

# Ethnobotanical studies of some medicinally important plant of Karauli district of Rajasthan

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## Abstract

Ethnobotanical studies on utilization of plants by the rural folks including tribals has gained much importance in the recent past all over the world. The global interest in the study and practices of crude drug therefore, considerably increased during the last two decades because of growing awareness about the toxicity and adverse effects of synthetic allopathic drugs. Ethnobotanical studies of some medicinally important plant of Karauli district of Rajasthan: has been carried out in Karauli district of Rajasthan as literature survey revealed that there is no proper recording of ethnobotanical information. Ethnobotanical studies of some medicinally important plant of Karauli district of Rajasthan: has been carried out in Karauli district of Rajasthan as literature survey revealed that there is no proper recording of ethnobotanical information.

**Keywords** – Ethnobotany, Medicinal plant, Karauli, Rajasthan

## Introduction

Focus of ethnobotany is how plants have been or are being used, managed and perceived in human societies and includes plants used for-food, medicine, cosmetics, dyeing textiles, for building tools, currency, society life and music. Jones (1941) defined it as the study of the inter relations of primitive man and plants. Jain (2001) laid down that ethnobotany deals with the study of total natural and traditional inter-relationships between man and plants and his domestic animals (Tamuli and Saikia 2004). Ethnobotanical studies on utilization of plants by the rural folks including tribals has gained much importance in the recent past all over the world. (Sebstain, 1984; Jain, 1965; Dobriyal *et al.*, 1996).

District Karauli has got on abundance of natural greenery and scenario beauty and traversed by Karauli ranges of Aravali in the area. The general topography of the area is partly flat having plains partly sandy rocky, while remaining regions are occupied by undulating slopes and hills of Aravali Mountains (Billore, 1984). The famous Pachna dam in this region.

The area is situated in the Eastern part of Rajasthan state and adjoining with neighbouring state Madhya Pradesh. The total area of the district is near about 5070 Sq. Kms. And approximately its covers 1.5 per cent of total Rajasthan.

Tribals are the oldest ethnological groups which live away from the civilized world, preferably in forest areas (Chak and Agrawal, (2008); Chandra, (1978) and Kamboj, (2002). The tribes commonly present in Karauli district are Meena, Gadia Lohar, Banjara, Kanjar, Bhat, Sansi, Nut, Bauri, Bagri are also present Karauli district.

In view of significant data of including their population and are a occupied and their dependence in the plant an almost all setter of life. The proposed plan of work has been designed in order to study ethnobotanical aspects of some medicinally important plants of Karauli district of Rajasthan.

### **Material and Methods**

The present study has been carried out by performing field visit through advance planning, arrangement and preparation, several attempt were being made to interview men and women of different castes, age, and origin in order to collect valuable information. We have definite planned about particular place which is hot spot of district Karauli. A field survey kit used for collecting the essential material which containing some required tools and equipments as Newspaper, plane paper, polythene carry bag, digger, knife forceps, telescope, camera, video recorder, microscope, note book and some gift items etc. Photography, videography were also arranged for the record identifications and documentation of collected data, interviews were arranged with villagers were recorded with the help of tape recorders.

## Observations and Results

Results are being summarised here in tabulation form.

S. No.	Name of Plants	Local Name	Family	Place of collection	Parts used	Ailment	Mode of administration
1.	<i>Acacia catechu</i>	Katthaic/Khair	Mimosaceae	Hills of Masalpur	Seeds	Immunization	Seeds with water given orally for seven days
					Leaves	U.T.I. (Urinary Tract infection)	Leaves mixed with sugar taken orally
					Leaves	To clear uterus after child birth	As vegetable
					Stem bark	Heal pain	100 gm <i>Piper longum</i> , 100 gm bark of this plant mixed with Kacchi Ghani and roasted it in cow urine and apply locally on heal for 7 days.
2.	<i>Abrus precatorius</i>	Ratti, Safed gunja	Fabaceae	Near at Kachroli village	Leaves	Heart inflammation	Extract orally
					Roots	Sexual vigor	Dried root powder orally
					Root	Leucorrhoea	Decoction is taken orally twice a day
					Seeds	Abortion or birth control	Powder taken orally with water
					Seeds	Leprosy, pimples and Acne, ringworm	Paste of seed mixed with <i>Sesamum</i> , <i>Canabis</i> and applied locally
					Seeds	Constipation	2-3 seeds orally
					Seeds	Increase, scanty mens flow	Powder taken orally after menstruation.
					Seeds	Pregnancy testing	One seed taken orally with water case of non conceiving, cycle of mens will be restarted.
					Leaves	Wounds	Paste locally.
					Seeds	Lack of Oestrus (heating)	Crushed seeds are soaked in water overnight and given orally in the morning.
3.	<i>Abutilon indicum</i>	Khanghi, Khateti, Tala Kunji, Atibala	Malvaceae	Near Shekhpura	Leaves	Diabetes	Powder orally with cow milk
					Leaves	Syphilis	Paste Locally
					Leaves	Stone in urinary bladder	Leaf juice taken orally
					Whole Plant	Gonorrhoea	Decoction taken orally

