

Ethnoveterinary Practices



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1. Herbal masala bolus for all Digestive Problems

This preparation is good for all digestive problems viz. anorexia, indigestion, off feed, absence of rumination, impaction etc.

Ingredients needed for 5 dairy animals / 10 sheep or goats are given below:

Kalimirsch (black pepper) 10 gm, Jeera (cumin) 10gm, Dhaniya (coriander seeds) 20 gm, Fenugreek (methi) 20 gm, Ajwain (*Trachyspermum ammi*) 10 gm, Adrak (ginger) 50 gm, Haldi (turmeric) 50 gm (fresh), Gheekumari (*Aloe vera*) 100 gm, Galo / batindu (*Tinospora cordifolia*) stem and leaves 100 gm, Neem leaves 100 gm, Moringa / Sahjan (*Moringa oleifera*) leaves 100 gm, Guava leaves / Amrood (tender) 100 gm, Bari Chirmi / Chirputa (*Cardiospermum halicacabum*) 100 gm, Lahsun (garlic) 50 gm, Lallmirsch (red pepper /chillies) 50 gm, Paan (betel leaves) 10 number, Tulsi leaves 50 gm, Tarwar leaves and flowers (*Cassia auriculata*) 100gm, Nariyal (Coconut) 100 gm, Gud (Jaggery) 100gm, rock salt 50 gm, Khaneka soda (Sodium bicarbonate) 100 gm.



Galo / batindu



Gheekumari



tarwar



Karipatta

Method of preparation

First grind all dry items in a mixi viz. black pepper, jeera, coriander seeds, fenugreek, ajwain, red chillies).Then grind all the fresh herbs viz. Aloe vera, curry leaf, garlic, tulsi, ginger, turmeric, coconut (grated), galo and tarwar.After that mix together both the above items. Now add jaggery (after making into small pieces), and rock salt, (sodium bicarbonate) and mix it thoroughly.



Dosage:

At the end make a bolus of 100 gm each (lemon fruit size) and administer orally. For young animals (calf, sheep or goat) give half the quantity or reduce the quantity according to the body weight of animals. It can be given monthly once preferably in empty stomach. For problematic cases continue the treatment for 2 -3 days.

Herbal masala bolus will also give some relief for Repeat breeding/ reproductive problems, internal parasites, Preventive medicine for Foot and Mouth Disease, Blue Tongue,

fever, Mastitis, Hemorrhagic septicemia.

2. Tympani

Symptoms: Stomach bulged and difficulties in breathing

Causes: sudden change in feed materials, excess intake of legumes, dining waste

Treatment:

1. Administer 200 ml each of castor oil (*Ricinus communis*) and lukewarm water are shaken well and administered orally at an interval of 4 – 6 hrs for large animals.
2. Betel leaves (paan) 10 number, ginger (Adrak) 20 gm, black pepper (kalimirsch) 10 gm,
3. Garlic (Lahsun) 10 gm, rock salt 50 gm are pounded and mixed in lukewarm water and administer orally at 6 hours interval for large animals.

Reduce the quantity to small animal s according to the body weight of animals



Paan



Adrak



kalimirsch

3. Diarrhea

Symptoms: Watery dung

Causes: Indigestion, intake of spoiled feed or eating toxic plants

Treatment: Grind one handful each of tender leaves of pomegranate (Anaar), tender leaves of neem, tender leaves of guava along with dried ginger 50 gm, jaggery 100 gm and make 3 bolus and administer one bolus at a time for 3 times until diarrhea gets cured.



Neem



Amrud, jamphal



Anaar

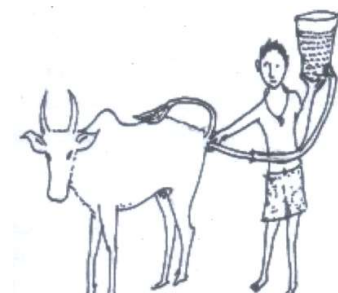
4. Constipation

Symptoms: Lack of defecation or hard pelleted dung

Causes: Fever, heat stress and dehydration

Treatment:

1. Enema can be given (boil 10 litres of water after adding



100 gm neem leaves and cooled and administer through rectum of large animals). Avoid early stage pregnant animals.

2. Laxatives like castor oil, raw lin seed oil (500ml) can be given for 1-2 days according to species and body weight of animal. Given as drench for 2-3 days or as required.
3. A decoction prepared with 100 gm of *haldi* (turmeric rhizome) in 1 litre of water may be given once daily for 1-3 days to large animals.

