

## A CASE OF GASTRIC CARCINOID TUMOR WITH LARGE RETROPERITONEAL FIBROTIC MASS

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**Background:** Fibrotic and desmoplastic reaction was reported in patients with carcinoid tumors. Fibrotic reaction of endocardium and heart valves can lead to carcinoid heart disease. Retroperitoneal fibrosis was reported in a only few cases with Ileal carcinoid tumors.

**Case report:** A 50 y/o female developed abdominal pain. She complained episodes of headache and sweating. Past medical history revealed new onset diabetes mellitus. Abdominal CT Scan revealed a large solid tumoral lesion (6 Cm diameter) in right upper paravertebral area located in medial aspect of right kidney and displaced it laterally. Evaluation for hormone production revealed that VMA and Metanephrine of 24-hour urine are in upper limit of normal ranges and dexamethasone suppression test was normal. She underwent surgery and during laparotomy, gastric tumor with hepatic metastasis was found and partial gastrectomy and biopsy of retroperitoneal mass and liver metastasis was done. Pathologic findings included: well-differentiated, low grade carcinoid tumor in antrum of stomach with liver metastasis. IHC study was positive for synaptophysin, NSE, chromogranin and vimentin and negative for SMA and desmin. Biopsy of retroperitoneal mass revealed retroperitoneal fibrosis.

**Results:** In this case with abdominal pain and retroperitoneal large mass lesion in abdominal CT scan, laparotomy revealed gastric carcinoid tumor with liver metastasis and retroperitoneal fibrosis. We considered Upper GI endoscopy and checking for serum gastrin level and administration of octerotide and resection of liver metastases for her.

**Conclusion:** Gastric carcinoid tumors can lead to retroperitoneal fibrosis. We recommend a careful investigation for carcinoid tumor in any patient with un-explained retroperitoneal fibrosis especially in the presence of episodes of headache, palpitation, sweating, dyspnea and flashing.

**Key words:** Gastric carcinoid tumor, Retroperitoneal fibrosis