S. No.	Name of Plants	Local Name	Family	Place of collection	Parts used	Ailment	Mode of administration
					Whole plant	Sexual potential & sperm scarcity	Powder mixed with sugar taken orally
					Whole plant	Leucorrhoea	Shadow dried five organs mixed with sugar and cow milk and taken orally.
					Leaves	Prolapse of uterus	Leaves crushed with black sugar and given orally.
					Whole plant	Dilute semen & weak sperm	Shadow dried powder mixed with sugar and cow milk, orally.
4.	<i>Achryranthus aspera</i>	Oonga Latjeera	Amaranthaceae	Found in waste land or fields fencing	Roots	For easily delivery (child birth)	Press and put under the legs or head locally (bind with thigh of lady)
					Roots	Chronic headache	Paste of roots with jaggery and given orally in the morning for four days.
					Seeds	Cough	Powder of seeds mixed with black sugar and chewed orally thrice in a day.
					Whole plant	Cough and common cold	Decoction given orally
					Whole plant	Check excessive bleeding during delivery	Extract taken orally
					Roots	Bleeding from cuts	Paste of roots apply locally
					Roots	Scorpion sting	Paste locally
					Roots	Pneumonia	Decoction with Jaggery, orally given for thrice day
					Roots	Typhoid	Decoction orally
					Roots	Gangrene	Decoction orally
					Roots	Rheumatism	Orally and locally
					Fresh Roots	Fever (bone fever) mild fever	Decoction given orally twice a daily after taken it patient should be covered with blanket.
					Leaves	Rickets	Paste mixed with Jaggery and applied on the head.
					Seeds	Dysentery	Paste, orally with cow milk
					Seeds	Weakness	Boiled in milk given orally

S. No.	Name of Plants	Local Name	Family	Place of collection	Parts used	Ailment	Mode of administration
					Roots	Cramps	Crushed roots are given twice a day.
5.	<i>Adhatoda zeylamica</i>	Basyoda Adusa	Acanthaceae	Wild	Leaves	Asthma	Decoction give orally
					Leaves	Rheumatism	Extract with Jaggery, orally given to patient
					Seeds	Diarrhoea	Powder taken orally with milk
					Whole plant	Cough	Decoction given orally
					Leaves	Respiratory Tract infection (R.T.I.)	Decoction orally for 15 days
6.	<i>Alhode, camilorum i</i>	Jawasa Jawasi	Papilionaceae	Commonly grown in moist place	Leaves	Asthma	Leaves smoked in sulphi
					Whole plant	Chronic typhoid	Dried powder mixed with cow or Buffalo milk given orally in morning for three days.
					Whole plant	Currently appeared typhoids	Dried powder or paste of plant and 2 piece of <i>Piper longum</i> makes decoction in one cup water given orally in morning before meal.
7.	<i>Digera muricata</i>	Lehsua	Amaranthaceae	weeds	Seeds	Snake bite	200 gm seeds mixed with 500gm ghee of cow make 100-100gm dose and given orally twice a day for 3 days.
8.	<i>Annona Squamosa</i>	Sitaphal	Annonaceae	Commonly found on hills of Gadmora	Leaves	Boils, ulcers and malignant tumors	Poultice with common salt applied externally
					Fruit	Diarrhea and Dysentery	Pulp of unripe fruit given orally
					Unripe fruits	For conceiving and in fertility	Powder of dried unripe fruits eaten orally with 20 ml cow milk after M.C. only 1 days
					Leaves	Wounds	Paste of fresh leaves is applied for 3 days.
9.	<i>Argemon mexicana</i>	Satyanasi Peeli Cateli	Papaveraceae	Common weed	Flower	Whooping cough and cold cough	Crushed flower taken orally
					Flower	Syphilis	Crushed and taken orally
					Fruits	Kill tooth germ	Fumes in haled
					Leaves	Irritation	Rubbed raw on sites of irritation apply.



