrome" presenting as a retroperitoneal mass occurring in a patient previously treated by orchidectomy and chemotherapy for a non seminomatous mixed germ cell tumors of the testis without teratomatous component which run fatal because of the lake of follow.

Keywords: Teratoma, chemotherapy, retroperitoneal masses.

INTRODUCTION
The “growing teratoma syndrome” is a rare and often overlooked development of non-seminomatous germ cell tumors of the testicle, defined for the first time by Logothetis in 1982. It is a benign condition if it is taken care of early. It’s exact pathogenesis is not clearly defined and its treatment is based on a surgical exercise of the mass when it is extirpable.

OBSERVATION
17 years old young men presented in our hospital with abdominal pain and abdominal distention. He was treated in another hospital for a testis tumor and underwent left orchidectomy. The anatomopathological examination reveals a non seminomatous germ tumors refering to a teratoma; he begins chemotherapy two months later.

Unfortunately and due to bad social and financial condition of the patient he was lost of vue and didn’t make a adequate follow up. The examination of patients found a young man in bad general state; abdominal distention and a palpable abdominal mass.

The patient came in our departement with two topographies: The first one shows a large, poorlyvascularized tissue mass in the retroperitoneum, pushing outside the left kidney and with hydrenephrosis. This mass is polylobed and measures 14 13 12 cm (figure 1). The second tomography realized one year after showed a retroperitoneal mass currently measuring 14.1X13.5 extended over 28.5 cm height (figure 2). Progression of the retroperitoneal tumor in the cranial cranial side. Tumor markers were normal.

The decision was to perform a surgical resection of the mass. The patient was then taken to the operating room. A median incision straddling the umbilicus was made; the surgical exploration finds a mass adhering to the meso also taking the vessels. The mass was at this stage not extirpable (figure 3).

ICONOGRAPHY

Fig-1: First tomography showing a polylobed mass measuring 14x13x12 cm
DISCUSSION

Teratoma growing syndrome, as defined for the first time by Logothetis in 1982, must satisfy three criteria: normalization of tumor markers, increase in volume of the tumor mass in progress or after chemotherapy, as well as the absence of active tissue within this teratoma[1].

Growing teratoma syndrome has a good prognosis when cured by complete surgical excision of the tumoral masses. Complications of this syndrome are due to masses compression. Malignant transformation is also possible.

The suspicion of this syndrome is due to the lumbar pain especially at patients seen late or lost of sight as reported by Andre [2].

Otherwise it’s the tomography control during the chemotherapy which evokes a teratoma growing syndrome... Regular imaging of patients on follow up for malignant GCTs is the key to early diagnosis and treatment.

The pathogenesis of GTS is still unclear. The two most cited mechanisms are: selective chemoinduced destruction of germlinal tumor histological components other than teratoma, the latter being chemo-resistant, and differentiation of malignant totipotent germlinal cells into mature teratoma also induced by chemotherapy [3].

Surgical treatment is the reference treatment. It is classically more difficult due to volume or the connection of these tumor masses with the organs around, particularly in the case of a GTS occurring during follow-up with the difficulties common to secondary surgeries, in particular in their retroperitoneal localization [4].

The complete resection of GTS is mandatory, as ovarian GTS recurrence is reported with rates of 50 to 83% when incompletely resected versus 0 to 4% when complete resection is obtained [5].

The medical management of GTS with interferon alpha, bevacizumab and CDK (cyclin-dependent kinase) inhibitors is experimental.

Unfortunately, the delay in diagnosis was fatal for our patient making the surgical resection of the mass impossible. We wish to emphasize via this article despite the rarity of this pathology the necessity of the adequate follow-up and the discipline of the patients who if not respected makes the prognosis dark despite the benignity of the pathology.

CONCLUSION

Teratoma growing syndrome is a rare and benign condition in patient with non seminomatous germ cells, but the follow up of the patient is necessary, especially with iterative tomographies, it also need coordination between the urologist and the oncologist to have a good outcomes. Surgery is recommended but it remains difficult especially in the bulky teratomas.

REFERENCES