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ACUTE SCROTAL SWELLING IN HENOCH-SCHÖNLEIN PURPURA: A CASE REPORT

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Henoch-Schönlein purpura is a systemic vasculitis and sometimes presents as acute scrotal swelling in children. We report a case of Henoch-Schönlein purpura with acute scrotal swelling, which was correctly diagnosed based upon local physical findings. Scrotal ultrasonography showed normal testes and hydrocele testis around the affected testis 3 hours after the sudden onset of the pain. The scrotal symptoms improved in 2 days with steroid therapy. Scrotal ultrasonography was useful to diagnose Henoch-Schönlein purpura with scrotal involvement. Steroid treatment appeared to be effective for this condition.

Key words: Henoch-Schönlein purpura, Acute scrotal swelling

INTRODUCTION

Henoch-Schönlein purpura (HSP) is a systemic vasculitis in children that usually involves the skin, joints, intestinal tract, and kidneys. HSP has been recognized as an unusual cause of acute scrotal swelling. The sudden onset of acute scrotal pain may be the initial presentation. Color Doppler ultrasonography (US) and radionuclide scanning are useful in the diagnosis of acute scrotal swelling. Scrotal US is also useful in evaluating this condition. We describe a case of HSP with acute scrotal pain, which was correctly diagnosed using scrotal US and successfully treated with steroid therapy.

CASE REPORT

An 8-year-old boy presented to the emergency room 3 hours after the sudden onset of a right scrotal pain. Two days before the onset, the boy had noted some purpuras on the lower extremities. During the two days, the purpura had gradually extended to the entire lower extremities and also the lower abdomen. He had a past medical history of bronchial asthma. Physical examination revealed that the right scrotum was edematous and slightly erythematous, while the left was normal. The scrotal contents were only slightly tender. The affected testis was normal in axis, position, size, and consistency. Scrotal US confirmed the physical findings and also revealed that there was a hydrocele testis around the affected testis (Fig. 1). Laboratory examinations including platelet, serum chemistry, and urine analysis were unremarkable. Urinalysis was negative for blood or protein. The patient was diagnosed with Henoch-Schönlein purpura with scrotal involvement, and was treated with hydrocortisone sodium succinate (100 mg, once, only the day of the attack). The scrotal swelling and pain as well as purpura was significantly improved the next day. The scrotal symptoms disappeared 2 days after the treatment.

DISCUSSION

Acute scrotal swelling is an emergent condition. The differential diagnosis in this condition includes diseases requiring immediate surgical treatment, such as testicular torsion. HSP is a systemic vasculitis affecting primarily children and usually involves the skin, intestinal tract, joint, and kidney. The scrotum is sometimes involved as a part of systemic vasculitis. HSP is recognized as an unusual cause of acute scrotal swelling in children. Scrotal involvement in HSP should be managed conservatively, not surgically. In the diagnosis of acute scrotal swelling radiological examinations evaluating testicular blood flow, such as color Doppler US and radionuclide
scrotal involvement usually improved in a week with conservative therapy, such as rest and ice2,3,5) (Table 1). In contrast, Ben-Chaim reported a rapid response to systemic steroid therapy7). Therefore, our patient received the steroid treatment and the symptoms improved within 2 days. Our case supports the previous report concerning the usefulness of the steroid treatment7). The prompt response might be related to early diagnosis before secondary changes such as hematoma had appeared7).

In conclusion, we could make a correct diagnosis of HSP with scrotal involvement based upon clinical evidence obtained from careful physical examination and scrotal US. Scrotal US was useful in the diagnosis of acute scrotal swelling. Steroid treatment appeared to be effective in HSP with scrotal involvement.

REFERENCES

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急性陰嚢症を呈した Henoch-Schönlein 紫斑病の 1 例

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Henoch-Schönlein 紫斑病は小児にみられる血管炎を伴う腎炎病である。病変が陰嚢に及び小児急性陰嚢症を呈する。臨床所見より急性陰嚢症を伴った Henoch-Schönlein 紫斑病と診断した 1 例を経験したので報告する。発症から 3 時間後に施行した陰囊超音波検査では正常な精巣および精巣周囲の所見が得られた。ステロイド投与により速やかに病状は軽快した。陰囊超音波検査は本疾患の診断に有用であり、ステロイドは治療に有効であると考えられた。

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