

## PART II

# HERBAL PRACTICES & PRODUCTS

This section contains details of herbal preparations used traditionally for various ailments and products based on such traditional knowledge.



## Uses of *Achyranthes aspera* L. (Apamarg)

### NIF Database

#### Uses from Bihar

##### Toothache

Teeth brushed with freshly plucked roots  
- *Bhagvat Prasad Yadav, Nawada, Bihar\**

##### Itching

Powdered roots (5g) taken orally with water twice a day for seven days  
- *Indira Kumari, East Champaran, Bihar\**

##### Fever

Roots (5g) ground with half black pepper into a fine powder, which is administered orally  
- *Rajkishor Prasad, Shivhar, Bihar\**

##### Hemorrhoids

Dried roots ground into a fine powder; one spoon of this taken empty stomach till cured  
- *Vishwanath Mahato, East Champaran, Bihar\**

#### Veterinary practice

##### Topical inflammation

Plant paste applied externally on topical inflammation  
- *Sheikh Hifazat Hussain, East Champaran, Bihar\**

#### Uses from other states

##### Headache

Tablets (of about 5g) prepared from the pounded roots; one tablet taken in the morning with water for three days  
- *Jagjit Bahadur, Sitapur, Uttar Pradesh\*\*\**

##### Asthma

The whole plant (50-100g) ground into a fine powder. 5g of this powder taken with water till cured  
- *Ahmed Hussain, Lohardaga, Jharkhand\*\**

##### Poisonous bites

Root paste applied on the spot of bite and also administered orally  
- *Jagjit Bahadur, Sitapur, Uttar Pradesh\*\*\**

