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

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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 erythematosus, 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 in HSP

| Reference | Age (year) | Scrotal involvement | Date of onset (day) | Date of resolution (day) | Treatment | Associated symptoms
|-----------|------------|---------------------|---------------------|--------------------------|-----------|----------------------
| 2         | 4          | B (R→L)             | 1                   | 2                        | Surgical exploration | S (R→L)→P+J |
| 3         | 6          | B                   | 6                   | 5                        | Conservative        | P+J→G→S      |
| 5         | 7          | B                   | 7                   | 4                        | Conservative        | G→P+S→J      |
| 5         | 7          | B                   | 1                   | 7                        | Conservative        | P+S          |
| 7         | 3.5        | B                   | 4                   | 1                        | Steroid             | P→S          |

* B: bilateral, R: right, L: left.  
 First, the right scrotum was involved. One hour later, the right was improved but the left was affected.

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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和文抄録

急性陰囊症を呈した 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紫斑病である。病変が陰囊に及ぶと小児急性陰囊症を呈する。臨床所見より急性陰囊症を伴った 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水腫の所見が得られた。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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