Schwannoma of stomach; a rare cause of upper GI bleeding

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Introduction
Schwannoma, a benign tumor of nerve sheath origin, is commonly found in the head and neck, as well as flexor surfaces of the extremities. It can occur very rarely in the stomach with only a few cases being reported. The most common gastrointestinal site is the stomach, constituting 0.2% of all gastric neoplasms (1). Malignant transformation of a gastric schwannoma is very rare (2). They generally are asymptomatic or present with abdominal discomfort or as an epigastric mass. Bleeding may occur in the case of deep ulceration. Schwannoma is diagnosed by upper gastrointestinal endoscopy and biopsy (1). Ultrasound, CT and MRI may help in further evaluation. Surgical resection is curative if it is benign but malignant counterpart requires adjuvant treatment (1).

Case Report
A 65-year old female presented with an episode of haematemesis and vomitus contained nearly 50 mL of fresh blood, mixed with food. She also had recent loss of weight while her appetite was normal. There was no dysphagia but she complained of abdominal bloating and a burning epigastric pain. Bowel habits and stool colour were normal. She didn't have any medical illness and was not on NSAIDS or other drugs. There was no family history of upper gastrointestinal tumours or bleeding diathesis. She was not a smoker or consumed alcohol.

She was wasted and mild pallor was noticed. Virchow's node was not palpable. There was an epigastric mass which was firm and mobile. Liver and spleen were not palpable while the examination of cardiovascular, respiratory, and neurological systems was normal.

Her Hb was 9g/dL while rest of the full blood count, renal functions and clotting screen were within normal limits. Upper gastrointestinal endoscopy revealed a large fundal ulcerated growth and multiple biopsies showed histological features of a Schwannoma with background benign gastric ulcer and active chronic gastritis. While waiting for histology, ultrasound scan was performed and it showed a mass in the stomach. Her liver was normal, ultrasonically, and no intra-abdominal lymphadenopathy was seen. Upper partial gastrectomy with oesophago-gastrostomy and feeding jejunostomy were done. Post operative period was uneventful. Histology confirmed the diagnosis of benign Schwannoma.

Discussion
Schwannomas, also known as neurinomas or neurilemmomas, are generally benign, slow-growing neoplasms originating in any nerve that has a Schwann cell sheath. These neoplasms are rare among the spindle cell mesenchymal tumors of the gastrointestinal tract, but develop most commonly in the stomach representing 0.2% of all gastric tumors (1). Gastrointestinal schwannomas are classified as mesenchymal or neuroectodermal neoplasms. These are a heterogeneous group of tumors arising from the wall of the gastrointestinal tract that include gastrointestinal stromal tumors (GISTs), leiomyomas, leiomyosarcomas, schwannomas, neurofibromas, ganglioneuromas, paragangliomas, lipomas, granular cell tumors, and glomus tumors (2). Of these, GISTs are by far the most common in the stomach and intestines. Malignant transformation of a gastric schwannoma is very rare (2), and only once has been reported in children. Gastrointestinal schwannomas occur most commonly in the stomach (nearly 60%), followed by the colon and rectum. Oesophageal and small-intestinal schwannomas have been rarely reported. These tumors are usually asymptomatic, but in some
cases, bleeding or a palpable mass can be seen. Gastrointestinal endoscopy is the principal diagnostic tool and histopathology confirms the diagnosis. Immunohistochemical assay with CD 117 & Ki 67 help confirmation of the diagnosis further (1). Computed tomography, sonography, and magnetic resonance imaging give added information. During imaging gastric schwannomas usually appear as discrete submucosal masses that are indistinguishable from other mesenchymal tumors. As they outgrow the blood supply, these lesions may undergo central necrosis and ulceration (2).

Treatment is usually local resection without lymphadenectomy (1,3,4). Local resection with 1-2 cm margin is the safer option. If tumour is bigger than 5cm, formal gastrectomy is done (3) (open or laparoscopic hand assisted). If malignant, lymphadenectomy followed by adjuvant therapy is necessary (4).

References


Perinephric Abscess: a rare manifestation of extrahepatic amoebiasis

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Introduction

Extra intestinal amoebiasis occurring in the perinephric region is extremely rare and often mistaken for a pyogenic perinephric abscess. Diagnosis is based on the identification of trophozoites of entamoeba histolytica in the aspirate and the disease is curable with standard anti-amoebal drugs (1).

Case Report

A 45-year old man was admitted with complaints of diffuse abdominal pain, loss of appetite and low grade fever for one week duration. His past medical history was unremarkable. On examination he was febrile and there was left renal angle tenderness. The rest of the clinical examination was unremarkable.

On investigation, his capillary blood sugar was 300mg/dL, total white cell count was elevated with neutrophil predominance and ESR was 90 mm. Ultra sound scan of the abdomen and pelvis showed mixed echogenic lesion in the lower pole of the left kidney [7.9 cm x 4.1 cm] suggestive of a left perinephric abscess. Contrast CT abdomen showed a left perinephric abscess in relation to the lower pole of the kidney (Figure 1). A nephrostomy tube was inserted and anchovy-sauce-like fluid 250cc was removed (Figure 2). Direct smear of the fluid showed Entamoeba histolytica trophozoites (Figure 3). Treatment with intravenous metronidazole was commenced. The drainage continued for two weeks. Repeat ultra sound scan after two weeks of nephrostomy showed no remnants of perinephric abscess, seen previously.