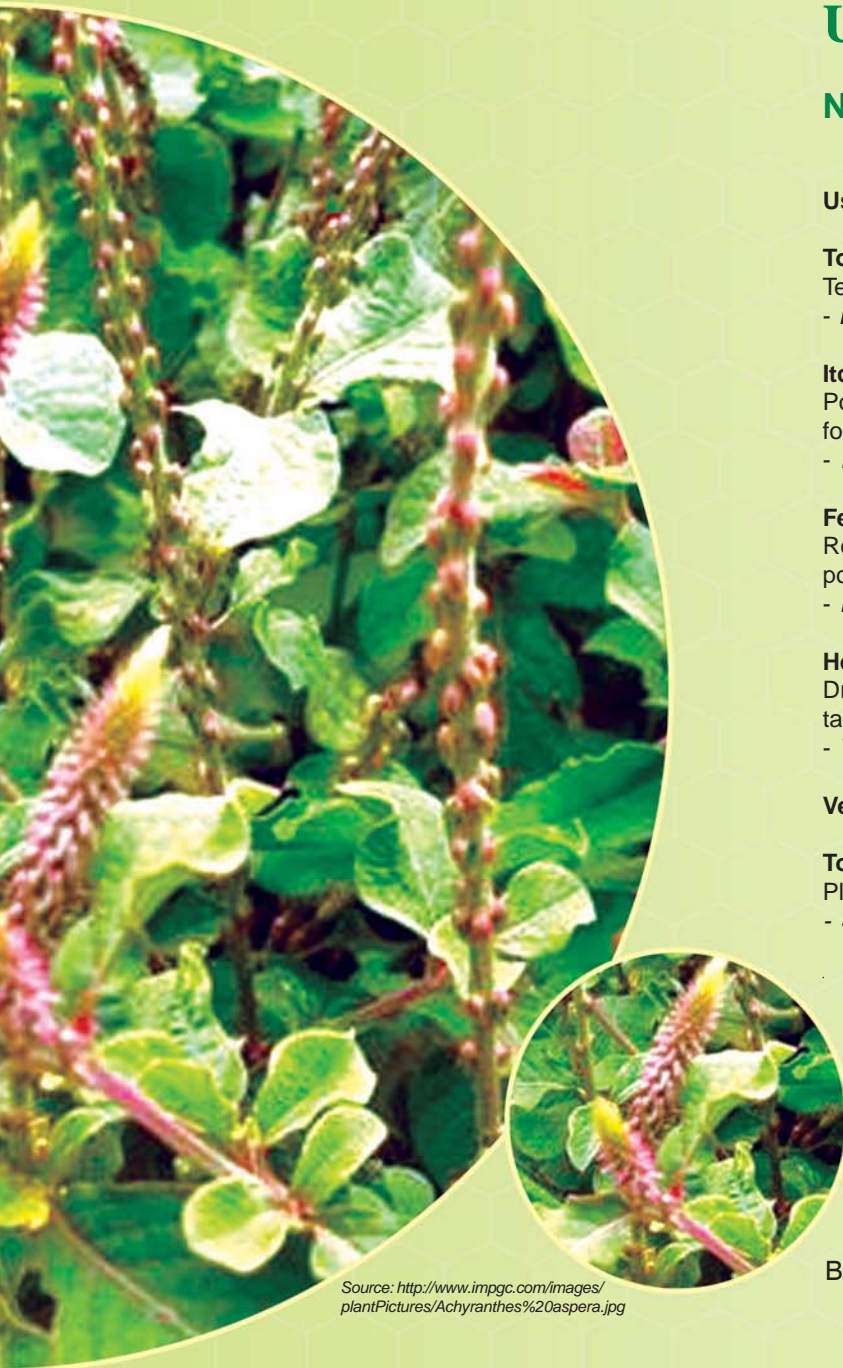
##### Abscess

Root paste applied on the abscess  
- *Ravi Uraav, Hazaribagh, Jharkhand\*\**

### Uses in Classical Codified Literature

Dried aerial parts taken orally in case of diabetes<sup>1</sup>; powder made from the dried plant given orally to treat whooping cough<sup>2</sup>; decoction of the plant used as laxative<sup>3</sup>; decoction of the plant applied externally on boils and pimples<sup>3</sup>.

Product 'Cystone'<sup>4</sup> made from this plant, which inhibits calculogenesis by reducing stone-forming substances like oxalic acid, calcium hydroxyproline and prevents urinary tract infections. Thirty five patents have been found on the medicinal applications of *Achyranthes* like for curing laryngopharyngitis<sup>5</sup>, bronchial asthma<sup>6</sup> etc.



Source: <http://www.impgc.com/images/plantPictures/Achyranthes%20aspera.jpg>



## Uses of *Aegle marmelos* (L.) Corr. (Bel)

### NIF Database

#### Uses from Bihar

##### Ulcer

Leaves of bel (100g), petals of rose (100g) and turmeric (50g) pounded and mixed with honey (50g). Tablets prepared from this mixture given thrice a day for 7-10 days

- Rameshwari Singh, Nawada, Bihar\*

##### Fever

Leaves of bel and chirayata (*Andrographis paniculata* (Burm.f.) Wall.ex Nees) 250g each boiled in a litre of water to obtain a decoction of 250g. 100g decoction given to the patient twice a day for seven days

- Sindhoo Kumari, Gopalganj, Bihar\*

##### Jaundice

Freshly plucked green leaves soaked in a glass of water. This water taken empty stomach 2-3 times a day till cured

- Akhilesh Kumar Yadav, East Champaran, Bihar\*

##### Diabetes

Equal quantity of leaves of bel and fruits of Indian gooseberry taken and juice extracted. A teaspoon of the juice given to combat the disease

- Vinita Kumari, Sitamarhi, Bihar\*

##### Veterinary practice

##### Abdominal pain

Leaves of *Aegle* and *Euphorbia neriifolia* L., flower of *Tagetes erecta* L., mixed with fodder and fed to the animal

