CASE REPORT

A 57 years old woman presented with pain in the abdomen, of one day's duration. Her past history was not contributory. Her general physical examination was unremarkable. On abdominal examination, a generalized distension with guarding and rigidity and absent bowel sounds was seen. The chest X-ray (PA view) showed air under the diaphragm. The differential count was neutrophils – 68, lymphocytes – 32 and eosinophils – 1. After resuscitation, an exploratory laparotomy was done and it showed copious amounts of bilious fluid with flakes in the peritoneal cavity. An ileal perforation which measured about 5mm was present about 50cm from the ileocaecal junction, with surrounding erythema. Segmental resection of the small intestine and peritoneal lavage was done. The patient made an uneventful recovery. She is on regular follow up and has not been started on steroids. The histopathological examination of the excised specimen revealed an ileal tissue with ulceration, necrosis, granulation tissue and infiltration by inflammatory cells, which was composed predominantly of eosinophils, few lymphocytes and histiocytes, which were suggestive of eosinophilic ileitis [Table/Fig-3].

DISCUSSION

Eosinophilic enteritis is defined as an inflammation with a characteristic eosinophilic infiltration of the bowel wall, in which various layers can be affected, which occurs anywhere along the gastrointestinal tract, from the oesophagus to the rectum [7]. Shaped in large part by case reports and series over the years, there are no strict diagnostic criteria for this disorder. Rather, a combination of the gastrointestinal complaints with supportive histologic findings is sufficient to make the diagnosis. Serum eosinophilia is present in
many cases. It is a relatively rare entity which had been previously described in association with conditions such as collagen vascular disease, malignancy, food allergy, parasitic or viral infections, inflammatory bowel disease, and drug sensitivity [8 – 11]. The proposed pathogenesis is an alteration in the mucosal integrity which results in the localization of various antigens in the gut wall, thereby inducing tissue and blood eosinophilia [3]. Primary eosinophilic enteritis has also been described, where no precipitating factors can be identified, which lead to such an inflammation [7]. It can present with various symptoms such as abdominal pain, protein-losing enteropathy, ulcers, ascites, obstruction, intussusception and perforation and it can mimic inflammatory bowel disease [12 – 14]. A granulomatous formation has also been described along with the eosinophilic infiltration [15]. Typhoid ileitis is generally considered to be the most common cause of the perforations of the terminal ileum. Not all ileal perforations, however, are caused by typhoid. The reports in the foreign literature have documented other possible aetiologies of the ileal perforations. Among them are Campylobacter, Escherichia coli, Streptococcus and Haemophilus and Yersinia [16,17]. The surgical treatment of an eosinophilic ileal perforation consists of a segmental resection of the involved bowel segment.

CONCLUSION
A typhoid ileal perforation is the most common cause of an ileal perforation. Eosinophilic ileitis one of the rare causes of the non-typhoid ileal perforations. A careful intraoperative examination is required. Laparotomy and segmental resection are the recommended treatments for this condition. This case has been presented because of its rarity.

REFERENCES

[Table/Fig-2]: Intraoperative picture showing site of perforation with surrounding erythema

[Table/Fig-3]: Histopathologicalpicture showing ileal tissue with inflammatory cells predominantly eosinophils – eosinophilic ileitis
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