Frantz's tumor with vascular complication in childhood

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Abstract

Background: Frantz's tumor or Solid pseudopapillary tumor (SPT) is a rare tumor that accounts for 1-3% of all pancreatic tumors of the pancreas, in addition, it has low degree of malignancy. SPTs have a predilection in female-to-male ratio of 10:1. They are usually seen in women in their 20s or 30s, also in pediatric population but with lower incidence around 0.01 in 100,000 inhabitants, beside this, SPN is the most frequently pancreas solid tumor in childhood.

Presentation of case: We present a young lady 13 YO who has admitted in emergency room due to upper abdominal pain, irradiated to the back and vomiting. SPT is diagnosed with ultrasound, CT and MRI, involving the head of the pancreas and haematoma beside the organ. Cephalic pancreatoduodenectomy was performed urgently. Discharge after 72 hs. Histopathological result tumor size 70 x 60 mm, delimited, brownish, friable and extremely hemorrhagic, with submassive ischemic necrosis in which vascular structures and smalls papillary structures surrounded by cells of hyperchromatic and small nuclei are observed.

Discussion and conclusion: SPT typically occurs in young female patients, in male and children patients are unusual. Less than 50% of it will have bleeding components, although bleeding presentation is not too frequently, it can help as a signal of SPT diagnosis. Surgical approach to SPTs is traditionally open or laparoscopic surgery. The prognosis is good in the long term achieving an excellent survival away from 5 years or more in more than 95% of the patients operated on.

Keywords

Pancreas; Frantz; Pancreatoduodenectomy, Solid Pseudopapillary Tumor; SPT; pancreas tumor; Vascular complication