- Dipendra Kumar, East Champaran, Bihar\*

#### Uses from other states

##### Eye diseases

Juice extracted from the green leaves and two drops put in the eye

- Kumari Nigar Pravin, Hazaribagh, Jharkhand\*\*

##### Sunstroke

Juice extracted from the fresh leaves taken orally

- Vijaya Bharati, Hazaribagh, Jharkhand\*\*

##### Intestinal worms

Juice extracted from the green leaves taken orally

- Jagjeet Bahadur, Sitapur, Uttar Pradesh\*\*\*

##### Diarrhoea

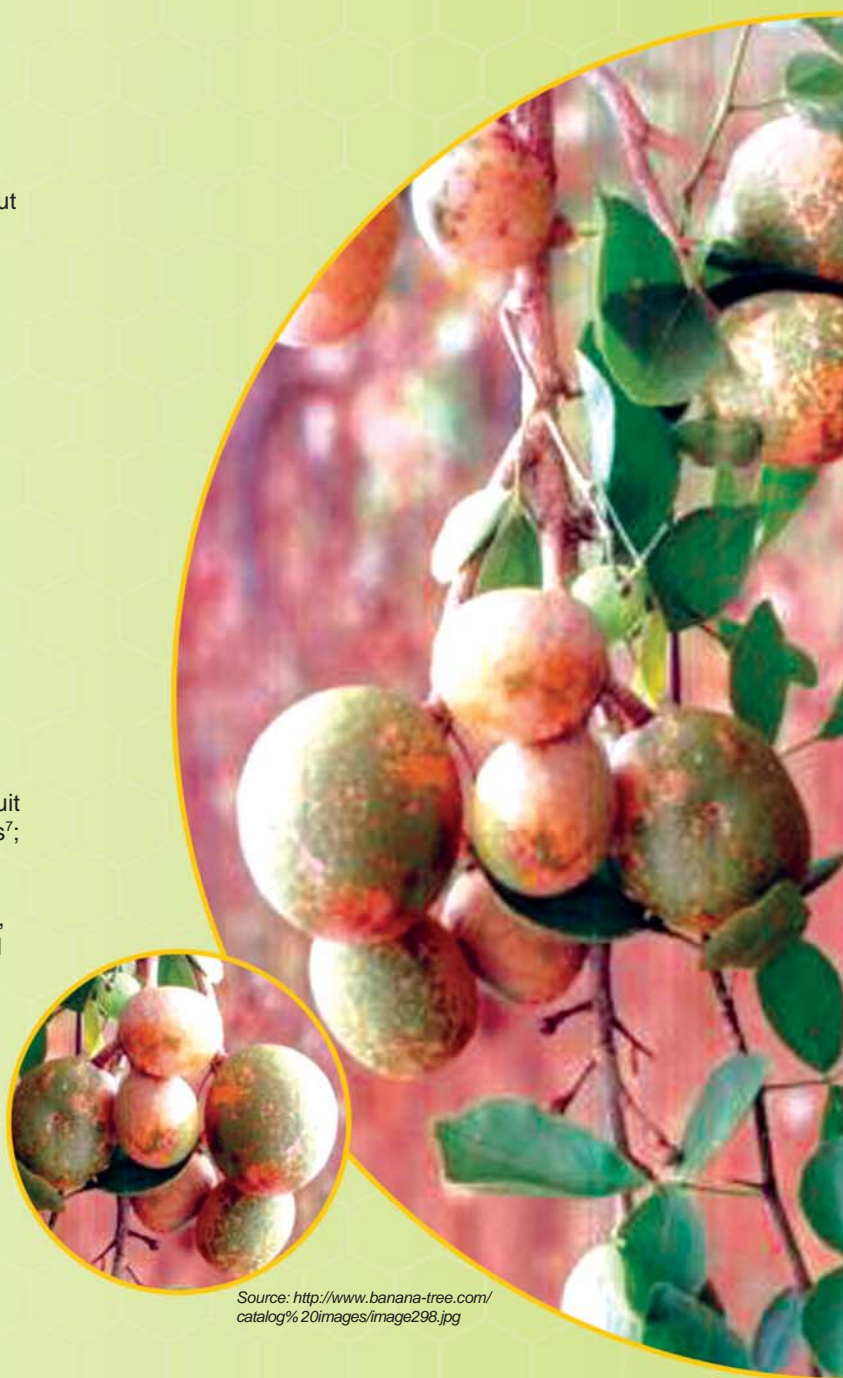
Pulp of the ripen fruit taken

- Jagjeet Bahadur, Sitapur, Uttar Pradesh\*\*\*

### Uses in Classical Codified Literature

Burnt fruit pulp applied on rheumatic arthritis<sup>2</sup>; 10g fruit pulp given before sleep to overcome morning sickness<sup>7</sup>; fruit rind applied externally on head to kill headlice<sup>8</sup>.

'Bael'<sup>4</sup>, prepared from *Aegle* used in diarrhoea, dysentery and GI disorders. It has digestive and carminative properties. 'Lukol's'<sup>4</sup> tonic made from this plant along with other plants improves uterine circulation, and its antimicrobial and astringent actions on the mucous membrane of the genital system control leucorrhoea. 'Bilwa'<sup>9</sup>, a product of *Aegle* used as a medicine to cure a number of diseases. Fifty three patents have been found on the medicinal applications of *Aegle* like for curing diabetes<sup>10</sup>, gastric ulcer<sup>11</sup> etc.



Source: <http://www.banana-tree.com/catalog%20images/image298.jpg>

## Uses of *Boerhaavia diffusa* L. (Punarnava)

### NIF Database

#### Uses from Bihar

##### Jaundice

Juice extracted from the plant given orally for three days consecutively

- Jagnarayan Singh, Gopalganj, Bihar\*

##### Kidney stone

Milk boiled with the roots taken

- Monika Kumari, Sitamarhi, Bihar\*

##### Stomach disorder

Juice extracted from the plant and mixed with equal amount of cow's urine. Two spoons of the mixture taken

- Monika Kumari, Sitamarhi, Bihar\*

#### Uses from other states

##### Headache

Leaves ground into fine paste and applied on the forehead

- Sukumar Nath, North Tripura, Tripura\*\*\*

##### Conjunctivitis

Decoction of the root (50g) given once a day

- Ramnarayan Gameti, Udaipur, Rajasthan\*\*\*\*

##### Cough

Leaves of punarnava (5g), one small onion, a small piece of ginger and a spoonful of cardamom, cooked well and eaten

- Hasina Khan, Margav, Goa\*\*\*

### Uses in Classical Codified Literature

Juice extracted from the leaves given with milk to get relief from cataract<sup>12</sup>; decoction of the plant given orally to purify blood<sup>13</sup>; the plant extract used as diuretic<sup>14</sup>; decoction of the leaves applied externally in case of any skin infections<sup>15</sup>.

