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ar.o. 50,000 primary groin hernias were reed during a 22-year period and only 975 cases per cent.) were femoral hernias (Glassow,

the principles of management of groin hernia virica are the same as elsewhere. The Bassiniof herniorrhaphy is eminently suitable for a cases of direct or indirect inguinal hernias.

SUMMARY

a review of 494 cases of groin hernia, ininguinal hernias constituted the largest
chernia type. Femoral hernias and direct
nal hernias were less frequent than that recd in most studies elsewhere. Amongst
desian Africans inguinal hernia would appear
temore prevalent in Mtoko and Mount Darareas. Inguinal hernias occurred more fretly on the right side. There was an unusually
incidence of associated hydrocoele in adult
ents with an indirect hernia.

lilariasis in Rhodesian Wild Life

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cial infections in both man and animals are considerable importance in the Far East and, critain parts of Africa, are important infections man.

Esouthern Africa there has not been any litton of economic importance described in iestic animals caused by a filarial worm. Two is of meningeal setariasis have been reported intelope (Basson et al., 1966) and cutaneous insoccur in black rhinoceros (Schultz and ge. 1960). In view of the current interest in lasis in humans in Rhodesia, and the fact this condition is now accepted to be a most in other countries, some results of obstitions on filarial infestation in Rhodesian wild are reported below.

MATERIALS AND METHODS

During the last three years collections of heliths, formolised blood and blood smears have an made from wild animals shot during game poing operations in Rhodesia. Formolised

blood samples were centrifuged to concentrate microfilariae, and smears were examined after staining with Giemsa.

Results

A wide variety of animals were found to be infected with adult filarial worms and or microfilariae (Table 1).

Discussion

Members of the genus Sciaria are easily found in the peritoneal cavity of their hosts. Other genera, living in the skin or lymphatic system, are less well known. In human filariasis the microfilariae are better known than the adults and the worms are usually classified according to the characteristics of their microfilariae.

Amongst our records are some observations on microfilariae exuded by gravid female worms. In one case adult Sciaria scalprum, from both duiker and steenbok, were seen to liberate unsheathed microfilariae 150 long. This example appears to be an exception in the genus Sciaria, whose other members all produce sheathed microfilariae. Sciaria scalprum from the duiker would appear to be a heretofore unrecorded host parasite relationship (Yeh. 1959; Basson, 1966).

Sctaria hornbyi with 270 p long, sheathed microfilariae, was confined to members of the sub-family Oryginae, S. hicornata with 200 p long sheathed microfilariae was found in Reduncinae and Tragelaphinae; S. africana in Bovinae, Tragelaphinae and Rhinocerotidae. The

Table 1

HOST PARASITE LIST OF FILARIDS FOUND IN RHODESIAN WILD LIFE

Host	Adult	Microfilariae from Blood Concentration	Numbers Position
Buffalo	Artionema atricana 4. labiato papillosa (F. liberating sh. micro- nt. 240 p.)	24 samples negative	
Bush buck	S. atricana (with F. liberating sh. microfil 330 p. long). Cordophilis sagitta	Tionly sheathed 225 g	1
Duiker	A Scalprum (F. liberating unsh microfil. 150 .)	Microfil. 160_{-p} unsh	13
Fland	4. normbyr 1. streana	No samples	
Elephant	Diperalenema lexisdentis	Microfil 290 $_{P}$ sh.	/ z
Grysbok	No samples	Microfil 164 _{ji} unsh	,
Impala	1 scalpron	Unsh microfil 160 (Max No = 5,000 ml blood	:/136
Kudu	4. africana (with F liberating sh. microfil. $330_{(p)}$) Cordophilus sagitta	Microfil sh. 230 ; Microfil unsh. 260 p	/ 5 /25
Reedbuck	.4. bicoronata (F. liberating 220 p. microfil.)	Microfil. 220 p	1/9
Rhinoceros	4 atricana	6 samples negative	16
Roan	4. hornbyi	No samples	
Sable	A. hornbyi (1), liberating 270 $_{20}$ microfil (sh.)	2 samples negative	1
Steenbok	A. scalprum (F. liberating 160 a microfil. unsh.)	No samples	,
Water buck	A. bicoronata (F. liberating 200 5 microfil)	No samples	
Zebra	Setoria equina (F. liberating sh. microfil. 220 μ)	No samples	

microfilariae associated with S, africana were 330 n long, with sheath.

