Endoscopic lesions of Henoch-Schönlein purpura in adults: about an unusual presentation

Abstract
Henoch-Schönlein purpura (HSP) is a systemic vasculitis of the small vessels of the skin, joints, gastrointestinal tract and kidneys. It preferentially affects children but can also occur in adults. We report the case of a 28-year-old man who had had a digestive hemorrhage with renal failure. We found characteristic endoscopic signs in the stomach and duodenum at EGD/upper endoscopy. Histological examination of the renal biopsy samples made it possible to retain the diagnosis of HSP. Our case shows that gastrointestinal endoscopy and renal biopsy may be helpful for diagnosis in patients suspected of having HSP, especially in the absence of skin involvement.

Keywords: henoch-schönlein purpura, IgA vasculitis, endoscopy, gastrointestinal involvement

Introduction
Henoch-Schönlein purpura (HSP) is an IgA vasculitis, much more common in children than in adults. It combines a cutaneous vascular purpura, joint, gastrointestinal damage and sometimes kidney damage. Digestive damage usually affects the colon and the small intestine. We report the case of a HSP responsible for an original attack because mainly digestive and renal in a patient of 28 years admitted for digestive hemorrhage and we discuss the clinical, paraclinical, therapeutic and progressive characteristics of the digestive attack of the HSP in adult.

Case report
A 28-year-old man was admitted for hematemesis and melena associated with abdominal pain in the epigastrium of moderate intensity. These symptoms appeared forty-eight hours before admission. He had no history and was not taking any treatment. On admission, he was asthenic, very pale and oliguric (less than 300ml/24). His temperature was 37.5°C and his blood pressure was 100/50mmHg. The abdomen was tenderness at the level of the epigastrium without defense or contracture. He had no joint or skin signs. The rest of the exam was normal.

The blood count had shown a white blood cell count of 23640/mm³ (neutrophils: 19180/mm³), hypochromic microcytic anemia at 4.6g/ (MCHC: 25pg) dl and a platelet count at 175000/mm³. Coagulation panel was normal. The creatinine was at 0.7g/L and the ferritin level was 267µg/L. The urine strip showed two blood crosses and two protein crosses. The proteinuria was inflammatory composed of lymphocytes from plasma cells and neutrophils. The glands were well differentiated. Helicobacter pylori were not observed. Duodenal biopsies showed retained villi of height. The epithium was cylindrical exulcated. The edematous and inflammatory composed of lymphocytes from plasma cells and neutrophils. The glands were well differentiated. Helicobacter pylori were not observed. Duodenal biopsies showed retained villi of height. The epithium was cylindrical exulcated. The edematous and congestive chorion was the seat of an inflammatory infiltrate made of lymphocytes, plasma cells and neutrophils.

Figure 1 EGD/upper endoscopy showing gastric ulcers with wall hematomas.

The digestive symptomatology associated with a nephrotic syndrome made suspect in the first place a vasculitis of the small vessels in particular a HSP. Anti-nuclear antibodies were negative. The serum IgA level was normal at 1.3g/L. The renal biopsy was performed showing a proliferation of mesangial cells and the presence in immunofluorescence of mesangial and pericapillary deposits of immunoglobulins. Given the severity of renal and digestive insufficiency, corticosteroid therapy at a dose of 1mg/kg/day by intravenous route was started with an oral relay on the seventh day. The patient had benefited during the first 4 days from a total parenteral nutrition. He also received a blood transfusion and proton pump inhibitors. The evolution of the digestive damage was favorable. However, kidney damage was not recoverable with the need for periodic hemodialysis (Figure 2).
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Discussion

Henoch-Schönlein purpura (HSP) is a leukocytoclastic vasculitis of small vessels (capillaries, arterioles, venules) with the formation of immune complexes and deposits of IgA and the fraction C3 of the complement. HSP mainly affects children between the ages of 5 and 15, with a predominance of men, but can also occur in adults. It is characterized by the association of a skin purpura predominant in the lower limbs, of symmetrical arthralgia affecting large joints and abdominal signs such as abdominal pain or digestive bleeding. Renal damage conditions the prognosis of the disease. Cutaneous purpura is an almost constant sign in HSP. It is a vascular, petechial and ecchymotic, bilateral, symmetrical purpura, predominant in the lower limbs. The absence of purpura, as in our case, is exceptional, but should not rule out the diagnosis.

The digestive manifestations are frequent but exceptionally inaugural of the disease as in our observation. The most frequently reported are abdominal pain, vomiting, diarrhea, digestive hemorrhages. Peritoneal or occlusive syndrome, perforation of the small intestine, exudative enteropathy are rarely reported. The digestive endoscopy can direct the diagnosis in certain atypical situations especially if the digestive attack is inaugural of the disease. The lesions are segmental and vary in association with purpura, edema, ulcerations, hemorrhagic areas, hematomas or transpaperial necrosis. Lesions predominate over the small intestine, but esophageal, gastric and colic localizations have been described.

Most histological studies of gastrointestinal lesions have shown nonspecific inflammation. Indeed the deposit of IgA is weak in digestive mucosa, even with macroscopic anomaly. However, markers of vasculitis in intestinal samples can be found in patients who have multiple ulcers and hematoma-like protrusions. Immunohistochemistry can distinguish HSP from other causes of gastrointestinal inflammation. Endoscopic findings in our patient and histological inflammation not compatible with others causes and especially the presence of kidney failure, made HSP more likely.

Conclusion

Digestive manifestations are frequent in Henoch-Schönlein purpura in adults and may be initial. Faced with digestive ulcers, one must think of vasculitis in the same way as inflammatory or infectious disorders.

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Conflicts of interest

None.

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