'Liver-kidney care'<sup>16</sup> made from this plant that works synergistically on the liver and kidney to heal and prevents infections in both systems. Fourteen patents were found on various medicinal applications of *Boerhaavia* on different ailments like liver disorders<sup>17</sup>, hypertension<sup>18</sup> etc.



Source: SRISTI database



## Uses of *Bombax ceiba* L. (Semal)

### NIF Database

#### Uses from Bihar

##### Pimples

Paste made using thorn and milk applied on the pimples for seven days

- Pravin Kumar Sharma, East Champaran, Bihar\*

##### Wound

Fresh bark ground and the paste applied on the infected part

- Pravin Kumar Sharma, East Champaran, Bihar\*

##### Diarrhoea

Juice from the leaves extracted and a spoonful given to the patient along with sugarcandy for four days

- Neha Kumari, East Champaran, Bihar\*

##### Veterinary practice

##### Bloat

Fruits (100g) mixed with an equal amount of buffalo ghee and fed to animal twice a day

- Ramnath Thakur, East Champaran, Bihar\*

#### Uses from other states

##### Gynaecological disorder

Powdered gum (5g) mixed with water and given to the patient to drink for five days

- Jugeshwar Ram, Hazaribagh, Jharkhand\*\*

##### Constipation

Bark powder (3g), coriander powder and jaggery taken with water

- Devaram, Sirohi, Rajasthan\*\*\*\*

##### Piles

Paste (10g) of roots taken with water for seven days

- Antaryami Pradhan, Angul, Orissa\*\*\*

##### General health

Few flowers soaked in a glass of water overnight and the water taken next morning to give a coolant effect to the body

- Mukta Kumavat, Sikar, Rajasthan\*\*\*\*

### Uses in Classical Codified Literature

Decoction of the bark given orally to combat fever<sup>19</sup>; diabetics should take decoction of the heartwood<sup>20</sup>; to reduce stomachache administer bark juice<sup>21</sup>.

Product 'Acne-n-Pimple Cream'<sup>22</sup> prepared from *Bombax* along with other plants to treat pimples and skin eruptions. 'Evecare'<sup>4</sup>, a multi herb product made from this plant, has a regularizing influence on the menstrual cycle. Eight patents have been found on the medicinal applications of *Bombax* like for skincare<sup>23</sup>, AIDS<sup>24</sup> etc.



Source: [http://www.fine-arts.org/about/images/Bombax\\_ceiba\\_Orange\\_Glow\\_copy.jpg](http://www.fine-arts.org/about/images/Bombax_ceiba_Orange_Glow_copy.jpg)

## Uses of *Carica papaya* L. (Papita)

### NIF Database

#### Uses from Bihar

##### Kidney stone

Pounded roots (6g) mixed with water (50g) and taken orally

- Sandhya Suman, Sitamarhi, Bihar\*

##### Intestinal worms

Fresh latex from a branch taken and administered orally along with a spoon of honey

- Prabhat Kumar Pandey, East Champaran, Bihar\*

##### Ringworm

Milky latex applied topically

- Mukesh Kumar, East Champaran, Bihar\*

#### Veterinary practice

##### Lactogouge

Fruits fed daily to enhance milk production

- Manoj Kumar, Madhubani, Bihar\*

#### Uses from other states

##### Toothache

Cotton dipped in the latex of the stem kept on the aching tooth

- Mangeram Jani, Hissar, Haryana\*\*\*

##### Headache

Seeds and garlic ground into a fine paste and applied on the forehead

- Saiba Barman, Borpeta, Assam\*\*\*

#### Jaundice

Curry made from the raw/unripe fruit taken orally

- Sharda Devi Gangwal, Jaipur, Rajasthan\*\*\*\*

### Uses in Classical Codified Literature

Decoction of the flower used as cardiotoxic<sup>25</sup>; bark powder applied externally on wounds<sup>26</sup>; decoction of the bark given orally to get rid from intestinal worms<sup>27</sup>; beverage of the fruit taken orally to cure diarrhoea<sup>28</sup>.

