


**CLINICAL MANAGEMENT OF
SOYA BEAN ASSOCIATED
ALKALINE INDIGESTION
IN A BULLOCK – A CASE REPORT**

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- ▶ **Soybean (US) or soya bean (UK)** is a species of legume native to East Asia, widely grown for its edible bean which has numerous uses.
- ▶ The plant is classed as an oilseed rather than a pulse by the UN Food and Agricultural Organization (FAO).
- ▶ Soybean Scientific classification:

Kingdom	: Plantae
Order	: Fabales
Family	: Fabaceae
Subfamily	: Faboideae
Genus	: Glycine
Species	: <u>G. max</u>



PARTICULARS OF OWNER & ANIMAL

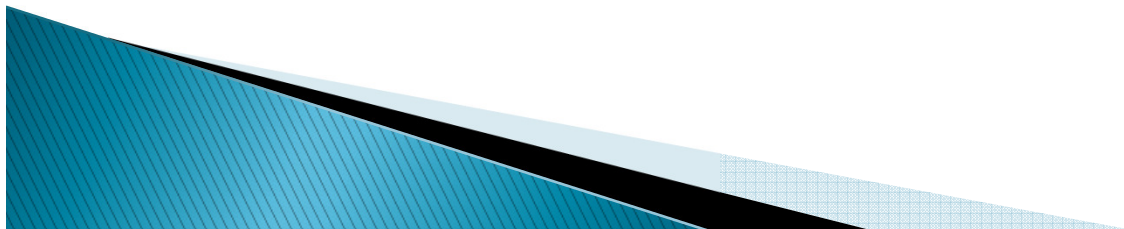
▶ Case No. 77

Date: 12-07-2014

▶ **Owner Particulars:** Linganna,
Ragavpet Villaga, Korutla Mandal
Karimnagar district, Telangana.

▶ **Animal Particulars:**

Species	: Bovine	Breed	: ND
Sex	: Male (Bullock)	Age	: 10 years
Colour	: White		



HISTORY

- ▶ Bullock has brought to the Teaching Veterinary Clinical Complex, College of Veterinary Science, Korutla with the history of adlib soya bean intake 4 days back.
- ▶ Owner has reported that it has taken more than 5 k.g of soya bean seeds. Then onwards it is dull, not taking feed and not voiding faeces.
- ▶ Owner has taken the bullock to near by Veterinary hospital for 2 days but there was no improvement. There bullock was treated with rumentorics and B-complex injections.



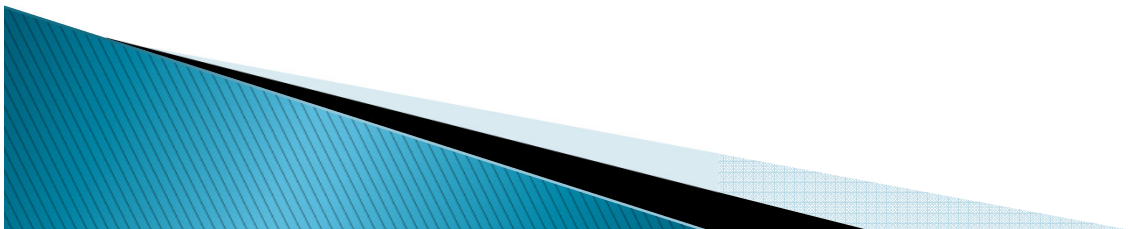






Physical examination:

- **General body condition** : Lean
- **Demeanor** : Dull, Depressed and very weak
- Fetid mouth odor
- Profuse frothy salivation
- Mild dyspnea
- Animal is severely dehydrated with prominent sunken eye balls and with skin tenting time more than 10 seconds at upper lid region.



