Medicinal Plants Utilized by Rural Women of Rajasthan

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Medicinal plants play a vital role in providing health care to human beings since the dawn of civilization. These plants have always been a basic resource for human health. Medicinal plants are those plant species, which are commonly used in the treatment and prevention of specific aliments and diseases. The World Health Organization (WHO) estimated that 80% of the population of developing countries rely on traditional medicines, mostly plant drugs, for their primary health care needs. Demand for medicinal plants is increasing in both developing and developed countries due to growing recognition of natural products, which have no side effects, are non-narcotic, easily available at affordable prices, and sometimes the only source of health care available to the poor. Medicinal plants have traditionally occupied an important position in the socio-cultural, spiritual, and medicinal arena of rural and tribal lives of India.

It is evident that the Indian people have tremendous passion for medicinal plants and they use them for wide range of healthrelated applications such as relief from common cold, memory improvement, treatment of poisonous snakebites, cure for muscular dystrophy, and enhancement of the body's general immunity. Therefore, an attempt was made to explore indigenous practices using medicinal plants followed by rural women of Rajasthan for health security.

Methodology

The study was conducted in five districts (Jodhpur, Jhalawar, Bhilwara, Ajmer, and Sikar) covering five major agroclimatic zones of Rajasthan. The data was collected from 300 rural women in five villages (60 from each village) through participatory rural appraisal (PRA) technique that included conversations, key informant interviews, group discussions, and observations. During data collection it was found that women used many common plant ingredients such as mint, date, ginger, turmeric (Fig. 1), coriander, Indian aloe, etc. for the treatment of common ailments. Some fruits were also used (Fig. 2). The method of preparing the medicine and mode of application were also noted. The identified practices were then documented after being scientifically

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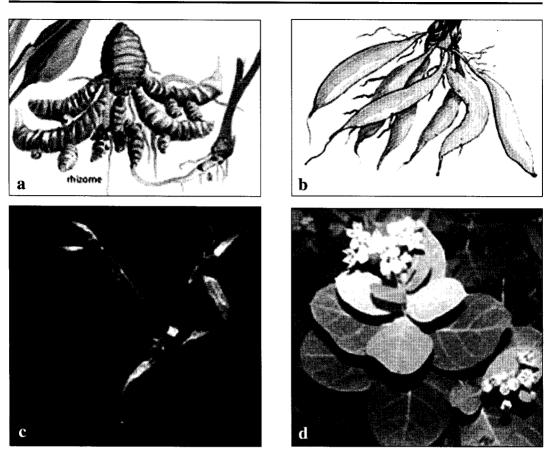


Figure 1. Plants used for common ailments: (a) haldi (Curcuma domestica); (b) shatavar (Asparagus racemosus); (c) bhringraj (Eclipta prostrata); and (d) aakda (Calotropis gigantea).

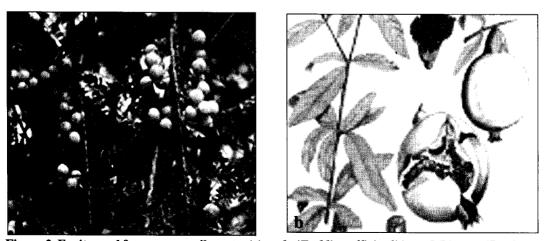


Figure 2. Fruits used for common ailments: (a) amla (Emblica officinalis); and (b) anar (Punica granatum).

validated by Ayurvedic doctors as well as from the available literature.

Indigenous remedies

The major findings for some diseases are given in Table 1.

Conclusion

Medicinal plants constitute a vast, undocumented, and overexploited economic

resource and they are the principal health care resource for the majority of the people. Communities and herbalists use medicinal plants in promoting and maintaining health of majority of population of most countries in the South. Demand of herbal medicines in the North has led to significant changes in traditional patterns of trade of medicinal plants. Thus efforts should be made to popularize such practices for future generations by establishing herbal gardens.

Table 1. Indigenous remedies using plant ingredients for treatment of some common ailments.

		Scientific basis	Method of	
Plant name	Properties	of use	preparation	Dose
Toothache				
Haldi (Curcuma domestica; turmeric)	Anodyne Anti-inflammatory Anti-bacterial	Relieves pain Reduces swelling Prevents bacterial infections	Boil water with ½ tsp turmeric powder and a pinch of salt.	Gargle with this liquid thrice a day.
Jamphal (Psidium guajava; guava)	Anodyne Anti-inflammatory	Relieves pain Reduces swelling	Boil 5-6 fresh leaves of guava in 500 ml water for 5 minutes and strain.	Gargle with this boiled water twice a day for three days.
Jeera (Cuminum cyminum; cumin)	Anodyne Anti-inflammatory Anti-bacterial	Relieves pain Reduces swelling Prevents bacterial infections	Take 2 tsp cumin seeds and boil in 200 ml water. Grind 10 g cumin seeds and 10 g rock salt to fine powder.	Gargle with this water 3–4 times a day. Rub teeth with this powder twice a day till the pain subsides.
Limda (Azardirachta indica; neem)	Anodyne Anti-bacterial	Relieves pain Prevents bacterial `infections	Take a 6-inch piece of neem stem and crush one end with teeth.	Place it in tooth cavity till pain reduces.
Eye infection				
Shatavar (Asparagus racemosus)	Ophthalmic	Reduces irritation and swelling in eyes	Boil 20 g fresh root of shatavar	Drink one cup of the boiled liquid
	Cooling	Provides coolness to the eyes	with 1 L of water till ¼ quantity	twice a day.
	Anodyne	Relieves pain	remains.	