Natural moisturisers and creams<sup>29</sup> prepared from *Carica* in combination with other plants. Thirty patents were found on its medicinal uses such as an antiallergic<sup>30</sup> and for prevention of cancer<sup>31</sup>.



## Uses of *Datura metel* L. (Dhatura)

### NIF Database

#### Uses from Bihar

##### Cough

Juice from the roasted leaves extracted; two spoonful of the juice mixed with a spoon of ghee and taken  
- Mohani Kumari, Lakhisaray, Bihar\*

##### Bodyache

Equal quantity of leaves of dhatura, bark of neem, leaves of chirayata (*Andrographis paniculata* (Burm.f.) Wall.ex Nees), leaves of tobacco taken and boiled in 1 litre of water till the total solution reduced to 1/4th. Sesame oil mixed in it and applied on the affected part  
- Lalbabu Sahnii, Madhubani, Bihar\*

##### Arthritis

Leaves of dhatura, *Anthocephalus chinensis* (Lamk.) A.Rich.ex.Walp. (ten each) and ginger (100g) ground together with sugar (50g), and the paste applied on the aching body part  
- Ramanand Shah, East Champaran, Bihar\*

##### Eczema

A fruit roasted and ground to make fine powder, sesame oil (250g) and milk added to make a paste. The paste applied on the infected part  
- Vikas Kumar, Nawada, Bihar\*

##### Veterinary practice

##### Diarrhoea

Roasted fruits given with fodder  
- Jawaharlal Prasad, East Champaran, Bihar\*

#### Uses from other states

##### Alopecia

Juice extracted from the leaves, smeared on head, and left for 30 minutes  
- Bansi Ghosal, West Midnapur, West Bengal\*\*\*

##### Headache

Seeds chewed and spat for instant relief  
- Ganesh Das, Sirohi, Rajasthan\*\*\*\*

##### Asthma

A seed soaked in water taken orally initially, gradually a seed increased every week for five weeks  
- Rani Farhat, Hazaribagh, Jharkhand\*\*

##### Diarrhoea

Seeds ground in water, filtered and administered orally  
- Ajit Singh Rathod, Nagor, Rajasthan\*\*\*\*

### Uses in Classical Codified Literature

One fruit, filled with 10g *Piper longum* L., burned and 5g of ash given with honey, morning and evening for 5 days to cure malaria<sup>32</sup>; the thumb kept inserted within the fruit to treat finger felon<sup>33</sup>; root paste applied externally on poisonous bites<sup>34</sup>. 'Muscles & joint rub'<sup>4</sup>, a highly effective medicine for backache, muscular sprain and joint pain made from the plant.



Source: <http://www.driftwoodgardens.com/images/daturametel.jpg>

## Uses of *Eclipta alba* (L.) Hassk. (Bhangra)

### NIF Database

#### Uses from Bihar

##### Greying of hair

Handful of leaves ground and mustard oil (50g) mixed, and applied on head

- *Supriya Kumari, Lakhisaray, Bihar\**

##### Earache

1-2 drops of the juice extracted from fresh leaves put in the ear

- *Dipak Kumar Tiwari, Gopalganj, Bihar\**

##### Jaundice

Juice extracted from the plant and three spoonful given orally along with sugar candy (50g) twice a day till cured

- *Raghuvansh Prasad Singh, Munger, Bihar\**

#### Uses from other states

##### Mouth sores

Fresh leaves chewed for immediate relief

- *Sanjay Singh Uplana, Nagda, Madhya Pradesh\*\*\**

##### Cough

Juice extracted from the pounded leaves and honey added. 1-2 drops of this given 3 times a day

- *Sanjay Singh Uplana, Nagda, Madhya Pradesh\*\*\**

##### Bodyache

Juice extracted from the leaves and applied

- *Vijay Gupta, Mujjafarpur, Uttar Pradesh\*\*\**

##### Cuts

Shoot paste applied on cuts

- *Rani B. Bhagat, Pune, Maharashtra\*\*\**

### Uses in Classical Codified Literature

Powder of dried aerial parts used for asthma<sup>35</sup>; buds ground in sesame oil and applied to the forehead to get rid from headache<sup>36</sup>; plant applied on ringworm lesions<sup>37</sup>.

'Bhringraja'<sup>38</sup> used as a liver tonic and for various chronic skin diseases. 'Eclipta tincture'<sup>39</sup>, a highly effective medicine of liver ailments such as cirrhosis and infective hepatitis and other conditions involving hepatic enlargement. Thirteen patents have been found on its medicinal applications mainly for liver disorders<sup>40</sup> and in hair care<sup>41</sup>.



