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#### **Research Article**

# STUDIES ON HERBAL DRUGS USED IN LOCAL HEALTH TRADITIONS IN THE ARAVALLI HILLS OF GURUGRAM DISTRICT, HARYANA

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# **ABSTRACT**

The Aravalli Hills of Gurugram district, Haryana, harbor a rich tradition of utilizing herbal drugs in local healthcare practices. This study aimed to document and analyze the ethnomedicinal knowledge of the local communities residing in the vicinity of these hills. Through extensive field surveys and interviews with traditional healers, 58 plant species belonging to 32 families were recorded, with their diverse therapeutic applications in 120 disease conditions. The study revealed a strong correlation between local health traditions (LHTs) and classical Ayurvedic texts, highlighting the enduring relevance of traditional knowledge in contemporary healthcare. Furthermore, the documentation of several extra-pharmacopoeial plants and novel medicinal indications underscores the potential of LHTs in contributing to the discovery of new therapeutic agents. The findings emphasize the urgent need for conservation and sustainable utilization of medicinal plant resources and the preservation of traditional knowledge for future generations.

#### **KEYWORDS**

Ethnomedicine, Flora, Healthcare, Local health traditions, Survey

## INTRODUCTION

The use of medicinal plants for healthcare has been an integral part of human civilization since time immemorial. Traditional medical systems, such as Ayurveda, have evolved over centuries, incorporating the World Journal of Pharmaceutical Science & Technology

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empirical knowledge of local communities about the therapeutic properties of plants. The Aravalli Hills, a prominent geographical feature in the Gurugram district of Haryana, India, are home to a diverse range of plant species, many of which have been traditionally used by the local inhabitants for their healthcare needs. However, with the advent of modern medicine and rapid urbanization, this traditional knowledge is at risk of being lost. The present study aimed to document and analyze the herbal drugs used in local health traditions (LHTs) in the Aravalli Hills of Gurugram district, with a focus on their therapeutic applications, modes of preparation, and cultural significance.

#### MATERIALS AND METHODS

The study was conducted in 60 villages located within a 3 km radius of the Aravalli Hills in Gurugram district. The study area encompasses a diverse range of habitats, including sand dunes, sandy plains, alluvial plains, open forests, scrublands, salt-affected areas, lowlands, lakes, hills, and pediments. The climate is semi-arid, with an average annual rainfall of 618 mm. The vegetation is predominantly northern tropical dry deciduous, with a rich diversity of plant species.

The study employed a mixed-method approach, combining field surveys, interviews with traditional healers, and literature review. Field surveys were conducted to identify and collect plant specimens used in LHTs. Traditional healers and knowledgeable individuals from the local communities were interviewed using a semi-structured questionnaire to gather information about the medicinal uses of plants, their modes of preparation, dosage, and administration. The collected plant specimens were identified with the help of taxonomists and preserved as herbarium specimens. The information gathered from the field surveys and interviews was analyzed and compared with the available literature on Ayurvedic medicine and ethnobotany.

#### **RESULTS**

The study documented 58 plant species belonging to 32 families that are used in LHTs in the Aravalli Hills of Gurugram district. The most commonly used families were Fabaceae (7 species), Acanthaceae (4 species), Asteraceae (4 species), and Solanaceae (4 species). The majority of the plants were herbs (24 species), followed by trees (14 species), shrubs (10 species), climbers (7 species), and under-shrubs (4 species). The most frequently used plant parts were leaves (35 species) and the whole plant (26 species).

The study recorded a total of 120 disease conditions that are treated using herbal remedies in the study area. The most common ailments treated were related to the integumentary system (38 species), followed by the digestive system (34 species), reproductive system (29 species), and urinary system (26 species). The most common modes of preparation were paste (41 species), decoction (37 species), and powder (29 species). The majority of the preparations were administered orally (64%), followed by external application (36%).

The study also documented the use of 19 plant species in veterinary practices in the study area. The most common ailments treated in livestock were related to wound healing, digestive problems, and reproductive disorders.

Ethno-medicinal plants used with Disease indications in LHTs.

