Colitis as a form of presentation of eosinophilic granulomatosis with polyangiitis

Eosinophilic granulomatosis with polyangiitis (EGPA), previously known as Churg-Strauss syndrome (CCS), is a multisystem disease characterised by asthma, eosinophilia in peripheral blood and tissues, formation of extravascular granulomas and vasculitis of small and medium-sized blood vessels. It is a rare disease with a prevalence of 10.7–13 cases per million. The organ most commonly affected is the lung. The gastrointestinal (GI) tract may be involved in 20–50% of patients, but clinical presentation with GI symptoms is uncommon.

We present the case of a patient with EGPA whose clinical signs were suggestive of colitis.

A 74-year-old woman was admitted to our department with a two-month history of six to seven episodes of diarrhoea per day with blood and mucus and abdominal pain. She reported that in the previous two weeks she had also had a cough with greenish expectoration but no fever. Her personal history included a history of late-onset asthma, bronchiectasis, rhinitis and maxillary sinusitis. On physical examination, the patient was afebrile and the only finding of note was the crackles heard in both lung bases. Blood analysis showed leucocytosis, with eosinophils 47%, C-reactive protein 13.4 mg/l (0.03–5) and total IgE 271 kU/l (1.3–165). The peripheral blood smear only showed eosinophils. The other investigations, including kidney and liver function tests, urinalysis and vitamin B₁₂ levels, showed normal values. Antinuclear antibodies were positive at the 1:320 titre (speckled pattern) and myeloperoxidase anti-neutrophil cytoplasmic antibodies (MPO-ANCA) were negative. Faeces were tested for parasites and a Mantoux test was performed, with both being negative. The chest x-ray showed the presence of interstitial infiltrates in both lung bases. Investigations were completed with an echocardiogram, which showed minimal pericardial effusion; a chest computed tomography scan, which showed bilateral lung involvement, with areas of subpleural consolidations and predominantly peripheral ground-glass opacities; and a colonoscopy, which showed patchy erythematos areas in the left colon.

Figure 1 Colonoscopy: patchy distribution of erythematous areas in the left colon.

EGPA is a systemic vasculitis that belongs to the ANCA-associated vasculitis group of diseases. Despite its classification, ANCA are only detected in 30–40% of patients with EGPA. The clinical manifestations develop in several phases: a prodromal phase with symptoms of atopy; an eosinophilic phase characterised by peripheral and tissue eosinophilia; and a vasculitis phase, involving signs of vasculitis affecting multiple organs such as the skin, the nervous system, the heart, the kidney and the GI tract. The American College of Rheumatology propose six criteria for defining EGPA: asthma; peripheral eosinophilia...
More eosinophilic infiltration of the tract may be affected. The most common symptoms are abdominal pain (59%), diarrhea (33%) and bleeding (18%). The large intestine is more commonly affected than the small intestine. In the past, small intestine involvement was often detected during emergency surgery to treat a perforated bowel. Now, however, the use of techniques such as capsule endoscopy or double-balloon enteroscopy enables early diagnosis of some cases of EGPA, which present as ulcerations in the small intestine. More severe forms of presentation with ischaemia, perforation or intestinal obstruction are associated with poor prognosis. The mortality rate associated with GI involvement in EGPA lies in fourth place behind cardiac, neurological and renal involvement. Treatment is based on corticosteroids (prednisone at doses of 0.5–1.5 mg/kg/day) for 6–12 weeks with subsequent gradual reduction. In the most severe forms, cyclophosphamide may be required initially. Once remission is induced, as with our patient, maintenance treatment is based on less toxic immunosuppressants, such as azathioprine or methotrexate, combined with subsequent doses of corticosteroids for 12–18 months.

In conclusion, EGPA is a rare vasculitis that can affect the GI tract. Presentation with GI symptoms is uncommon and the clinical signs can range from mild symptoms to severe manifestations. The diagnosis of EGPA in the GI tract requires a high degree of clinical suspicion, as a documented histological finding of vasculitis may be lacking and the only indicative finding may be the presence of extravascular eosinophilia.

References

Gastric metastatic extension of invasive ductal carcinoma of the breast with atypical endoscopic presentation

Extensión metastásica gástrica de carcinoma ductal infiltrante de mama con presentación endoscópica atípica

We present the case of a 37-year-old woman with a history of T2N1M0 invasive ductal carcinoma of the left breast diagnosed 18 months earlier. After diagnosis, surgical resection was performed, but turned out to be incomplete, and the patient was started on chemoradiotherapy. She had no other relevant medical or surgical history. A repeat breast ultrasound was performed after she found a lump in her right breast (contralateral to that of the initial tumour) on self-examination. The test ruled out involvement of the right breast but incidentally detected left axillary lymphadenopathy, for which an ultrasound-guided fine-needle aspiration biopsy was performed. Cytology was positive for malignancy and compatible with ductal carcinoma. In view of the recurrence of the patient’s disease, we performed a positron emission tomography (PET) scan, which showed uptake in the stomach, meaning a gastroscopy was required.

Endoscopically, several superficially ulcerated lesions measuring 3–5 mm in diameter, with the appearance of being submucosal, were seen in the fundus and gastric bodies (Fig. 1). Biopsies were taken from the lesions and sent to the pathology department for histological study. After haematoxylin–eosin staining, neoplastic invasion was observed with loss of normal glandular architecture. Immunohistochemistry (GATA-3) confirmed the breast origin of the metastases (Fig. 2).

The patient died four months after having the gastroscopy, despite the chemoradiotherapy, from cancer-related complications.

Although relatively rare, metastatic spread of breast cancer to the gastrointestinal tract does happen.1–4 Ductal breast cancer is normally associated with liver, lung and brain metastases.1,5,6 Gynaecological, retroperitoneal

and, less frequently, gastrointestinal metastases are more typical of lobular breast cancer1,4,7 and very uncommon in ductal cancer.1 Even in cases of mixed histology, it is the lobular component that tends to metastasise to the gastrointestinal tract,1 and the stomach is the region most commonly affected.1,4,6,7 Published series report an incidence of gastric metastasis from 4% to 18% after performing post-mortem