Source: [http://www.missouriplants.com/Whiteopp/Eclipta\\_alba\\_plant.jpg](http://www.missouriplants.com/Whiteopp/Eclipta_alba_plant.jpg)



## Uses of *Holarrhena antidysenterica* Wall. (Indrajo)

### NIF Database

#### Uses from Bihar

##### Fever

Leaves (5g) along with those of *Picrorhiza kurroa* Royale ex. Benth. (5g) boiled in 100ml of water till the decoction remained 10ml. This taken orally till cured  
- Hariom Kumar, East Champaran, Bihar\*

##### Malaria

Equal amount of leaves of indrajo and *Cyperus rotundus* L. ground into fine powder. One spoonful taken orally to combat the disease  
- Chandan Kumar, East Champaran, Bihar\*

##### Dysentery

Paste prepared from the bark. 10g of the paste given along with a spoonful of honey  
- Kundan Kumar, East Champaran, Bihar\*

#### Uses from other states

##### Kidney stone

Juicy paste of the bark mixed with soured ghee and taken  
- Robert L. Hnamte, Aizawl, Mizoram\*\*\*

##### Bodyache

Bark ground in water; some quantity taken orally and rest applied on the body  
- Devaram, Sirohi, Rajasthan\*\*\*\*

##### Anemia

Paste of bark mixed with salt and taken orally  
- Robert L. Hnamte, Aizawl, Mizoram\*\*\*

##### Skin disease

The dried bark powdered, mixed with ghee and honey and taken orally  
- Robert L. Hnamte, Aizawl, Mizoram\*\*\*

### Uses in Classical Codified Literature

Dried bark powder given orally to cure stomachache<sup>42</sup>; seeds ground into a powder, a dose of 5-10g of the powder given with water as an antidote and a paste of the seeds also applied locally to relieve pain and swelling on poisonous bites<sup>43</sup>.

'Diarex vet'<sup>4</sup> used for diarrhoea in cattle. 'Kutajarista and Kutajavaleha'<sup>44</sup> are the most popular preparations used in diarrhoea, dysentery, colitis and bleeding problems.

Thirteen patents have been found on its medicinal application mainly for gastrointestinal disorders<sup>45</sup>.



Source: <http://www.motherherbs.com/pcat-gifs/products-small/kudsappalai.jpeg>

## Uses of *Leucas aspera* Spr. (Guma)

### NIF Database

#### Uses from Bihar

##### Fever

Equal amount of flower of guma; leaves of *Azadirachta indica* A. Juss., *Ocimum sanctum* L., roots of *Cyperus rotundus* L., *Solanum xanthocarpum* Schrad. & Wendl. and black pepper seeds pounded and juice extracted, two spoonful taken orally  
- Nushrat Jahan, Gopalganj, Bihar\*

##### Stomachache

Curry made from the plant taken  
- Usha Rani, Darbhanga, Bihar\*

##### Eczema

Plant burnt, some coconut oil mixed with the ash. The paste applied on the infected body part  
- Gokul Singh, East Champaran, Bihar\*

##### Piles

Equal amount of roots of guma and black pepper ground, a spoonful of this given twice a day till cured  
- Umesh Mishra, East Champaran, Bihar\*

#### Veterinary practice

##### Anorexia

Juice extracted from the leaves and flowers, 3-5 spoonful given orally  
- Chandrashekhar Prasad Kushwaha, East Champaran, Bihar\*

#### Uses from other states

##### Migraine

Juice extracted from freshly plucked leaves and 2 drops of the same put in the nose  
- Ramji Chink Badaik, Gumla, Jharkhand\*\*

##### Sinusitis

Juice of leaves put in the nose  
- Nayan Kalita, Kamrup, Assam\*\*\*

##### Jaundice

Juice from pounded leaves extracted and little quantity of goat urine mixed; this is given twice a day for 4 days  
- Shalini Shrivastava, Balia, Uttar Pradesh\*\*\*

### Uses in Classical Codified Literature

Dried plant powder applied on scabies<sup>46</sup>; the plant used as an anthelmintic<sup>47</sup>; a handful flower (5g) roasted in ghee given once a day to cure cough<sup>37</sup>.

'Herbal Steam Bath'<sup>48</sup> is useful to get rid from various primary health and hygiene problems like cleaning and removing bad odour of the body, stoping burning sensation in eyes, watery eyes, headache, nausea, migraine etc.



