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Balantidiosis in White Rhinos

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The incidence of *Balantidium coli* in India among cattle and buffaloes has been reported from Assam, Orissa Madras and Punjab (Biswas and Kanng, 1959; Patnaik, 1960) David, 1965, Gill and Kwatra, 1972) causing Balantidiosis with clinical symptoms of diarrhoea and dysentery (Patnaik, 1965 and David, 1967) It is also reported in monkeys (Kuowles, 1928, Ali Khan, M.G. et al 1981).

In the past various compounds like carborsona, Lucarsona, Deouinol, Flagyl, Entero Vioform, copper sulphate, stoversal, Neoviospt and hexachlorethane were used by various workers (Patnaik, 1960, David et al, 1966) with varied results.

The present investigation relates to the Occurrence of Balantidiosis among white Rhinos at Nehru Zoological park, Hyderabad, A.P. with some observations on the efficiency of certain drugs on the control of Balantidiosis.

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CASE REPORT

A pair of white Rhinos native of Africa were brought to Nehru Zoological Park, Hyderabad. A ♂ in the month of May, 1975. Both male and female Rhinos developed symptoms of diarrhoea and the faeces on examination was found to be positive for cysts as well as trophozotes of *Balantidium coli*. Clinically they showed the symptoms of foetid diarrhoea with mucus, loss of appetite, weakness and emaciation.

The following drugs were tried

1. Neftin 200 mg. tab. 30 tab. B.D. for 2 days (without any improvement).
2. Steclin boluses 8 B.D. along with guaxaline, 10 tab. B.D. for 10 days with no improvement.
3. Erythrocin 10 capsules plus sulphamezathene 5 g. tables, 3 tabs. B.D. for 3 days gave some improvement in the condition but the faeces did show the presence of B. Coll cysts.

TABLE-1 Showing the details of the stool tested microscopically antibiotics administered and details of Male White Rhinoceros

Sl. No.	Antibiotics administered in Feed/Jaggery balls.	Date of Administration	Date of Examining the stools M/C	Results of the stools tested	Consistency of the stool	Appetite of the Animal	
I.	NEFTIN TABLETS 200 Mgs 30 Tabs. B.d.	27.8.75 to 28.7.75.	27.75	-Ve for any helmi- thic ova	Loose watery	Poor.	
II.	STECLIN BOLUS 8 B.D. QUZXALINE BOLUS. 10 B.D.	1.9.75 to 11.9.75	28.7.75	+ve for strongle +ve for B. Coli Cysts and Tropho- zoitas	-do- Loose and watery	Poor. Poor.	
			8.9.75. 9-9-75	-ve. +++ for B' Coli Cysts	Loose and watery -do-	Poor. Poor.	
III.	ERYTHROMYGINE TABLETS 10 B.D. Sulphamezathine 5 gm. tab. 3 B,D.	12-9.75 to 14.9.75	15.9.75	+ve for B Coli Cysts.	Slightly better	Appetite improving	
			14-9-75 to 16-9-75	17-9-75	-ve -ve for B. Coli Cyst.	Stool-loose again -do-	-do- -do-
			24.10.75 to 27.10.75	23.10.75	++ for B. Coli Cyst and Trophozpites	Loose	Better
IV.	DEQUINOL TAB 10 Tab dairy	24.10.75 to 27.10.75	30.10.75	-ve -do-	consistency of the stool is much better	-do-	
			6-11-75	-ve	Consistency of stool returned to normal	Better	

TABLE II Showing the details of stool tested microscopically, antibiotics administered and other details of Female White Rhinoceros

Sl. No.	Antibiotics Administered In Feed/Jaggery/Balls	Date of administration	Date of examining the stool M/S	Results of the stool tested	Consistency of the stool	Appetite of the animal	Remarks
I.	STECLIN BOLUS 8 Bd + Quaxalive Bolus, 10 Bd.	5-9-75 to 9-9-75	4-8-75 8-9-75	+ve for B. Coli Stool Normal -ve for B. Coli Loose		Good Complete off feed from 6/9 to 8/9	
II.	ERYTHROMYCIN TABS 10 Bd Sulphamezathine 5 gms. tab. 3 Bd	10-9-75 to 13-9-75	10-9-75 12-9-75	+++ for B. Coli Loose Cyst., Trophozoits + -do-		Appetite Improving from 10/9 -do-	
III.	DEQUINOL TABS 10 Tabs daily	24-10-75 to 27-10-75	23-10-75 30-10-75 6-11-75.	+++ -do- + B. Coli -ve	Loose watery Consistency normal -do-	Appetite good -do- -do-	

4. Dequinol 10 tablets daily for 4 days. It gave better results when compared to the above mentioned drugs as there was improvement in appetite, consistency of faeces being normal and the faeces was negative for the *Balantidium coli* cysts after one week of the administration of the above drug.

Although Balantidiosis is not so serious condition in animals, under certain conditions it may cause severe diarrhoea and dysentery. The disease may sometime be overshadowed by the usual conventional diseases which cause diarrhoea in animals. However, in the present study the white Rhinos showed symptoms of diarrhoea with clinical manifestation. Out of the several drugs tried, only Dequinol gave promising results. These Observations are in agreement with those of David and Mathew 1966.

SUMMARY

Several usually available drugs either singly or in combination were tried for the control of Balantidiosis in white Rhinos. Dequinol was found to be more efficacious than other drugs.

Tables no. 1 and 2 show the details of the stool of the rhinos (male and female) examined and the antibiotics administered from time to time. The details of the consistency of the stool before and after administration of various drugs are also given.

From the above details, it is clear that the drug found effective was Dequinol only. Of course, Erythromycine + Smz has given satisfactory results but the stool examined on 23.10.75 i.e. after six days of administration of the above drug has again shown very heavy infection i.e. +++ and after use of Dequinol i.e. on 6.11.75 the stool for both the animals was found to be negative and the consistency of the stool remained normal for a long time.

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