CLINICAL EXAMINATION

- ▶ Detailed clinical examination has revealed,

Temp : 96.6 °F

Pulse : 93/ minute

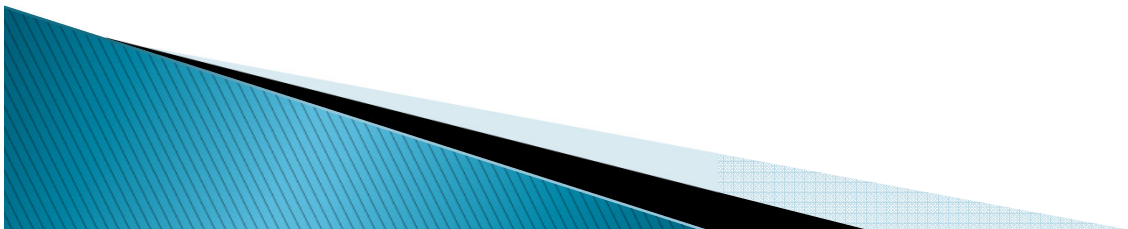
Heart rate : 58 beats/ minute

Resp. rate : 35/ minute

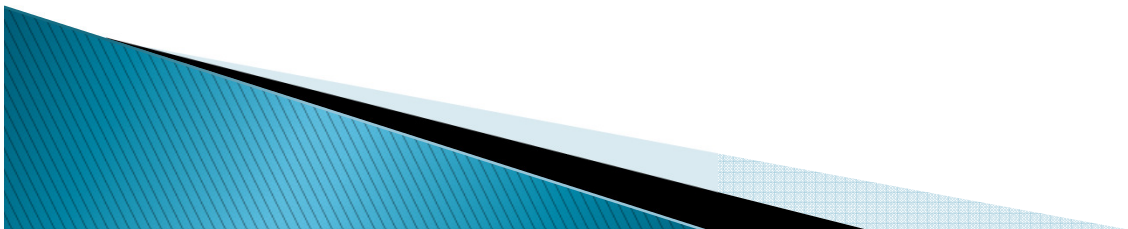
C.M.M. : Slight pale & dry

B.M.M. : Normal but dry

Rumen motility: Complete atony of the rumen
with mild tympany,



- We have collected dung, urine, blood
- Faecal sample is negative for parasitic ova
- Peripheral blood smear is negative for haemoprotezoans
- In serum increased BUN levels was noticed
- Urine examination:
 - Colour : Normal
 - Odour : Slight pungent



Rumen fluid examination

❖ We could able to aspirate 1 ml of rumen fluid with 16 G needle fitted to 20 ml syringe, after proper sterilization of the collecting site(mid Left paralumbar fossa) and did rumen fluid examination. While poking the needle itself there was pungent odour.


▶ RUMEN FLUID OBSERVATIONS:

Colour	: dark brown
Consistency	: Watery
Odour	: foul and putrid
pH	: 8.5

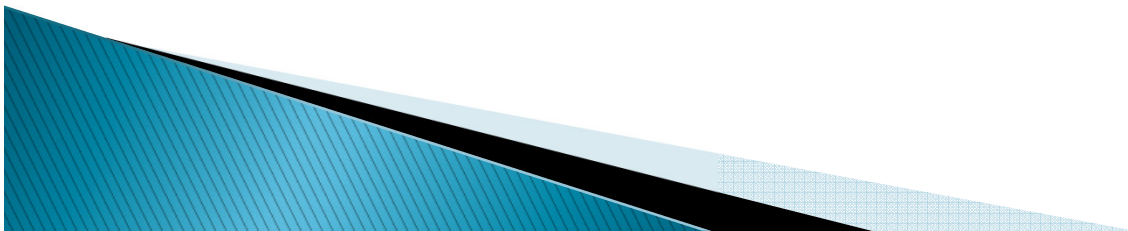
▶ Microscopic examination has revealed all dead protozoa



TREATMENT

- ▶ We have removed the dung manually as much as possible.
 - ▶ Animal was treated with the following medication
 - Inj. DNS 900 mL i.v
 - Inj. RL 450 mL i.v
 - Inj. Histanil 20 mL i.m
 - Inj. Intamox 3375 mg i.v
 - Inj. Belamyl 20 mL i.m
 - ▶ Drenched Magsulf orally by mixing 50 g of magsulf powder in 2L of water.
 - ▶ Advised owner to drench tamarind water (around 1/4th kg of tamarind mixed in 2L of water which act as acidifier).
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- ▶ Treatment with i.v fluids and antibiotics was repeated for two more days, where as antihistamines and supportive treatment with Belamyl was continued for 5 days.
- ▶ Rumentas bolus @ 4 daily for 3 days were advised for 5 days after voiding the dung.
- ▶ Bullock started started taking green grass from 4th day onwards and was recovered fully in 10 days.



THANK YOU