5. Endoparasites (Intestinal worms)

Symptoms

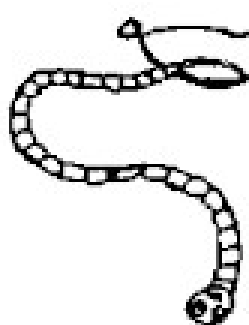
Animals emaciated, thick body hairs, foul smelling stools with worms

Causes

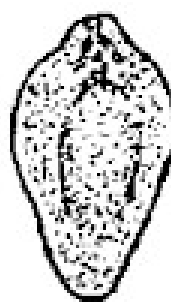
Round worms, tape worms, hookworms infestation



Round worms



Tape worm



Fluke



Schistosomes

Treatment:

Ingredients

Leaves of nirgundi (*Vitex negundo*), Leaf petals of *kharpad* (*Aloe vera*), Neem seeds, Leaves of sangkupi (*Clerodendrum inerme*), Leaves of *akamadar* (*Calotropis gigantea*)



Neem



Nirgundi



Gheekumari



Sangkupi



Akamdar
(*Aak*)

They are to be taken at 1 kg each. All are to be grind well by sprinkling little water and filtered and 4 litres of herbal mixture can be obtained. Then 30 ml of the extract is taken and administered for one adult sheep or goat. For younger sheep or goat less than 3 months old 10 ml has to be administered orally. For adult cattle 100 ml has to be administered. This can be stored for more than one month.

The dewormer arrest loose motion and result in solid dung and it is free from obnoxious odor. It increases grazing efficiency of animals and they look healthy.

6. Ectoparasites (Lice, ticks, mites)

Symptoms: Presence of parasites visible all over the body, animal emaciated, dull and death in severe cases.



Treatment:

1. Lahsun (Garlic), Tulsi, neem leaves, haldi(turmeric), seethapal seeds each 10-20 gm are ground together and boiled in 250 ml of neem oil and applied over the surface of the body of large animal.
2. Whole plant of Raimuniya (Lantana camara) is chopped and crushed and diluted with the urine of cattle for 3 days and apply externally.
3. Boil tobacco leaves and stalk 250 gm in 2 lit. of water and add 5 lit. of water and sprayed over the body of 10 -20 animals.



Raimuniya



Seethapal



Tobacco

7. Respiratory tract Infections

Symptoms: Heavy snoring, difficulty in breathing

Treatment:

1. Take leaves of *Thulsi* (*Ocimum sanctum*) 100 gm, leaves of *arusha* (*Adhatoda vasica*) 100 gm, ginger 50 gm, pepper 10 gm, jaggery 100 gm and boil in 1 lit. of water and administer 100 – 250 ml of the decoction 2 -3 times daily.
2. Few fruits (6-8 number) of *kantakari* / *kateli* (*Solanum surattense*) are crushed and soaked in goat urine over night and filtered and few dr ops are squeezed in to the nostrils (maximum 6 drops).



Arusha



Kantakari / kateli

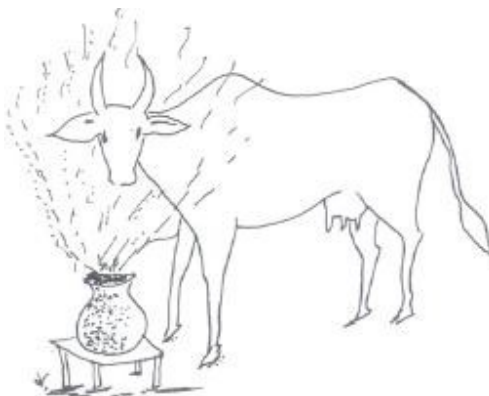
8. Animal Fever

Symptoms

Shivering of the body and limbs, erect hairs, watery eyes, recumbent and unable to get up, off feed and water, reduction in the milk yield.

Treatment:

- Take a mud pot and put few charcoal or wooden piece and burn them for few minutes and put off the fire. Now add neem seeds 200 gm in the mud pot to produce smoke. The smoke has to be directed towards the head of the animal to inhale.
- Ajwain, haldi (*jungli haldi*), garlic, pepper 5 gm each taken grind together and diluted in hot water administered orally twice a day.
- Feed the animal with rice or bajra porridge by boiling in water with broken grains (500 gm.)
- Provide drinking water after boiling the water and cooled. Feed only dried hay or straw and avoid green fodder.



9. Foot and Mouth Disease

Symptoms: Ulcers in mouth and cleft of hooves, drooping saliva and difficult to walk

Causes: Foot and Mouth Disease Virus

Treatment:

Ingredients required

Haldi (Turmeric) 200 gm (freshly harvested rhizome is preferred), coconut kernel extract (from 1 coconut), gheekumari (Aloe vera) – 200 gm, palm jaggery 200 gm, common salt 100 gm, garlic 100 gm, pepper 50 gm, cumin 50 gm, fenugreek 50 gm.

