



TRYPANOSOMOSIS (SURRIOSIS) IN TIGRESS A CASE REPORT - LUCKNOW ZOO

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On 6 April 1995 two tigers named Merry (female) and Vikram (male) were brought to Lucknow Zoo from Chandigarh in a healthy state. In July they mated and in about three months the tigress gave birth to three healthy cubs and raised them with no complications.

Suddenly on 17 December 1996 the tigress ate only 5-6 kg. of meat out of the 10 kg. given to her. The following day she was given 6 kg. of buffalo meat out of which she ate 5 kg. but appeared to be normal. Similarly, until the 26th, she ate less only occasionally but on 20 December she did not appear normal. On 25th December she ate only 3 kg. of buffalo meat out of the 7 kg. given to her. On 26th December until evening she did not eat anything.

On 28th December she was taken in the squeeze cage and her temperature was noted to be 102°F in the morning. She was given suitable antibiotics, B-complex and liver extracts. In the evening her temperature was noted to be 103°F and the treatment was repeated. On 29th December her temperature rose to 104°F in the evening. On 30th December '96 her temperature was 103°F in the morning and 104°F in the evening. Treatment was repeated until 1 January 1997 when the temperature was approximately 104°F.

During these days, she ate around 2-3 kg. meat everyday. The condition remained the same on 2nd January also. On 3rd January meat was not given because it was Friday. She was hospitalized on the 4th morning. She did not eat anything on 5th and was kept under observation the whole day. On 6th January her blood and stool samples were collected. The result of blood sampling is given in Table 1.

There was no ova and cysts but RBCs were present. On 7th January a blood sample was collected again and tryps were found after staining. (See Treatment Chart.)

On 8th Morning at 10.00 am, the tigress was given Berenil 0.8 g./100 lbs and supportive therapy. No abnormality was found. Temperature was 100°F at 3:00 pm but she was restless. She drank a lot of water and urinated at 4:00 pm. In evening 6:00 pm her temperature was 101.2°F. She consumed two chickens. On the 9th morning she ate 5 kg. buffalo meat; her temperature was 100.4°F. In the evening the temperature was 101.8°F and supportive therapy was continued.

She was given supportive therapy again on 10th. By this time her temperature was normal and she ate 6 kg. buffalo meat. She was returned to her enclosure on 11th and for the next four days she ate 6-7 kg. meat per day and remained normal. On 15th half dose of the treatment was repeated. On 16th January blood sample was collected again and tryps were not found after staining.

Now the tigress again is normal and eating around 8-9 kg. meat per day.

Table 1
Blood Fixture (Before Treatment)

	<u>Merry</u>	<u>Normal</u>
W.B.C.	13000	10000-15000
Polymorph	77%	63%
Lymphocytes	23%	30%
Losinophils	nil	2%
Monocytes	nil	5%
Haemoglobin	8 gram %	0-14 gram %
Blood Protozoan	Trypanosoma	

Table 2
In Stools sample -- Stools examination

Colour	Dark Brown
Peaction (PH)	Acidic
Consistency	Soft
Mucous	Present
Frank Blood	Present
Ova	Absent
Cysts	Absent
Puscells	Absent
Red Blood Cell	Present

Treatment Chart of Tigress Merry

28.12.96	Antibiotic with supportive therapy
29.12.96	Treatment followed
30.12.96	Treatment followed
31.12.96	Treatment followed
01.01.97	Treatment followed
02.01.97	No treatment only liver extract, vitamins
03.01.97	Only liver extract and vitamins
04.01.97	No treatment
05.01.97	No treatment
06.01.97	No treatment
07.01.97	No treatment
08.01.97	Inj. Berenil 0.8 g./100 lbs deep i/m with supportive therapy
09.01.97	Supportive therapy
10.01.97	Supportive therapy
11.01.97	Supportive therapy
12.01.97	Supportive therapy
13.01.97	Supportive therapy
14.01.97	Supportive therapy
15.01.97	Second dose of Berenil

Note : See Observations - Summary Report on next page.

REFERENCES:

- Arora, B. M. (1996) Wildlife diseases in India, Delhi.
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Observations - Summary Report

Date	Feed(B.M.)	Temp.	Observation
17.12.96	10 kg.	-	Normal, but eaten only 5-6 kg. B.M.
18.12.96	6 kg.	-	Observed normal but eaten 5 kg. B.M..
19.12.96	4 kg.	-	Observed normal but eaten 4 kg. B.M.
20.12.96	Friday	-	Dull and depressed entire day.
21.12.96	6 kg.	-	Observed normal
22.12.96	8 kg.	-	Observed normal
23.12.96	8 kg.	-	Observed normal
24.12.96	8 kg.	-	Observed normal but taken only 5-6 kg. B.M.
25.12.96	6 kg.	-	Observed normal
26.12.96	6 kg.	-	Observed normal but eaten only 2-3 kg. B.M.
27.12.96	Friday	-	Observed normal but stool w. mucous & blood strain
28.12.96	5 kg.	102.4°-103°	Dull, depressed & recumbent entire day
29.12.96	6 kg.	102.4°-104°	Observed to be normal, but behaviour abnormal ; did not response the calls. Recumbent after few steps.
30.12.96	6 kg.	103°-104°	Observed normal in am; pm observed to be restless
31.12.96	7 kg.	102.°-103°	Observed normal
01.01.97	7 kg.	103°-106°	Observed estless but consumed 5 Kg. B.M.
02.01.97	6 kg.	102.1°-104.2°	Dull, depressed w. mucous & blood stain in stool
03.01.97	Friday	103°-104.6°	Observed as weak; consumed 4 Kg. B.C.
04.01.97	6 kg.	104.5°-105.2°	Dull & depressed, stool with excessive mucous & blood stain ; consumed 3 Kg. B.C.
05.01.97	6 kg.	103°-104°	Dull & depressed, (Nictilaising memberanes) N.M. prominant of right eye / faeces with excèssive mucous; complete anorexia
06.01.97	6 kg.	102.2°-104.2°	Dull, weak & depressed ; completely anorexia; N.M. prominant at both side, faces with excessive mucous and blood stain; consumed 2 Kg. B.C.
07.01.97	2 kg.	106°-100°	Dull, depressed, eaten broiler & B.C. after 5 hr. of treatment but observed to be very weak.
09.01.97	3 kg.	101°-102°	Normal
10.01.97	Friday	100°-102°	Normal
11.01.97	6 kg.	102.1°-102°	Released & returned to enclosure
12.01.97	6 kg.	-	Normal
13.01.97	6 kg.	-	Normal
14.01.97	6 kg.	-	Normal
15.01.97	6 kg.	102.2°-102.1°	Normal
16.01.97	6 kg.	-	Normal
17.01.97	Friday	-	Normal
18.01.97	8 kg.	-	Normal
19.01.97	8 kg.	-	Normal
20.01.97	9 kg.	-	Normal & returned to full diet