Source: [http://pics.davesgarden.com/pics/Dinu\\_1020275877\\_818.jpg](http://pics.davesgarden.com/pics/Dinu_1020275877_818.jpg)



## Uses of *Nyctanthes arbor-tristis* L. (Harshingar)

### NIF Database

#### Uses from Bihar

##### Cough/cold

Paste prepared using three leaves and black pepper and taken orally with water  
- Ashok Kumar Yadav, East Champaran, Bihar\*

##### Diabetes

Decoction of the leaves taken orally for 40 days  
- Shama Pravin, Gopalganj, Bihar\*

##### Wound

Topical application of leaves' paste gives relief  
- Ranjeet Kumar, Shivhar, Bihar\*

##### Piles

Seed paste taken orally with water  
- Lavli Kumari, Gopalganj, Bihar\*

#### Uses from other states

##### Intermittent fever

Two leaves of harshingar, neem, three black pepper and four leaves of tulsi ground in half litre of water and boiled till half a cup of residue remained. This is cooled and given orally  
- Arjun Singh, Bharatpur, Rajasthan\*\*\*\*

##### Intestinal worms

Oral intake of leaf juice kills the worms  
- Rani B. Bhagat, Pune, Maharashtra\*\*\*

##### Pain

Fresh leaf paste applied on the fractured part to alleviate pain  
- Ramsharan Dhruv, Dhamtari, Chhattisgarh\*\*\*

### Uses in Classical Codified Literature

Dried fruits used orally to get relief from cough<sup>49</sup>; decoction of dried flower given with jaggery as an anti-fertility agent in females<sup>50</sup>; leaf juice applied externally on ringworm and other skin diseases<sup>50</sup>.

'Lupin'<sup>51</sup>, a medicine used for pain and inflammation associated with musculoskeletal and joint disorders. Six patents have been found on its medicinal uses such as Leishmaniasis<sup>52</sup> and also for its natural property as in dye<sup>53</sup>.



Source: <http://prathom.swu.ac.th/panmai/pic/7-10110-002-110.JPG>

## Uses of *Solanum nigrum* L. (Makoi)

### NIF Database

#### Uses from Bihar

##### Cough

Juice extracted from the roots taken orally  
- Priyanka Kumari, Gopalganj, Bihar\*

##### Jaundice

Juice extracted from the roots administered  
- Suman Kumari, Gopalganj, Bihar\*

#### Uses from other states

##### Stomachache

Leaves of makoi (200g) fried in mustard oil (20ml), salt added and administered  
- Sukhai Mali, Faridabad, Haryana\*\*\*

##### Nasal bleeding

Dry fruit (25g) boiled in mustard oil (100g), oil filtered and applied on the forehead  
- Sahim Ansari, Lohardaga, Jharkhand\*\*

##### Mouth ulcer

Leaves chewed  
- Shripal Singh, Bulandshahar, Uttar Pradesh\*\*\*

### Uses in Classical Codified Literature

Powdered fruit given orally to reduce fever<sup>54</sup>; juice extracted from the whole plant applied externally on the burnt part<sup>55</sup>; poultice of the plant placed on the aching joint<sup>56</sup>; fruits ground and taken orally to cure diarrhoea<sup>54</sup>.

'Herbolax'<sup>4</sup> made from *Solanum* along with other plants used as gentle laxative, for constipation and electrolyte balance. Ninety patents were found for its medicinal uses mainly on hepatitis<sup>57, 58</sup>.



Source: [http://thebegavalley.org.au/uploads/tx\\_steverplantgallery/Solanum\\_nigrum\\_02\\_black%20nightshade.jpg](http://thebegavalley.org.au/uploads/tx_steverplantgallery/Solanum_nigrum_02_black%20nightshade.jpg)



## Uses of *Vitex negundo* L. (Nirgundi)

### NIF Database

#### Uses from Bihar

##### Stomachache

Powdered leaves of *Vitex*, *Cocculus hirsutus* (L.) Diels. and *Bombax ceiba* L. mixed in equal ratio and given  
- Yusuf Khan, East Champaran, Bihar\*

##### Muscular pain

Leaves smeared with mustard oil, lukewarm and applied on the affected part  
- Savita Kumari, Gopalganj, Bihar\*

##### Veterinary practice

##### Wound

Leaves paste applied topically on wound  
- Nageshwari Devi, Hazaribagh, Bihar\*

#### Uses from other states

##### Ear pain

Leaves boiled in mustard oil, oil then filtered and used as ear drop  
- Bhagat Ram, Kangra, Himachal Pradesh\*\*\*

##### Ulcer

Half cup juice extracted from the leaves taken orally  
- P D Walikar, Bagalakat, Karnataka\*\*\*

##### Rheumatism

Lukewarm leaves applied on aching joints  
- Naganath Durga Chogule, Sholapur, Maharashtra\*\*\*

##### Skin disease

Small pieces of plant mixed with cow's urine applied on the affected skin  
- K. Lakshmana Shetty, South Karana, Karnataka\*\*\*

### Uses in Classical Codified Literature

Leaves smoke inhaled to get rid from cough<sup>2</sup>; in case of diarrhoea flowers used<sup>59</sup>; extract of the plant taken as a diuretic<sup>2</sup>.

