A Rare Case of *Schistosoma mansoni* Ova Found in the Urine of a Sudanese

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**Key Words:** *Schistosoma mansoni, S. haematobium, schistosomiasis, Sudan*

Patient is a young boy, 18 years old, who lives in Khartoum City with his parents and 3 brothers. Three years ago, he traveled to his bone place, Al Ginena in Western part of Sudan, for several days through the endemic area of shistosomiasis in Gezira, and had an access to the water of a minor irrigation canal.

Recently, haematuria was seen at the end of urination in the morning. After 3 months duration of the haematuria, the pain on the back waist and vomiting were often felt. However, feces was still normal. On 26th in July 1990, both *Schistosoma mansoni* and *S. haematobium* ova were detected in the same urine of the patient at a private laboratory in Khartoum (Fig. 1,2,3). Single dose of praziquantel 4 tablets (600mg) was administered immediately.

In general, the ova of *S. mansoni* may be found in the bladder in 7% of the patients when they are found in the rectum\(^1\). In Sudan 3 to 5% of the patients of mixed infection schistosomiasis discharge both eggs in the urine (private conversation with Mr. Mohamed in Parasitology Department, University Laboratory in Khartoum). However, the case found with both *S. haematobium* and *S. mansoni* ova in the same urine have not been published in Sudan.

In the textbook of parasites, a few books describe that the ova of *S. mansoni* are found in the urine\(^2\)-\(^6\). In the present case, the patient must have infected with both kind of Schistosoma cercariae while playing in contaminated water of the irrigation canal. Because he was an only patient in his family. As shistosomiasis haematobia patient usually complains of haematuria and pain on the waist, his symptoms were typical case of urinaly schistosomiasis in Sudan. In the treatment, one dose of praziquantel is expected in sufficient prescription. However, we can not follow up him, because of his escape after treatment of praziquantel.

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Fig. 1. Formalin fixed ova of *Schistosoma haematobium* (top) and *S. mansoni* (bottom) are seen in the sediment of the urine.

Fig. 2. *Schistosoma haematobium* ovum with a terminal spine (arrow) in the urine.

Fig. 3. *Schistosoma mansoni* ovum with a conspicuous lateral spine (arrow) in the urine.

**RETERATURE CITED**


4) Miyazaki, I. and Toh,Y. : Parasitic Zoonosis, Kyushu University Press, Fukuoka, Japan, p397, 1988


要約
マンソン住血吸虫とビルハルツ住血吸虫に混合感染し、しかも尿からマンソン住血吸虫の虫卵を検出した珍しい症例。患者は18才の男子でスーザンのハルツーム市在住。3年前に流行地で水に接する機会があった。最近、朝の最初の尿で血尿が出るようになった。また腹痛および嘔気も自覚するようになった。1990年7月26日個人のクリニックで検査したところ尿の沈渣中より2種類の住血吸虫卵を検出した。スーザンでは混合感染者の3～5％に尿からマンソン住血吸虫卵が検出されるといわれているが確実な報告例はない。

(1990年10月29日受理)