Sr.	Local	Botanica	Family	Habit	Part u	ised	Therapeutic	Route	Disease	
No.	Name	l Name					preparation	of	indications	in
							s	admini	LHTs	
								stratio		
								n		
1.	Khair	Acacia	Fabacea	T.	Bk,	Fl	Twigs,	Oral,	Conjunctiviti	is,
	ī	Senegal	e		Gm,	Lf,	Decoction,	Local	Stomatitis,	
		L. Willd.			New		Paste,		Dysentery,	
					Sprout	ts	Powder		Growth	
									Retardatio,	
									Postpartum	
									Recovery,	
									Uterine	
									Prolapse,	
									Infertility,	
									Spermatorrho	oe
									a, Dryness	&
									Itching of Sk	in
ļ	,								Veterinary	
									use- Fodd	er,
ļ	,								Bark decocti	on
									for washi	ng
									prolapsed	
	,								uterus	
2.	Olkān	Achyrant	Amarant	H.	Lf,	Rt,	Paste, Tooth	Oral,	Wound	
	ţā	hus	haceae		Wp, S	t	Brush,	Local	Healing, On	ro-
		aspera L.					Decoction,		Dental	
	,						Powder, Ash		Hygiene,	
									Dental Pa	in,
									Dental Carri	es,
									Cough,	
									Pneumonia,	
									Loss	of
									Appetite,	

3.	Bāsā	Adhatod	Acantha	Sh.	I f Wa	Description	Orol	Snake Bite, Pyorrhoea  Chronic
3.	Ваѕа	a vasica Nees	ceae	Sn.	Lf, Wp	Decoction, Paste, Hot Infusion	Oral, Local	Cough, Dermatitis, Fever
4.	Kāṅṭa caulāī	Amarant hus spinosus L.	Amarant	H.	Rt, Lf, Wp, Mature Infloresce nce Spike	Paste, Gruel, Juice, Water Extract, Powder	Oral	Burning Micturition, UTI, Gastric Upsets, Constipation, Insect Bite, Urinary Obstructions, Renal Calculi, Abdominal Distention, Flatulence
5.	Dhau ka	Anogeiss us pendula Edgew.	Combret aceae	T.	Bk, Lf, Mature Fruits	Powder, Decoction	Local	Wound Healing, Malaria, Urinary Obstruction
6.	Śtāba ra	Asparag us racemos us Willd.	Liliaceae	Cl.	Tuber	Powder, Water Extract	Oral	General Debility, Galactagogue, Nourishment, Aphrodisiac, Dyspepsia Veterinary use

								- As
								Galactagogue
7.	Pyājā	Asphodel	Asphode	H.	Sd, Wp,	Fumes,	Oral,	Dental Carries
		us	laceae			Decoction,	Local	and Pain,
		tenuifoli				Paste,		Traumatic
		us Cav.				Paultice,		Inflammations,
						Juice		Piles
8.	Hiṅgu	Balanites	Zygophy	Sh	Sd, Fr	Oily Extract,	Oral,	Wound
	ā,	roxburgh	llaceae		Mesocarp	Paste,	Local	Healing,
	Hiṅgo	ii			, Bk	Powder,		Whooping
	<u></u> ţa	Planchon				Water		Cough,
						Extract		Chronic
								Cough, Hair
								Growth, Hair
								Fall,
								Pediculosis
								Veterinary use
								– conjunctivitis
9.	Piyāb	Barleria	Acantha	H.	Wp, Lf	Ash, Juice	Oral,	Chronic
	āsā	prionitis	ceae				Local	Cough,
		L.						Pyorrhoea,
								Cold and
								Cough, Skin
								Eruption in
								Herpes, Piles
10.	Надји	Blephari	Acantha	H.	Wp	Water	Oral,	Bone Fracture,
	ḍа	S	ceae			Extract,	Local	Musculo-
		maderas				Paste		Skeletal Pain,
		patensis						Seizures
		(L.)						Veterinary use

		Heyne ex						-
		Roth						inflammations
								after trauma
11.	Gugġ	Boswelli	Burserac	T.	Gm, Bk	Paste,	Oral,	Musculoskelet
	aļa	a serrata	eae			Fumes,	Local	al Pains, Bone
		Roxb.				Powder,		Fracture, Ear
						Cold		Maggots, Joint
						Infusion		Pain,
								Inflammation
								in Arthritis,
								Heat Stroke,
								Burn Injury,
								Loss of
								Sensation
								Veterinary use
								- fomentation
								to cure mastitis
12.	Dhāk	Butea	Fabacea	T.	Bk, Fl, Lf,	Fomentation,	Oral,	Pain And
	a	monospe	e		Gm	Powder,	Local	Inflammations,
		rma				Decoction,		Postpartum
		(Lam.)				Hot Infusion,		Uterine
		Taub.				Poultice		Prolapse,
								Backache,
								Uterine
								Prolapse,
								Habitual
								Abortions,
								Loss of
								Sensation
								Veterinary –
								wound healing

