Mediterranean spotted fever with involvement of the gastrointestinal tract

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DESCRIPTION
A previously healthy 62-year-old man, resident in a rural environment, was admitted to the intensive care unit of gastroenterology with a 5-day history of fever (39°C), upper abdominal pain, nausea, emesis and cutaneous rash, complicated in the preceding day by haematemesis. Physical examination revealed a maculopapular rash in the trunk and palmar/plantar regions. Laboratory data demonstrated ferropenic anaemia (haemoglobin 8 g/dL), thrombocytopenia (34 000/μL), leucocytosis (12.8×10³/μL), elevated C reactive protein (21 mg/dL) and acute renal failure. The upper endoscopy showed fresh blood in the gastric lumen, multiple serpiginous erosions and several small shallow ulcers covered with haematin in the antrum and duodenum, one of them with active bleeding. Endoscopic haemostasis was made with epinephrine and the placement of four haemoclips. The duodenal biopsies revealed erosive duodenitis. The serology was positive for Rickettsia conorii. Therapy was performed with intravenous doxycycline and pantoprazole. The upper endoscopy, 7 days after, showed improved endoscopic lesions and no signs of recent haemorrhage (figures 1–3).

Mediterranean spotted fever (MSF) is a tick-borne rickettsial disease caused by the infection with one of the two strains of R conorii complex—Malish and ‘Israeli tick typhus’, whose main vector and reservoir is the tick Rhipicephalus sanguineus. Clinically it is characterised by a generalised vasculitis process with the classic clinical triad of fever, rash and lesion at the site of tick bite (tache noire). Although the majority of cases are considered benign, in the past years severe forms of MSF have emerged, requiring intensive care facilities. The upper gastrointestinal haemorrhage is a rare complication of the disease and an atypical presentation. It has been previously described as MSF Olmer’s haemorrhagic form.

Rickettsial vasculitic process of injury in the upper gastrointestinal tract is histologically similar to that observed in other organs in patients with MSF and may manifest clinically as digestive tract bleeding.

Learning points
▸ Mediterranean spotted fever is characterised by a generalised vasculitis process (classic clinical triad: fever, rash and lesion at the site of tick bite).
▸ The diagnosis is based on positive serological test for Rickettsia conorii complex.
▸ The rickettsial vasculitic process of injury in the upper gastrointestinal tract is histologically similar to that observed in other organs and may manifest as digestive tract bleeding.
▸ The gastrointestinal haemorrhage is a rare complication and an atypical presentation.

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Figure 1 Upper endoscopy image: gastric antrum with multiple serpiginous erosions and several small shallow ulcers covered with haematin.

Figure 2 Upper endoscopy image: gastric antrum with multiple serpiginous erosions and several small shallow ulcers covered with haematin.

Figure 3 Upper endoscopy image: duodenum with serpiginous and diffuse erosions.
REFERENCES

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