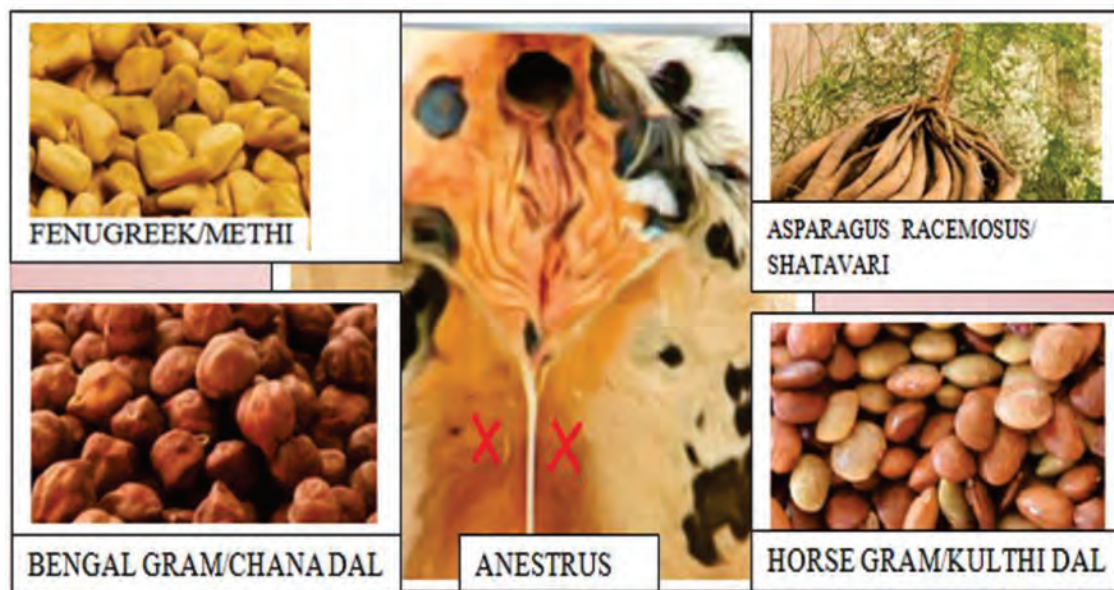


## Ethnoveterinary practices used in the treatment of different bovine ailments

### 1. Anestrus (Sarswat, & Purohit, 2020)

Ingredient	Quantity to be fed	Function
Fenugreek/Methi seed	1g/kg body weight	Enhance reproductive performance by stimulating the oviduct through their active ingredients such as saponins and alkaloids and due to higher amounts of major minerals (iron, calcium, and phosphorus) and trace minerals (copper manganese, and zinc).
Asparagus racemosus/ Shatavari root powder	100-200 mg/kg for 90 days postpartum	Estrogenic property to stimulate ovarian function, uterine tonicity property for early uterine involution and consequently early initiation of the estrous cycle, antioxytotic action on uterus which helps in conception or condition associated with hypermotility of the uterus as in threatened abortion, immunomodulator, antioxidant and anti-stress agent.
Germinated Bengal gram or Horse gram	200 gm orally for 7 days	Improves reproductive performance and helps in the initiation of estrus.



**2. Retention of placenta** (Sarswat, & Purohit, 2020)

Ingredients and Quantity to be fed	Mode of application
2 kg pearl millet grain+ 100g of methi seeds+50 g of asalio+25 g of suva+ 500 g of jaggery boiled in water for one hour	Orally
Chickpea flour (1 kg) mixed with buttermilk (chach)	Orally
Crushed <i>Moringa stenopetala</i> bark (0.5 kg) + 1 litre of warm water, Sieved and administered as a drench @ 1 litre for a cow, 0.5 litre for a sheep or goat) every 2 hours until the placenta is discharged	Drenching
250 gm sesame plants ( <i>Sesamum indicum</i> ) leaves pounded with 1litre of water	Drenching
Crushed 200 gm Bada goksur ( <i>Peadiium murex</i> ) plant soaked in 1 litre of water	Drenching
Balanites aegyptica Del. fresh leaves soaked in water with leaves of T. indica for about one day	Orally
Hibiscus sabdariffa Linn Apical part of plant	Orally
Ficus thonningii Blume Fresh leaves	Orally
S. bicolor, Linn. Moench Apical part of plant	Orally
Wood ash powder	Rub ash powder around vagina