The above ingredients viz. turmeric, gheekumari, garlic, grated coconuts are ground well through grinder/ mixi by using sufficient water and collected in a vessel. Then make powder of pepper, cumin, fenugreek and all ingredients are mixed together thoroughly and add sufficient water to make it about 1 liter. Then filter it and administered orally.

Dose

100 ml at a time for adult animals or 50 ml for young ones or sheep or goats. Before giving the treatment the animals are to be fed with banana (2 numbers) soaked in sesame oil (Til ka tel) 50 ml. This is to be continued for 3 days.



For treatment of wounds in the foot region:

A special wound healing *thaila* can be prepared by using following ingredients:

1. *Sesame oil* (Til ka tel) 1 lit, *haldi* (freshly harvested preferred or turmeric powder 50 gm) 100gm, garlic - 50gm; neem leaves 10 gm, leaves of *mehanthi* (*Lawsonia inermis*) 10 gm, *kuppi* (*Acalypha indica*) 10 gm. Ground the herbal items and mix with the oil and boil the oil well and filtered. The oil can be stored in a bottle. This *thaila* can be applied over the affected foot region of animals for 3 days continuously or till the point of cure. OR
2. Coconut oil 500 ml. and Datura leaf extract 500 ml are taken together and boiled in a vessel till about one hour so as to get oily texture. Then put off the fire and add *tutiya* (copper sulphate) 5 gm and stir it well. Now this *thaila* is stored in a bottle and used for all types of wounds including maggot wounds in animals.



Datura



kuppi



Haldi



Gheekumari

Note: Also feed the animal with gruel prepared by boiling with ragi, wheat and bajra flour each 100 gm – 200 gm with sufficient water in a vessel. This is given twice a day for 3 days.

10. Mastitis in Dairy animals

Symptoms: swollen, hot udder; milk discoloured with pus and thread like substance

Causes: Microbes

Treatment:

Ingredients required:

- (1) *Gheekumari* (Aloe vera) - 2 or 3 petals (2) *Haldi* (Turmeric) powder – 50 gm (3) *Chunna* (Lime powder) - 10 gm

All the above ingredients are ground well and made in to a paste apply over the udder thrice a day for 3-7 days depending upon the disease incidence. Before applying, the udder and teats should be washed with boiled water for 3 times for 5 days. Administer orally 50 gm of khaneka soda (sodium bicarbonate) in the juice of lemon (4 fruits) dissolved in 200 ml of water.



Haldi



Gheekumari

11. Infertility

For animals suffering repeat breeding, infertility or suboestrus or not coming to heat the following method has to be followed.

Administer orally Gheekumari (Aloe vera) 1-2 petals for 3 days in the empty stomach. Administer orally sprouted *chana dal* (bengal gram) or sprouted bajra or sprouted wheat 200 gm daily for 15 days. When signs of oestrus cycle is noticed administer orally neem oil 100 - 150 ml before taking the animal for insemination or natural crossing (insemination shall be within 24 hours of noticing the symptom). After insemination feed the animals with curry leaves about 2 handful daily for a week.



Gheekumari



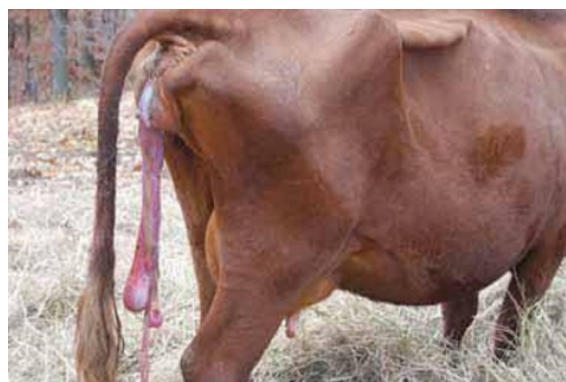
Chana dal

12. Retention of Placenta:

Symptoms: Non – shedding of placenta beyond 3-5 hours post-partum

Treatment:

1. The bhendi (lady's finger) pods 1 kg is taken and ground well by using a mixer and the juice is diluted in water and administer orally twice a day.
2. Seeds of sesame 100 gm and jaggery 100 gm are taken and pound together and made into bolus and administered orally. OR
3. Take *Bada goksur* (*Peadiium murex*) plant about 200 gm, pound and soaked in 1000 ml of water and stir well and drenched.