13.	Kaira,	Capparis	Capparid	Sh	Tender	Decoction,	Oral,	Jaundice,
	Jāla,	decidua	aceae		Sprouts,	Paste,	Local	Dental Pain
	ţī'nţa	(Forssk.)			Fr, Fl,	Chewed,		and Dental
		Edgew.				Powder		Carries, Worm
								Infestation,
								Loss of
								Appetite,
								Mumps
								Veterinary use
								- Worm
								infestation
14.	Kānfū	Cardiosp	Sapindac	Cl.	Lf, Rt	Juice, Paste,	Oral,	Rheumatic
	ţī	ermum	eae			Decoction	Local	Fever, Allergic
		halicaca						Skin Eruptions,
		bum L.						Insect Bite,
								Dysmenorrhea
15.	Jaṅga	Carissa	Apocyna	Sh.	Fr, Fl, Bk,	Vegetable,	Oral,	Dietary Use,
	lī	spinarum	ceae		Rt	Pickle,	Local	Hyperacidity,
	karau	L.				Śrbata,		Gastritis, Piles,
	'ndā					Decoction,		Stomatitis,
						Powder		Leucorrhoea
16.	Karvā	Cassia	Fabacea	T.	Fr, Bk, Lf	Decoction,	Oral,	Abdominal
	rā,	fistula L.	e			Paste,	Local	Colic, Skin
	Karvā					Decoction,		Infections,
	lā					Hot Water		Boils, Abscess,
						Infusion		Insect Bite
17.	Kasau	Cassia	Fabacea	H.	Sd, Lf,	Decoction,	Oral,	Boils, Abscess,
	'ndī	sophera	e		Wp, Fr	Paste,	Local	Loss of
		L.				Powder		Appetite, Dog
								bite, Snake Bite
								Veterinary -
								Uterine
								Prolapse

18.	Arnai	Cleroden	Verbinac	Sh.	Fr, Lf, Rt,	Fumes,	Inhalati	Dyspnoea,
		drum	eae		Sd	Paste,	on,	Asthma,
		phlomidi				Poultice,	Local,	Urticaria,
		s L.				Powder	Oral	Insect Bite,
								Frozen
								Shoulder, Sore
								Throat
								Veterinary use
								- foot and
								mouth diseases
19.	Hiran	Convolv	Convolv	Cl.	Lf, Fl, Wp	Juice, Hot	Oral	UTI, Allergic
	khurī	ulus	ulaceae			Infusion,		Skin Diseases,
		arvensis				Decoction		Constipation,
		L.						Fever,
								Impotence
								Veterinary use
								- foot and
								mouth diseases
20.	Śaṅkh	Convolv	Convolv	H.	Wp, Lf	Decoction,	Oral	Fever,
	ариṣр	ulus	ulaceae			Juice, Paste		Insomnia,
	ī	prostrate						Neuro-tonic,
		s Forsk.						Brain Tonic,
								Indigestion
21.	Guhā	Conyza	Asterace	H.	Lf, Rt	Juice, Paste	Oral,	Diarrhoea,
	vrā	bonarien	ae				Local	Vomiting,
		sis L.						Headache
22.	Kuraṇ	Corchor	Tiliaceae	H.	Wp, Lf,	Powder,	Local,	Contusions,
	ḍа,	us			Sd	Paste, Water	Oral	Musculo-
	Bāph	depressu				Extract,		Skeletal Pains,
	$al\bar{\imath}$	s L.						Bone Fracture,
								Female
								Infertility,
								Leukoderma,

								General Health Tonic
23.	Baraṇ	Crataeva	Capparid	T.	Bk, Lf	Decoction,	Oral,	Renal Calculi,
	ā	nurvala	aceae			Powder,	Local	UTI, BPH,
		Buch.				Paste		Ascites,
								Vomiting,
								Gastritis
24.	Amba	Cuscuta	Cuscutac	Cl.	Wp, St,	Juice, Paste,	Local,	Jaundice,
	rbela	reflexa	eae			Cold Water	Oral,	Headache, Skin
		Roxb.				Infusion,	Bathin	Diseases,
						Decoction	g	Scabies,
								Stomatitis
								Veterinary use
								- Foot and
								Mouth disease,
								jaundice,
								dysentery
25.	Bisen	Diospyro	Ebenace	T.	Lf, Fr, Bk	Paste, Juice,	Local,	Boils, Abscess,
	du /	S	ae			Decoction	Oral	Earache,
	Pisen	montana						Spider Bite,
	du	Roxb.						Fever
								Veterinary use
								- Worm
								infestation
26.	Gāda	Dipcadi	Hyacinth	H.	Bulb	Paste, Juice	Oral,	Cough And
	ḍā kī	serotinu	aceae				Local,	Cold, Fever,
	pyāja	m (L.)					Drops	Pruritis,
	/	Medik					Instille	Dermatitis,
	Pahā						d In	Improves
	дī						Eye	Eyesight, Piles
	pyāja							Veterinary –
								Nasya for
								Fever

