

### DISCUSSION :

Adult urothelium has the capacity to undergo several pathways of phenotypic cellular and structural differentiation as a result of the embryological origin of the bladder from the multipotent tissues of the cloacal endoderm and the mesodermal wolffian ducts. Studies have shown that

urothelium has the ability to undergo metaplastic change and is supported by cell culture experiments, which showed that glandular, transitional, and squamous differentiation may be developed from a common neoplastic urothelial stem cell.

### CONCLUSION :

The clinical cause of bladder cancer varies depending on the histological type of neoplasm, grade and stage of the tumor. High-grade muscle invasive urothelial cancers and tumors showing variant microscopic morphology have in general, high mortality and poor prognosis.

# Multiple duodenal stromal tumors associated with neurofibromatosis-1

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### INTRODUCTION:

Gastrointestinal stromal tumors (GIST), most commonly occur sporadically, but there seems to be some increased tendency for these tumors to develop in patients with neurofibromatosis 1 (NF1). There is no histological difference between the NF1 associated cases and the sporadic cases. However, tumors associated with NF1 frequently show multiplicity.

### MATERIAL AND METHODS:

A case of multiple duodenal gastrointestinal tumor arising in a 45 years old male with NF1 is reported. Physical examination revealed multiple café au lait spots and discrete cutaneous neurofibromas over the patient's body.

The abdominal exploration

revealed multiple solid nodules in the duodenum and the pancreaticoduodenectomy was performed.

### RESULTS:

- **Macroscopy** : The resected segment of the duodenum showed seven subserosal solid masses. The largest mass measured 3,5cm x 2cm x 3cm. The other tumors were small in size and measured 0,6cm. The principal tumor is coupled with the lower pancreas but remains limited by a capsule. The cut surface was smooth and white in appearance.

- **Microscopy** : The tumors were composed of interlacing fascicles of the uniform spindle cells with elongated cytoplasm. The tumor cells lacked pleomorphism, and

mitotic figures were absent.

### - Immunohistochemistry :

The tumor cells were diffusely positive for CD117, CD34, and negative for desmin, smooth muscle actin and pS100.

### CONCLUSION :

Gastrointestinal stromal tumors are rarely noted in association with neurofibromatosis-1. Duodenal GIST are most frequently diagnosed in the workup of symptoms not specific to these masses.

Duodenal resection is rarely indicated except in the case of duodenal GIST and early stage adenocarcinoma or if the tumor appeared to involve the pancreatic parenchyma on