Sesame plant



Bada goksur

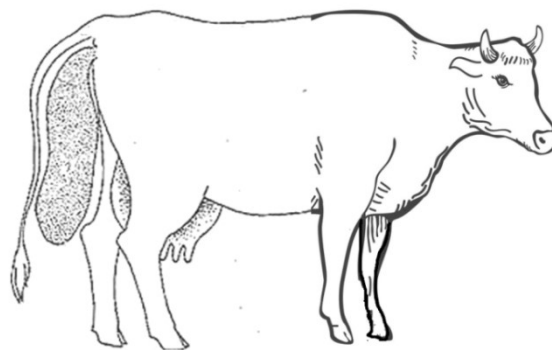


Bhindi

13. Prolapse of the Uterus

Treatment

Clean the mass with potassium permanganate solution (1 ml in 1 lit. water) and then sprinkle Epsom salt or sugar over it. Lift the mass by placing banana leaf with both hands (special care must be taken to avoid laceration or tear with nails, and hand must be washed in the antiseptic lotion). Mostly the urinary bladder will be filled. After lifting of the mass urine will easily go out and the mass will easily go inside.



Leaves of touch me not / Chhui-Mui (*Mimosa pudica*) whole plant two handfuls are ground well and mixed with 200 ml goat or cow milk to be administered orally for three times (morning, evening and next day morning). Keep the animal in a slightly slanting position in such a way that keeping the head portion in a lower level at least for a week.



Chhui-Mui

14. Blue Tongue Disease in Sheep and Goats

During rainy season, sheep farmers face economic loss due to sudden death of sheep by a new disease called as blue tongue disease.

Symptoms

Ulcer in the mouth, oozing of fuzz like substance from the mouth and limping while walking and sometimes in the lying position. If the animal is lifted the hairs in the body will fall off. Animals will not take feed but drink little water. In the severity of the disease the animal will die on 15th day or so.

This disease is caused by a virus and mosquitoes or insects act as vectors.

Treatment

Since the animal is not taking any feed the starvation may lead to death. So the animal has to administered orally the following recipe.

- i. Banana fruits smeared with sesame oil and fed to animals for 2 to 3 times. Half a litre of sesame oil with 20 bananas are sufficient to treat 20 sheep. By this an imal will recover little.
- ii. Next the leaf pulp of Aloe vera (100 gm) has to be administered daily. Administering of Aloe vera has to be continued for more days till the animal fully recovers from this disease.

Administering *Aloe vera* also increases the body weight of animals as it acts as dewormer against intestinal parasites. This can also be administered as preventive treatment on monthly interval especially during rainy season.



Gheekumari

15. Poisonous bite or Food poisoning

Symptoms

Swollen eyelids, hypothermia, body surface chilled, discolouration of the skin or coat, sweating and rashes on the body.

Treatment

Leaves of betelvine, tulsi, pepper, dried *adrak* (sontha) each 10 gm. are pound together and mixed in warm water and administered orally.



Paan



Tulsi



Sontha

16. Eye Injuries

Leaves of bimba (*Coccinia grandis*) or tender leaves of arandi or castor (*Ricinus communis*) are crushed by mixing with a pinch of salt and the juice is applied for few drops (2) in the eyes for 2 days.



Bimba



Arandi (castor)

17. Wounds

Prepare special *thaila* (oil) and apply over the wound: Coconut oil 250 ml. and Datura leaf extract 250 ml are taken together and boiled in a vessel till about one hour so as to get oily texture. Then put off the fire and add *tuutiya* (copper sulphate) 2.5 gm and stir it

well. Now this *thaila* can be stored in a bottle and used for all types of wounds including maggot wounds in animals.



Datura



Tuutiya

18. Calf Scour

This caused by bacteria and it affects calf of cattle and buffaloes

Symptoms

Loose motion with foul smell and fever. dull inactive with sunkun eyes, temperature rises to 104°F .

Treatment

Sontha (*Zingiber officinale*) 50 gm, guava (*Psidium guajava*) tender leaves 200 gm. are ground and made into a bolus and administered orally one or two times.



Sontha



Amrud (Jamphal)

19. Panchagavya for Animal Health

This preparation overcome problems of infertility or repeat breeding.

Ingredients

Mix 5 products of cow (dung, urine, milk, curd, ghee) together by taking 1 kg of cow dung, 1 lit cow urine, 1 lit of milk, 1 lit of curd, 100 gm of ghee.

