brucellosis is bone marrow culture which is difficult in Sri Lanka. PCR is fast, could be done in any body tissue and becomes positive after 10 days of inoculation (1). Our patient was successfully treated with the combination of oral ciprofloxacin and doxycycline for 6 weeks.

Keeping in mind the possibility of brucellosis in people who are living in temporary camps, mainly in the North, East provinces in Sri Lanka, health care workers should be more alert on early diagnosis and treatment of brucellosis to prevent further spreading.

References

Fatal haemorrhage due to a fish bone in the oesophagus; a case report

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Introduction

Foreign bodies in the upper aero-digestive tract are a common problem. Rupture of the oesophagus is one of the rare yet more dramatic conditions and is an emergency. Studies show that 10% to 20% of foreign body ingestion in the gastrointestinal tract requires endoscopic treatment and its retention in the esophagus may represent risk of severe complications, with rare fatalities. In addition to endoscopic treatment, surgical procedure might be necessary in approximately 1% (1).

Case Report

A 56-year old male was admitted to a surgical ward with a three day history of odynophagia. He had no dysphagia or haematemesis during the admission. There was no history of ingestion of a foreign body. The initial upper gastrointestinal endoscopy and chest radiograph did not reveal any significant changes and the patient was discharged. A week later, he was readmitted due to an episode of haematemesis. The endoscopic examination was repeated and there was a resistance at the upper third of oesophagus due to spasm of the oesophageal wall. Biopsies were taken. The patient suddenly collapsed and died on the next day.

Autopsy revealed a 750 ml of clotted fresh blood in the thoracic cavity, which originated from a point between the oesophagus and the aorta. Further sectioning showed a perforation at the level of the arch of the aorta with a 3.5 cm long fish bone (Fig.1) impacted in the ulcerating aorto-oesophageal fistula (Fig. 2, Fig. 3). Tarry black stools were found in the lower gastrointestinal tract.

References
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Discussion

There are three main categories of patients where swallowed foreign bodies can be found. The commonest is the children between age of 18-48 months, which accounts for about 75% to 80% (2). Second group is psychiatric patients and prisoners where they can swallow bizarre objects including multiple objects. Third main group are the edentulous patients. Healthy adults get this very rarely. Sometimes, patient may be unaware, clinically atypical or ignorant of the impaction of the foreign body until serious complications are set in, as seen in this case (3).

There are three narrowings in the oesophagus which are important when foreign bodies are concerned. The upper oesophageal sphincter which consists of cricopharyngeal muscle is the narrowest part which is 1.5cm in width. Secondly, the crossover of the aorta and the left main bronchus, and third place is the lower oesophageal sphincter. Because foreign bodies tend to get impacted at those places, these areas are more prone to get perforated from foreign bodies. Once the foreign body has passed through the oesophagus, there is more than 90% chance of it passing through the rest of the gastrointestinal tract.

Fish bone as a source of oesophageal foreign body is common in Asian community (4). The most common site of impaction is cervical oesophagus. The second commonest is at the level of the aortic arch (5). The clinical presentation of foreign body in the oesophagus greatly varies from acute pain and dysphagia to mere discomfort in swallowing depending on the type of foreign body and the place of impaction (6). The physical examination and plain radiography is of no help in many cases (7). The flexible oesophagoscopy, even though failed in the present case and carries a significant mortality and morbidity, and Computerized Tomography (8), remain the primary methods of diagnosis.

Vascular injuries causing aorto-oesophageal fistulae are considered to be one of the potentially life-threatening complications. Typically, 45% patients present with chest pain, followed by haematemesis. The triad of mid thoracic pain, sentinel arterial haemorrhage and exsanguination after a symptom free interval has been termed 'Chiari's triad'. The aorto-oesophageal fistula is usually fatal in outcome (9). The surgical intervention by cross clamping of the thoracic aorta for arresting haemorrhage has been
unsuccessful in many patients, and also carries a risk of paraplegia. However, many authors have stressed on importance of early consideration for surgical intervention when confronted with a brisk arterial bleed from the oesophagus with suggestive history of foreign body ingestion (10). The successful treatment requires the combination of surgical intervention with a hypothermic circulatory arrest.

References


A possible case of encephalitis due to H1N1 infection

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Introduction

A new entrant novel H1N1 influenza A virus has already been acquired world wide attention. Globally 15174 deaths have been reported among confirmed H1N1 cases up to February 2010 (1). There were 642 confirmed cases and 48 deaths reported in Sri Lanka due to H1N1 influenza by April 2010 since first reported in June 2009 (2).

Complications expected with this novel infection is similar to seasonal influenza infection viz; exacerbations of underlying chronic infections, respiratory tract infections (otitis media, sinusitis, pneumonia), neurological illnesses (encephalitis, encephalopathy, febrile seizures and status epilepticus), rhabdomyolysis, pericarditis, myocarditis and sepsis (3,4).

Encephalitis as a neurological sequel of H1N1 influenza was first reported in Texas during the last epidemic (5). Main causative agents of encephalitis reported in Sri Lanka are Japanese B encephalitis virus, herpes simplex virus (type 1) and rabies virus whereas seasonal influenza A and B causing fatal encephalitis are not reported.