S. No.	Name of Plants	Local Name	Family	Place of collection	Parts used	Ailment	Mode of administration
					Seeds	Scabies	Seeds mixed with sulphur and sesame oil and applied locally.
					Oil	Eye inflammation	Juice dropped directly on open eyes.
					Latex	Constipation	Few drops of oil with sugar taken orally.
					Latex	Ringworm	Apply locally
					Latex	Leucoderma	Yellow juice locally
					Latex	Scabies	Apply locally
					Roots	Conjunctivitis	Extract dropped in eye lids.
					Whole plant	Protrusion	Paste of root with cow milk orally (100gm paste of for animal and 10gm to women).
					Whole plant	Leucorrhoea	Whole plant paste mixed with milk taken orally three time for three days.
					Roots	Protrusion of uterus	100 gm fresh, root paste given orally with milk thrice in a day.
10.	<i>Asparagus racemosus</i>	Satawari	Liliaceae	Grown on wild	Fruits	Galactagogue	Crushed fruits are given orally for seven days.
					Leaves	Paralysis	Taken orally
					Stem	Chronic Dysentery	Extract orally
					Roots	Sexual potential	Powder taken orally with milk
					Roots	Galactogouage	Juice orally
					Roots	Leucorrhoea	Powder taken orally with ghee
					Roots	Weakness	Roots powder with <i>Withania</i> powder taken orally.
					Roots	Epistaxis	Juice dropped in nose
					Roots	Dysentery and Diarrhoea	Powder taken with water orally
					Pods	Sprain socks bone ache	Dried powder of pods. 2 gm with 250 ml milk take orally in morning
					Pods	Sexual weakness	Dried powder mixed with ginger, Gorakh mundi taken with ghee and wheat flour daily in breakfast

S. No.	Name of Plants	Local Name	Family	Place of collection	Parts used	Ailment	Mode of administration
					Roots	Gout, Rheumatism	Taken orally as tea
11.	<i>Bacopa monnieri</i>	Brahmi Jal Bunti	Scrophulariaceae	Moist place	Flower and leaves	General debility	Decoction mixed with honey and milk taken orally
					Leaves	Abdominal pain	Roasted half and tied locally
					Leaves	Rheumatism	Decoction taken orally
					Whole plant	Urinary inflammation	Crushed, taken orally
					Whole plant	Mentally weakness	Decoction orally
12.	<i>Lepidagethis trivernis</i>	Siyar-Baithna	Acanthaceae	Occurs on hilly area	Leaves	Glanudular swelling	Paste applied locally
					Leaves	Fever	Juice mixed with honey, taken orally
					Whole plant	Dropsy	Decoction to wash the body (bathing)
					Flower	Painful menses	Taken orally
					Bark	Cough	Decoction mixed with honey or Jaggery, given orally
					Roots	Embedded thorn in body parts	Paste mixed with black sugar and prepare 3 tablet about 2 gm and taken orally
					Whole plant	Toothache	Decoction used to gargle daily
					Whole plant	Ear pain	Decoction used to gargle
					Whole plant	For tooth strengthening	Decoction used for gargles
13.	<i>Boerhaavia diffusa</i>	Punernawa	Nyctaginaceae	In plane lands of study area	Leaves	Kidney stone	Taken as vegetable
					Roots	Jaundice	Paste taken orally
					Roots	Kidney stone	Powder with water taken orally
					Roots	Fever	Extract with honey taken orally
					Whole Plant	Sexual vigour	Decoction with other plant like solanum, eclipta, chandan orally.
					Whole Plant	Loss of appetite	Decoction with chandan orally as a appetizer
					Roots	Eye itching	Paste make with milk and dropped in eye
					Roots	Water/tear secretion in eye always	Dragged with water and apply locally

S. No.	Name of Plants	Local Name	Family	Place of collection	Parts used	Ailment	Mode of administration
					Roots	Flower of eye (white spot in eye)	Dragged in ghee apply locally
					Roots	Eye ailment (Timir)	Dragged in Tilla (sesame) apply locally
					Roots	Night Blindness	Dragged in "Kanji" and apply locally (Rye water + vinco mungo = Kanji)
					Roots	Teething problem in infants	Infusion in neck with blue gloths on sature days
					Roots	Jaundice	Smell of roots inhaled for 8 days freshly
					Roots	Jaundice	Infusion in neck in red coloured thread
					Roots	Mild/moderate fever	2 gm powder mixed with water taken orally for three days
14.	<i>Butea monosperma</i>	Dhank, Chheela, Keshula, Dhank	Fabaceae	Patonda ki chhahri Near Shrimaha veer ji	Fruits	Spains and fractures	Roasted fruits tied locally
					Gum	Birth control	Orally with water for a week
					Gum	Bronchitis	Roasted and taken orally
					Gum	Chronic dysentery	10 gm gum with mangifera and moringa gum taken orally
					Flower	Ringworm	Paste apply locally
					Flower	Leprosy	Paste apply externally
					Flower	Blood impurity	Eaten orally with water
					Flower	Mild fever	Powder flower mixed with in milk and Mishree (sugar) drink for three days
					Seeds	Intestinal helminthes	1-2 seeds taken orally
					Stem bark	Protrusion of uterus	Decoction taken orally
					Stem bark	Dental ailment	Decoction used to gargle
					Leaves	Phoda, Abscesses	Roasted leaves tied on organ
					Seeds	Birth control	3-5 seed eaten orally by women in M.C. period for 5 day
15.	<i>Cassia tora accidentalis</i>	Panwar Chakramard	Caesalpiaceae	Common waste land plant	Leaves	Constipation	Juice taken orally
					Leaves	Ringworm	Extract locally
					Seeds	Skin diseases	Powder taken orally