continued

Table 1. continued

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Table 1. continued

Plant name	Properties	Scientific basis of use	Method of preparation	Dose
Aakda (Calotropis gigantea; madar)	Astringent Emetic	Provides cooling effect	Take out the milk by splitting the leaves of aakda.	Apply the milk immediately on affected area.
	Emetic	Causes vomiting	leaves of aakaa.	arrected area.
Hair fall Til (Sesamum indicum; sesame)	Hair restorer	Promotes hair growth and blackens the hair	Take 1 kg gingelly oil, 2 tsp neem leaves, and 2 tsp	Apply the mixture on the hair twice a week.
	Hair tonic Astringent	Acts as tonic Provides coolness and strength to the hair	lemon juice. Mix them well.	
Amla (Emblica officinalis; Indian gooseberry)	Astringent	Provides cooling effect	Take 20 g dry powder of amla.	Apply the mixture once a
	Trichogenous	Stimulates the growth of hair and helps in blackening of hair	Mix it with 50 g curd.	week on the hair.
	Alexeteric	Prevents infection		
Rittha (Sapindus emarginatus; soapnut)	Demulcent Astringent Cleanser	Soothens the skin Provides coolness Cleans hair and makes it shine	Take 4–5 fruits of soapnut and 4–5 pods of <i>shikakai</i> (<i>Acacia rugata</i> ; soap	Wash hair with this liquid once a week.
	Hair restorer	Restores the growth of hair	pod). Soak them in a glass of water	
	Trichogenous	Promotes hair growth	overnight. Boil these in the morning for 10 minutes.	
Bhringraj (Eclipta prostrata)	Trichogenous	Helps in blackening and strengthening of hair	Take 2 g each of dry amla, black sesame, and bhringraj. Grind	powder with
	Hair tonic	Acts as a hair tonic	to fine powder. Mix 2 g sugar in the powder.	
			Extract juice from 10–12 fresh leaves of bhringraj.	Apply the juice on the hair. It stops hair fall and makes the hair strong.
Dandruff				
Limda (Azadirachta	Demulcent	Soothens the skin	Grind 20 g fresh	Apply the paste
indica; neem)	Astringent	Provides cooling effect	leaves of neem with half glass of	on the hair and rub thoroughly
	Hair tonic	Acts as tonic	water to make paste.	once a week.

Table 1. continued

	= 	Scientific basis	Method of	_
Plant name	Properties	of use	preparation	Dose
Mehandi (Lawsonia inermis; henna)	Refrigerant Trichogenous Hair tonic	Provides coolness Stimulates hair growth Avoids premature graying of hair.	Grind 100 g fresh leaves of henna to a paste by adding water. Take 4 heaped	Apply the paste on the hair regularly once a week. Apply this
		Promotes blackening and strengthening of the hair	tablespoons powder of henna and 1 tsp dry powder of amla. Mix in two glasses of water. Soak overnight in an iron vessel.	mixture to the scalp in the
Scabies Limda (Azadirachta	Astringent	Provides cooling	Take 250 g dry	Take ½ tsp
indica; neem)	7.04	effect	leaves of neem and	powder orally
	Depurative	Purifies blood	grind to powder.	by adding sugar
	Demulcent	Soothes the skin		with hot water
	Anti-menses	Avoids regular recurrence of disease	Take 25 g bark of	daily for 10 days. Take ½ cup of the
	Alexetric	Prevents infection	neem. Boil it in one glass of water for 5 minutes.	decoction twice daily after adding a little sugar for 10 days.
			Extract juice from fresh neem leaves. Mix turmeric powder and a small quantity of mustard oil to make paste. Make ash by burning dry bark. Mix it in coconut oil to form paste.	Apply the paste over the affected areas and wash after 45 minutes. Repeat it for 7 days. Apply the paste over the affected areas and wash after 45 minutes. Repeat it for 7 days.
Dhak (Butea monosperma;	Astringent Emollient	Provides coolness to the skin Softens the skin	Grind 20 g dhak seeds with lemon juice to make a fine	Apply this paste regularly till the problem cures.
flame of the forest)	Anodyne Anti-inflammatory	Allays pain Reduces	paste.	problem cures.
	Depurative	inflammation Purifies blood		