Asalio/halim seed



Suva seed/Dill seed



Retention of placenta



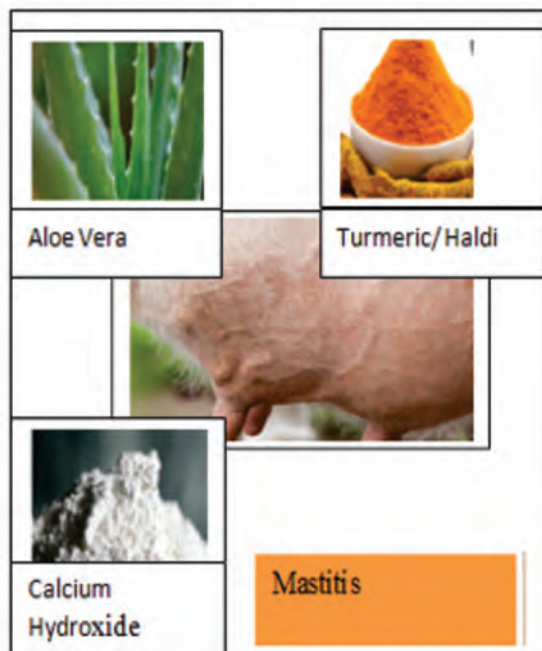
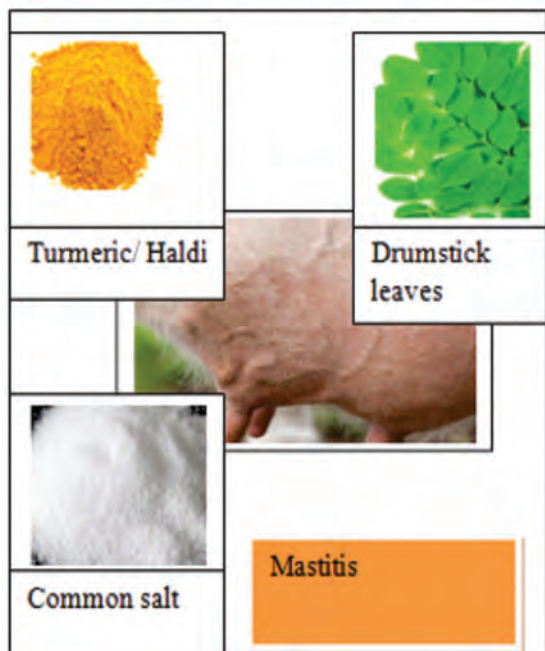
Pearl millet/Bajra



Fenugreek/Methi

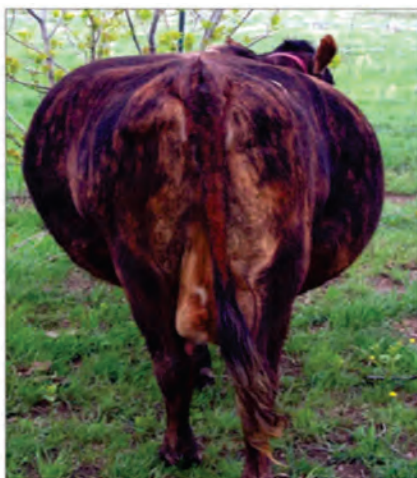
### 3. Mastitis/ Thanela rog

Plant/Ingredient	Part used/Mode of application
Aloe vera leaves, Curcuma longa rhizome (Haldi) and Calcium hydroxide (chuna) paste (Balakrishnan <i>et al</i> , 2017)	Remove milk from all quarters and wash udder with lukewarm water. Apply the paste to the affected udder 10 times daily for a week.
Benachu kallu+ Desi butter+ Betel leaf (Piper betle) paste and Sambrani (Benzoin resin) smoke to fumigate (Mooventhan <i>et al</i> , 2016)	Apply paste on affected udder followed by Sambrani (Benzoin resin) smoke fumigation for 5 – 10 minutes twice a week.
Turmeric rhizome powder (Curcuma longa) + Drumstick leaves (Moringa oleifera) +Common salt (Sodium chloride) (Mooventhan <i>et al</i> , 2016)	Blend Turmeric rhizome powder with Drumstick leaves paste for 30 minutes and add salt. The mixture is applied thrice a week
Lyonia ovalifolia (Anyar-Ericaceae) (Phondani <i>et al</i> , 2010)	Bark of Lyonia ovalifolia is ground to powder and mixed with ash of Quercus leucotricophora and its smoke is used.