Cordophilus vagitta was found in bushbuck and to be very common in kudu, appearing in 55 per cent, of 64 animals sampled from all major game concentrations; the microfilariae would appear to be sheathed and 230 n in length.

The finding of $2 \times 260 n$ microfilaria in the kudu could not be associated with an adult of the genus *Sctaria*.

Buckley (1958) described experiments which clearly supported the theory that pulmonary tropical eosinophilia in humans was caused by filarial parasites of animals. In America, Beaver and Orihel (1965) reported 21 cases of zoonotic

filariasis. These include infestations in a of *Dirotilaria immitts*, the common hearts dogs.

Nelson (1965), in review, suggests that Pipelson lonema perstans might be a complex of several species. The wide range of sizes of 4 perstans type microfilariae found in humans in R1 by Holmes et al. (1969) lends support to N. (1969) suggestion.

A description of cerebral filariasis possible to A. perstans (Dukes et al., 1968) has a doubts that this parasite is harmless

The subject of human filariasis and filariasis a zoonosis is therefore not at all clear. Mifilariae of animal origin could well play a significant origin.

icant part in filarial infestations of humans in thodesia

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Unusual Manifestations occurring in the Early Stages of Bilharziasis in Children'

THE EXPANDED KATAYAMA SYNDROME

RY

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the early systemic or invasive stage of bilharziasis has usually been described as Katavama fever. tharacterised by a constitutional illness with fever. articaria, splenomegaly, cough and eosinophilia ocurring between the fourth and tenth week of bilharzial infestation. It has usually been reprded as a minor illness.1 2 but recent experience ndicates that potential serious lesions occur at this stage of the disease with neurological and ardiac manifestations differing from those recognised in the later stage of the disease.3

Recent experience also suggests that symptoms nore varied than the more commonly described ones may occur, including features of the Henoch-Schonlein's syndrome. It is also possible hat the manifestations of allergy or hypersensi wity continue for a considerable length of time. These perhaps also occur later after the initial nfection.

This paper is based on nine cases illustrating these features, and these patients fall into two groups, the first group comprising cases showing cardiac and or cerebral complications and the second group showing teatures of the Henoch-Schonlein's syndrome. All these patients were white children

GROUP 1: CASES WITH CEREBRAL AND OR CARDIAC ABNORMALITHS: RECOGNISED CLINIC ALLY OR ON SPECIAL INVESTIGATIONS

Case 1. An H-year-old boy presented with a week's story of fever, headache, malaise and rigors. Other features were: temperature 103 F., 3 cm. splenomegaly and eosinophilia of 14 per cent., E.S.R. 37 mm. hour and a positive schistosoma-plasma-cercaria antigen (S.P.C.) screening test. An E.C.O. showed T wave inversion from V1 V6. The eosinophil count subsequently rose to 54 per cent, and persisted for two months. Bilharzial tubercles were shown on cystoscopy. The E.C.G. abnormalities persisted for two months. Subsequent progress after anti-bilharzial treatment (sodium antimony tartrate) was good.

boy developed Case 2. -A seven-year-old oedema of the scrotum and penis one month after known exposure to bilharziasis. He subsequently developed generalised urticaria lasting for one month followed by a fever, vomiting and diarrhoea with blood in the stools. Three weeks after the initial symptoms, features of an acute encephalopathy appeared. Other findings were an eosinophilia of 32 per cent., a high-pitched systolic murmur, E.C.G. changes consisting of T wave inversion from VI V7 with depression of the ST segments in V1 V6. An E.E.G. showed abnormal slowing over both occipital areas, with changes more marked over the right side. Splenomegaly developed during the course of the illness. Ova of S. mansoni were found in the stools one month after the initial symptoms. The murmur and E.C.G. changes lasted for 24 days. E.E.G. abnormalities persisted for five months. Subsequently, on treatment with sodium antimony tartrate, there were no E.C.G. abnormalities

Case 3. -A nine-year-old girl presented with a three weeks' fever and one week's coughing. Relevant findings were an eosinophilia of 30 per cent., E.S.R. 83 mm. hour, E.C.C. showing inversion of T waves from V1-V6, with prolongation of the corrected Q.T. interval and right axis deviation. An E.E.G. showed an abnormal low voltage record with slow activity over both parietal areas. Ova of S. hacmatohum were found in the urine 33 days after the commencement of the illness. The E.E.G. abnormalities lasted for 10 weeks. Though the E.C.G. improved, it was

Based on a paper presented at the Rhodesia Medical Congress, Bulawayo, 22nd August, 1968