S. No.	Name of Plants	Local Name	Family	Place of collection	Parts used	Ailment	Mode of administration
					Seeds	Excema	Paste mixed with cow urine applied locally
					Seeds	Ringworm	Paste with water applied locally
					Seeds	Night blindness	Decoction orally
					Leaf	Jaundice	Used as vegetable for 7 days
					Seeds	Excema	Powder of seed mixed with Lemon juice and apply locally and taken orally
					Seeds	Ringworm	Powder mixed with water, curd and lemon juice and apply locally
					Leaves	Night blindness	Eaten directly or as vegetable for 10 days
					Leaves	Antifungal and Bacteria	Extract applied locally
16.	<i>Cholorom hytum tuberosum</i>	Safed musali		Mountains of Gadmore	Roots	Leucorrhoea	50 gm musali mixed with 50 gm illiachi 50 gm vanselochan 50 gm Bal ki mishri and given orally
					Root	Infertility, Erectile dysfunction, Impotency, Weakness	Root powder mixed with ilachi, Ashwagandha & dikhna gokhru taken orally with cow milk daily for a week.
17.	<i>Citrullus colocynthis</i>	Anarni, Indrayan, Tumbi	Cucurbitaceae	Commonly grown in sandy soil	Fruits	Gastritis	Powder taken orally
					Fruits	Abdominal pain	Orally with common salt
					Fruits	Constipation	Mixed with Triphala and taken orally with milk or water
					Roots	Gastritis	Mixed with black salt and zinger and Haritki (Terminalia chebula) taken orally
					Seeds	Abortifaciant	Taken orally
					Fruits	Crack heel	Rubbed by legs and hand the air tight for 3 days in air tight ripen fruits
18.	<i>Clitoria ternatea</i>	Gowkarni Aparajita	Fabaceae	Wild	Root	Dog bite	Powder with cow milk orally
					Seeds	Syphilis	Paste locally
					Leaves and seeds	Mental weakness	Decoction on orally
					Whole plant	Kak Bandhya (infertility appear after 1st delivery)	10 gm paste with 2 gm Nagkeshar and given orally with honey for 10 day in morning for 10 day from means starting day.

S. No.	Name of Plants	Local Name	Family	Place of collection	Parts used	Ailment	Mode of administration
19.	<i>Commiphora wightii</i>	Guggal	Burseraceae	Forest of Mandrayal	Bark	Bronchitis	Powder orally with milk
					Gum	Asthma	Powder orally with milk
					Gum	Pyrrhoea	Lotion in water gargle purpose
					Oleo resin gum,	Piles	Locally
					Twigs	Pyrrhoea	Tooth brush for brushing
20.	<i>Convolvulus microphyllous</i>	Shankpushpi	<i>Convolvuleceae</i>	Waste land Shri Mahaveerji	Whole plant	Infertility in women	Shunkpushpi (aerial part), Aperajita, Nagkeshar & neel 1 gm taken each content total 5 gm weight mixed with water and taken orally with cow milks after menstrual cycle period stopping (4 <sup>th</sup> day to 21 <sup>th</sup> day respectively
					Leaves	As brain tonic	Extract mixed with sugar and taken orally daily, in morning in fasting
					Whole plant	Inflammation	Juice taken orally mixed with sugar and milk
					Whole plant	Protrusion of uterus in female	Whole plant crushed with corcorus depress and Talmakhana and seeds of shivlingi and sugar (mishree) taken orally in morning for 5 days. Mixed with butter (Each content 5 gm).
					Whole plant	Reset to fracture of bone	Whole plant mixed with raktpushpi (mounthi) given orally with unboiled milk in morning
					Leaves or whole plant	Red/white discharge	20 gm Shankpushpi whole plant 1 gm kali mirch 1 gm ilayachi 1 gm mishree 1 gm vanslochan mixed fortal content and makes a dose for a day taken orally for 7 days
					Whole plant	Paranochia abscesses	Paste applied locally on finger tie for Three days

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