In addition add 2 banana, sugarcane juice 1litre or jaggery 500gm are added in a plastic barrel and allow them for 1 week for fermentation. Now administer 200 ml-300 ml of *panchagavya* monthly once for general upkeep of cattle or 100 ml for sheep or goat on monthly basis. For dogs affected with skin disease (oozing of body fluid from

the skin) can be given by administering 100 ml of *panchagavya* for 3 days continuously. For poultry birds mix about 50 ml of *panchagavya* along with feed for feeding a dozen birds. *Panchagavya* fed chicken lay eggs of bigger size and also the growth of the bird is quick and faster.

20. Milk fever or Calcium Deficiency:

The disease usually occurs in dairy animals caused by decrease in blood-calcium level, generally within 48 hours after calving.

Treatment:

Take 1 kilo of lime stone (Calcium hydroxide) and put in a mudpot . Add 20 litres of water and keep it overnight. Take 500 ml of supernatant water(top watery layer) and feed the animal daily by mixing in animal drinking water . While taking the upper layer of water add equal quantity of fresh water of 500 ml added daily. Every 20 days change the whole content with fresh limestone and water.

This practice can be followed regularly and it prevents diseases caused due to calcium deficiency.

21. To Increase Milk Yield in Dairy Cows

Ingredients needed:

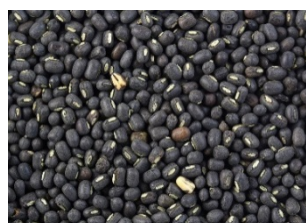
Bottle gourd or white coloured Pumpkin 200 gm, Coconut (grated) 200 gm, Black gram 200 gm, Jaggery 200 gm



Bottle gourd



Coconut (grated)



Black gram



Jaggery

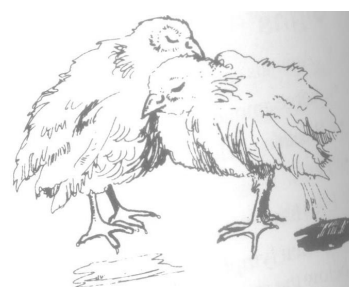
Black gram is to be soaked for overnight. It is to be ground well along with coconut, bottle gourd (chopped) and jiggery. Then the paste like substance is to be fed to the animal. It should be given once a day for 2-5 days.

22. Poultry Diseases:

22.1 For Ranikhet disease:

Symptoms

Diarrhoea, excreta is watery, green with foul odor; discharge from the nose; coughing and sneezing; swelling of the head; head and neck twisted to one side; drooping wings, dragging legs; sleepiness; full, distended crop; convulsions and paralysis; death.



Precaution

The disease affected chicken are to be removed and kept separately .

Treatment

Leaves of *utarn* (*Pergularia daemia*) 20 gm, leaves of *kirayat* (*Andrographis paniculata*) 20 gm, fresh haldi (turmeric: *Curcuma longa*) 20 gm, garlic 20 gm and onion 20 gm are chopped together and fed with other poultry feed occasionally as preventive or curative treatment.



Utarn



Kirayat



Haldi

22.2 For Lice Infestation of Poultry



Symptoms

Small, white lice lay eggs on the feathers ; lice moving on skin and feathers ; reduced egg production; slower weight gain ; birds constantly peck at themselves or scratch themselves with their beak.

Treatment

1. Spread crushed leaves of *sithapal* (*Annona squamosa*) or *Aak* (*Calotropis*) inside poultry nest and lice collected over the leaves can be disposed off hygienically.
2. Garlic, Tulsi, neem leaves, seethapal seeds, haldi (turmeric) each 10-20 gm are ground together and boiled in 250 ml of neem oil and applied over the surface of the body of 10-15 birds.



Sithapal



Haldi



Lasun



Neem



Aak

Spraying water in the nest will also wash away the lice.

22.3 Fowl Pox

Symptoms

Fowl pox, also known as avian pox, is viral disease characterized by lesions on unfeathered parts of the body. The wet form of fowl pox causes lesions in the throat and upper respiratory tract. It leads to weight loss, eye swelling, scabs and wart-like lesions, yellow canker lesions, lower water consumption.



Treatment

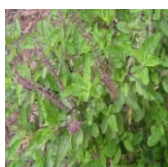
1. Garlic 10 bulblets, turmeric powder 10 gm, thulasi leaves 50 gm, camphor 5 gm, neem leaves 50 gm, cumin 20 gm are to be pound well and mixed along with castor oil or neem oil. This has to be heated and applied over the affected places of birds.
2. Mix 50 gm of herbal masala bolus in the poultry feed for 10 birds (refer preparation of herbal masala bolus).



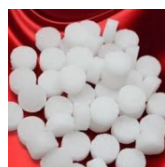
Haldi



Lahsun



Thulasi



Kapoor



Neem



Jeera