'Muscle & joint rub'<sup>4</sup>, a highly effective medicine for backache, muscular sprain and joint pain. 'Dental Cream'<sup>4</sup> is a specially formulated toothpaste that tightens and reduces swelling of gums, stops gum bleeding, prevents toothache, decay and controls bad breath. 'Atharva Nirgundi Siddha Tail'<sup>60</sup> useful in arthritis, joint pain, relieves oedema. Thirty five patents were found on the medicinal application like rheumatic arthritis<sup>61</sup>.



Source: <http://www.dkimages.com/discover/previews/961/90011412.JPG>

## Herbal Formulations for Healthy Crops~

### SRISTI SHASTRA

*Arkhiben Vankar, Ranabhai Kamaliya, Banidan Gadhvi, Gemal Rana, Rajnikant Patel, Ahmadbhai Kadivala, Gujarat.* This formulation flourishes the growth of the plant by increasing flowering as well as fruiting besides overall vegetative growth, without being harmful to nature as well as human being. It also controls sucking pests like white fly, heliothis, aphid etc.

### SRISTI KRUSHAK

*Popatbhai Rupabhai Jambucha, Gujarat*

This formulation is an excellent remedy for leaf curl disease, which not only controls the disease but simultaneously increases the vigor of the plants by increasing its overall growth.

### SRISTI SURAKSHA

*Community Knowledge, Gujarat*

This herbal formulation is a very efficient treatment for termite and acts as a vitaliser to the affected crops. To control termites the herbal formulation is mixed with sand and is spread in the field, some times it is released in field with the flow of irrigation water. In some cases it is also drenched in the affected part of the plant as well as sprayed on the vegetation to repel termites.

### SRISTI PRAYAS

*Community Knowledge, Gujarat*

It is a highly effective formulation of herbal growth promoter, which also stops shedding of flowers as well as increases the overall growth of the plant. This formulation strengthens the plants internally and enables them to withstand in extreme weather conditions. Constant use of this formulation not only increases the yield but also reduces the toxic contents in our daily diet.

### SRISTI SHAKTI

*Community Knowledge, Gujarat*

A herbal growth promoter, which helps in production of excellent quality organic food grain. Constant use of this formulation not only increases the yield but also reduces the toxic contamination in our food and environment.

~These formulations are based on traditional knowledge of farmers and developed by Sadbhav-SRISTI Sanshodhan Laboratory. This product is licensed to Matrix Biosciences Pvt. Ltd, Hyderabad, Andhra Pradesh. The benefits are shared with the knowledge providers, communities, nature, those who add value and other stakeholders in the knowledge and value chain.





## Herbal Formulations for Livestocks and Poultry~



### Coccicure

*Sudakarbhai K. Gaudi & Jeevalbhai M. Gaudi, Dang, Gujarat*

It is a unique herbal medication for prevention and curing of Coccidiosis (*Eimeria* sp infections) in Poultry. The primary function of the medication is to reduce the oocytes maturation and affects the life cycle of various *Eimeria* species.



### Poulmax

*Community knowledge, Valsad, Dang, Gujarat*

It is a unique herbal medication for promoting poultry immunity. It cures symptoms like greenish diarrhoea, conjunctivitis, nasal sputum, drop in egg production and respiratory distress in poultry. About 30g/100 birds for 0-4 weeks & 60g/100 birds for 4-8 weeks may be administered for seven days in stress or for three days before & three days after expected stress.

### Mastiherb

*Ukhardiyabhai S. Raot, Dang, Gujarat*

Mastiherb is a unique intramammary herbal medication for curing mastitis in animals. Clinical trials indicated efficacy of the medication over subclinical mastitis; clinical mastitis & chronic mastitis. It was also validated in case of mastitis due to *Staphylococcus aureus*. The dose rate was found to be single intra mammary infusion for minimum 3 days after adequate standardization.



~These formulations are based on traditional knowledge of farmers and developed by Sadbhav-SRISTI Sanshodhan Laboratory. This product is licensed to Matrix Biosciences Pvt. Ltd, Hyderabad, Andhra Pradesh. The benefits are shared with the knowledge providers, communities, nature, those who add value and other stakeholders in the knowledge and value chain.

