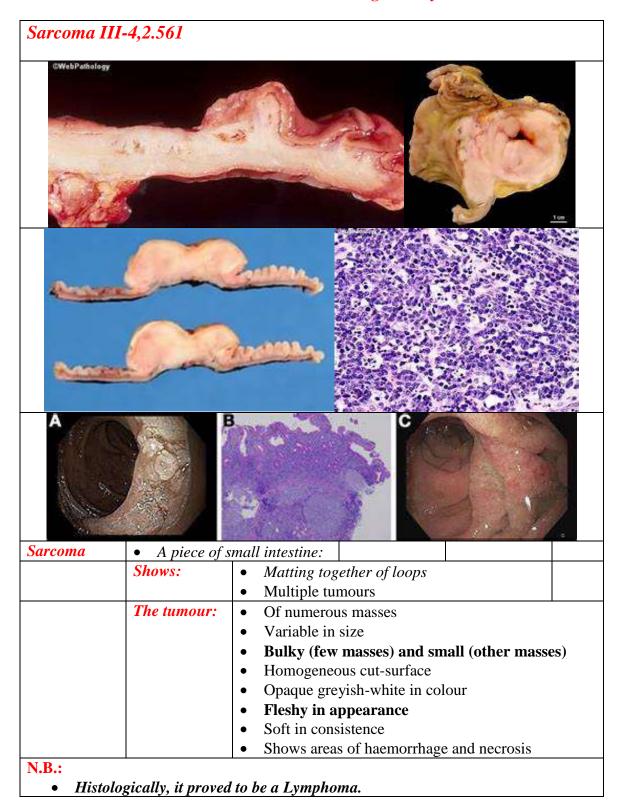
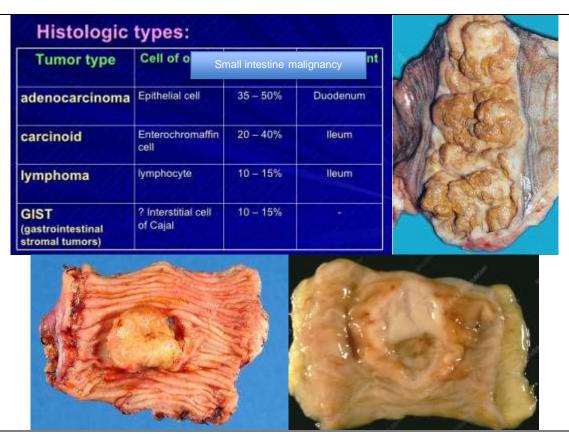
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XVII. Diseases of the Digestive System





Malignant tumour of small intestine are rare in general

1. Carcinoma:

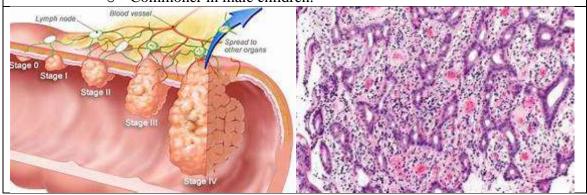
- Usually **annular** (**encircles the gut**); occasionally polypoid.
- Occurs chiefly at proximal part; is usually adenocarcinomatous.
- Is very rare; late to send metastases.

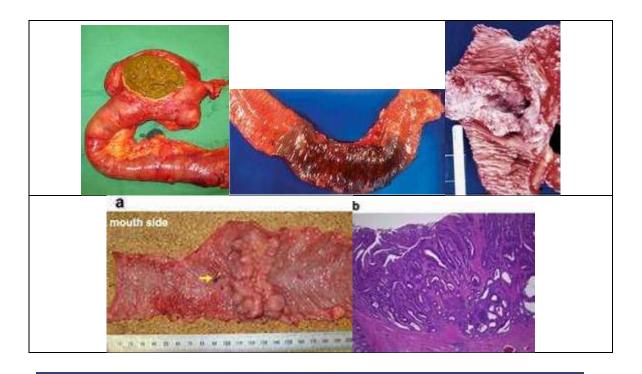
2. Sarcoma:

• Of mesenchymal origin; bulky masses; soft, haemorrhagic and necrotic.

3. Lymphoma:

- **Rather common** (relatively) especially at ileum.
- May be
 - o lymphoma (MALToma) (at one segment then more segments) or
 - o High grade lymphoma (at many segments).
- May be primary (arising in the lymphoid tissue of ileum-wall):
 - o Commoner in male children.

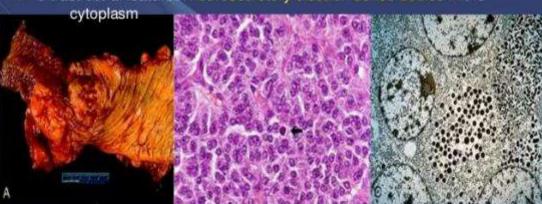




Carcinoid Tumors

Pathological Lesion

- Round submucosal elevations that are bright yellow or yellow-gray, may be deeply infiltrative and penetrate muscle to the serosa.
- Gastric and ileal carcinoids are frequently multiple.
- Tumor cells arranged in trabecular, insular, glandular or undifferentiated patterns are monotonously similar to each other with regular round nuclei
- Ultrastructral features: neurosecretory electron dense bodies in the



4. Carcinoid:

- Whitish-grey and soft. –
- Extends at long axis of gut into the wall then into the mesenteric lymph nodes.
- Metastasizes early into liver, bone marrow and lungs.
- May be secondary (as part of a generalized lymphomatosis):
- Multiple masses (along all small intestine) which may extend deeply till even perforation,
- Is an argentaffinoma which may appear in the proximal part of

- small intestine (25%),
- stomach (5%),
- rectum (5%), or
- colon, pancreas, biliary tree and bronchi (5%);
- these sites are the extra-appendicular sites.
- Single or multiple, small (4-5 cm.) submucosal greyish-yellow rounded firm masses (or a large one) Liable to metastasize to liver, lungs, bones and regional lymph nodes; hence, the carcinoid syndrome.

Due to excess production of the humoral agent 5-HT (serotonin) →

- Cyanosis,
- Flushing of skin,
- Diarrhoea,
- Asthmatic-like attacks,
- Cardiac symptoms,
- Oedema and
- Wasting.

This syndrome is not noticed in the only-locally-invasive (non-metastasizing) appendicular carcinoid (60%).