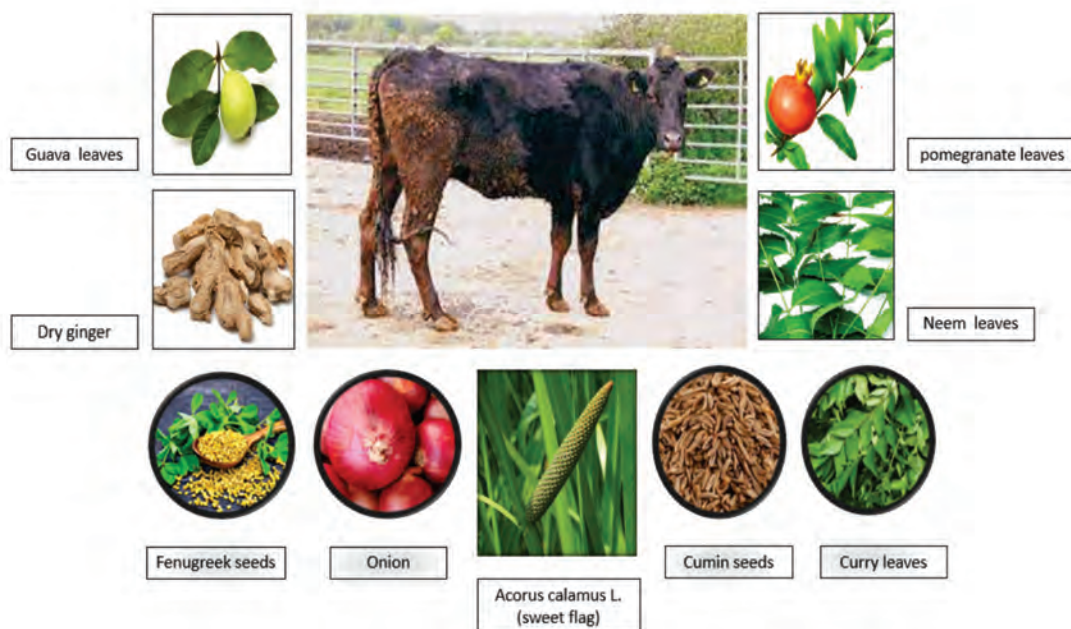
#### 4. Bloat/ Tympany

Ingredients	Quantity	Preparation	Application
Castor oil ( <i>Ricinus communis</i> ) Lukewarm water (Vivekanandan, 2022)	200 ml 200ml	Mixed by shaking	Oral administration every 4-6 hours
Common salt (sodium chloride) Wood ash (Khateeb <i>et al</i> , 2015)	60g 100g	Mixed	Fed twice a day
Beetle leaves (paan) Ginger (adrak) Black pepper Garlic (lahsun) Rock salt (Vivekanandan, n.d.)	10 in no. 20 gm 10 gm 10 gm 50gm	Pound and mix well in lukewarm water	Oral administration at 6 hours interval
Angelica glauca Edgew (chora, choru, chouria) roots (Khateeb <i>et al</i> , 2015)	300gm	Grind and mix in water	Drench twice a day



### 5. Diarrhoea

Ingredients	Quantity	Preparation	Application
Tender leaves of Pomegranate (Anar), Guava (amrud), Indian lilac (Neem) Dried ginger Jaggery (Vivekanandan,2022)	One handful of leaves 50gm 100gm	Grind and make three bolus	One bolus at a time, thrice daily
Fenugreek(methi) seeds Onion (pyaaz) Garlic (lahsun) Cumin seeds (jeera) Turmeric (Haladi) Curry leaves (Kari patta) Poppy seeds (khas khas) Black Pepper (kali mirch) Jaggery (gud) Asafoetida (heeng)	10gm 1 in no. 1 pearl 10gm 10gm 1 handful 5gm 10gm 100gm 5gm	Dry fry cumin seeds, asafoetida, poppy seeds, and fenugreek seeds Grind the fried seeds and mix with the rest of the ingredients to make a paste Roll the paste into small balls	Oral administration, once daily
Acorus calamus L. (sweet flag)(Khateeb <i>et al</i> , 2015)	Whole plant	Grind	Feed 100 gm twice a day, for 2 days



**6. Miscellaneous ailments** (Vivekanandan, 2022)

<b>Ailment</b>	<b>Ingredients</b>	<b>Method</b>	<b>Application</b>
Traumatic wounds and maggot infestation	Coconut oil 250 ml, Datura leaf extract 250ml and Copper sulfate 2.5gm	Boil datura leaf extract in coconut oil for 1 hour and add copper sulfate to it.	Directly on wound
Eye injuries	Leaves of Bimba ( <i>Coccinia grandis</i> ) and Castor ( <i>Ricinus communis</i> )	Crush, mix with a pinch of salt, and extract Juice	Few drops in the eyes
Ectoparasites	20 gms each of Garlic, Tulsi, Neem leaves, Seethapal Seeds, Turmeric, and Neem oil	Grind and boil in neem oil	Directly applied over the body
Poisonous bite	10 gm each of betel vine Leaves (paan), tulsi, pepper, dried ginger	Grind and boil in warm water	Administer orally and add a few drops to the eyes
Respiratory tract infections	100 gm leaves of Tulsi ( <i>Ocimum sanctum</i> ) and arusha ( <i>Adhatoda vasica</i> ), 50 gm ginger, 10 gm pepper and 100 gmjaggery	Boil all the ingredients in 1 liter of water	Administer 100 – 250 ml of the decoction 2-3 times daily.

