to parasite antigens. American Journal of Tropical Medi-cine and Hygiene, 29, 592-597. Santoro, F., Prata, A., Catro, C. N. & Capron, A. (1980).

- Circulating antigens, immune complexes and C3_c levels in human schistosomiasis. Relationship with Schistosoma mansoni egg output. Clinical and Experimental Immunolo-gy, 42, 219-225. Santoro, F., Prata, A., Silba, A. E. & Capron, A. (1981).
- Correlation between circulating antigens detected by the radio-immunoprecipitation polyethylene glycol assay (RIPEGA) and Clq binding immune complexes in human schistosomiasis mansoni. American Journal of Tropical Medicine and Hygiene, 30, 1020-1025. Smith, M. D., Verroust, P. J., Morel-Maroger, L. M., Genitau, M. & Couland, J. P. (1977). A study of the

presence of circulating immune complexes in schistoso-miasis. Transactions of the Royal Society of Tropical Medicine and Hygiene, 71, 343-348. Stevens, W. J., Feldmeir, H., Bridts, C. H. & Daffalla, A. A. (1983). IgG and IgE circulating immune complexes, state complexes, and IgE complexes in provide the in provide

- total serum IgE and parasite related IgE in patients with mono- or mixed infection with Schistosoma mansoni and/or S. haematobium. Influence of therapy. Clinical and
- Experimental Immunology, 52, 144-152.
 Voller, A., Bidwell, D. E. & Bartlett, A. (1976). Enzyme immunoassays in diagnostic medicine. Theory and prac-tice. Bulletin of the World Health Organization, 53, 55-65.

Received 27 August 1986; accepted for publication 17 December 1986

1:

Nº2 TRANSACTIONS OF THE ROYAL SOCIETY OF TROPICAL MEDICINE AND HYGIENE (1988) 82, 257

Short Report

Schistosoma bovis in human stools in Republic of Niger

François Mouchet¹, Michel Develoux² and Mama-dou Balla Magasa¹ ¹Laboratoire des Schistosomes, CERMES, B.P. 10887, Niamey, Niger; ²Laboratoire de Parasitologie, Faculté des Sciences de la Santé, Niamey, Niger

We wish to report the presence of eggs of Schistosoma bovis in Republic of Niger. This discovery was made during a survey of an S. mansoni focus in Gaya area, in the south of the country. The survey involved 4 villages; 1900 people were examined by the MIF stool concentration method. S. bovis eggs were found in stools of 17 individuals, all living in Niakoye-Tounga village, which represents a 3.7% prevalence rate in this village. Measurements were made on 47 eggs: the mean length was $222 \cdot 2 \pm 6 \mu m$, mean width $53.1 \pm 2.2 \ \mu m$ and the mean width 40 μm from the end bearing the spine was $17.1 \pm 0.7 \,\mu\text{m}$. These dimensions, and the general morphology of the eggs, tally with the criteria given for S. bovis by PITCHFORD

(1965). Six persons were also infected with S. mansoni, 2 with S. haematobium and 2 with all 3 species. Six months later, 13 of the 17 infected people, all untreated, were re-examined; 4 were still excreting S. bovis eggs and questioning revealed that they had not eaten any food likely to be contaminated by S. bovis during the days preceding their examination. Five eggs were isolated and examined; flame cell movements were seen in 3, but hatching could not be obtained. The presence of S. bovis in human stools has already been reported in Uganda, Kenya, Zimbabwe, and South Africa (CHUNGE et al., 1986), but not, to our knowledge, in West Africa. Our observations, and those of RAPER (1951), suggest that human infection with S. bovis is only slight and transient. References

- Chunge, R., Katsivo, M., Kok, P., Wamivea, M. & Kinoti, S. (1986). Schistosoma bovis in human stools in Kenya. Transactions of the Royal Society of Tropical Medicine and Hygiene, 80, 849.
- Pitchford, R. J. (1965). Differences in the egg morphology and certain biological characteristics of some African and Middle Eastern schistosomes, genus Schistosoma, with terminal-spined eggs. Bulletin of the World Health Orga-
- nization, 32, 105-120. Raper, A. B. (1951). Schistosoma bovis infection in man. East African Medical Journal, 28, 50-54.

Received 9 November 1987; accepted for publication 17 November 1987

ORSTOM Fonds Documentaire

Nº: 25077 ex1 Cote: B Date · 880704