27.	Uṅṭa	Echinops	Asterace	H.	Rt, Wp	Paste, Water	Local,	Fungal
	Kaṭail	echinatu	ae			Extract,	Oral	Infections,
	ā	s Roxb.				Garland,		Vitiligo,
						Decoction,		Jaundice,
						Powder		Labor Pain,
								Impotence
								Veterinary use
								- digestive
								problems
28.	Patth	Elytraria	Acantha	H.	Wp, Lf,	Paste, Juice	Oral,	Mumps, Renal
	ara-	acaulis	ceae		Infloresce		Local	Calculi,
	caṭṭā	(L.f.)			nce Spike			Diarrhoea
		Lindau						
29.	Phulḍ	Evolvulu	Convolv	H.	Wp	Paste,		Headache,
	ī	S	ulaceae			Decoction,		Fever, Coolant,
		alsinoide				Juice		Brain Tonic
		s L.						
30.	Jvāśī	Fagonia	Zygophy	U. sh	Wp	Decoction,	Oral	Fever, Blood
		cretica	llaceae			Juice,		Purifier,
		L.				Powder,		Abscess,
						Paste		Diabetes
31.	Pīpaļ	Ficus	Moracea	T.	Bk,	Decoction,	Oral,	Male
	а	religiosa	e		Tender	Paste,	Local	Infertility,
		L.			Buds, Fr,	Powder,		Premature
					Lac	Poultice,		Ejaculation,
						Gruel		Wounds,
								Abrasions,
								Chronic
								Cough, Pain
								And
								Inflammation
								Of Scrotum,
								Spermatorrhoe
								a

32.	Pāpḍ	Fumaria	Fumaria	H.	Wp, Lf	Juice, Paste	Oral,	Typhoid Fever,
	o	indica	ceae				Local,	Urticaria,
		(Haussk.					Nasal	Insect Bite,
		) Pugsley					Drops	Worm
								Infestation,
								Fainting
33.	Khaṭa	Grewia	Tiliacae	Sh.	Fr, Rt,	Juice, Cold	Oral	Dysuria,
	khaṭī	flavescen				Infusion		Leucorrhoea,
		s A.L.						Dietary Use
		Juss.						Veterinary –
								Delayed Or
								Retained
								Placentia
34.	Nīla	Indigofer	Fabacea	U. Sh	Lf, Fr, Sd,	Paste, Ash,	Oral,	Hair Greying,
		а	e		Rt	Hot Infusion,	Local	Hair Care,
		tinctoria				Decoction		Eczema,
		L.						Dandruff,
								Vomiting,
								Heart Burn,
								Acid Reflux
35.	Jaṅga	Launia	Asterace	H.	Wp, Lf,	Paste, Ghī	Local,	Nonhealing
	lī	procumb	ae		Rt	(Siddha Ghī),	Oral	Wounds,
	Gobhī	ens				Water		Urinary
		Roxb.				Extract, Oil		Obstructions,
						(Siddha		Eczema
						Taila)		
36.	khīṁp	Leptadie	Apocyna	Sh	Lf,	Hot Infusion,	Oral,	Dysmenorrhea,
	a	nia	ceae		Tender	Paste,	Local	Sluggish
		pyrotech			Branches,	Decoction,		Wounds,
		nica			St, Wp,	Collyrium,		Fever,
		(Forsk.)			Fl, Fr	Cold		Ophthalmia,
		Decne.				Infusion,		Conjunctivitis,
						Vegetable		Dietary Use
								Veterinary use

								- Fodder,
								conjunctivitis,
								foot and mouth
								disease
37.	Bāgh	Martynia	Pedaliac	H.	Lf, Rt, Sd	Cooked Milk	Local,	Impotence In
	nakh /	annua L.	eae			(Kṣīra Pāka)	Oral	Males,
	Bicch					, Paste,		Scorpion Bite,
	ио					Garland,		Epilepsy,
						Cold Water		Muscle Cramps
						Infusion		
38.	Kaim	Mitragyn	Rubiace	T.	Lf, Bk,	Poultice, Oil,	Local,	Boils, Abscess,
	a	a	ae			Decoction,	Oral	Otitis Media,
		parvifoli				Paste		Hypertension,
		a (Roxb.)						Allergic
		Korth						Dermatitis
39.	Deśī	Momordi	Cucurbit	Cl.	Rt, Wp,	Water	Oral,	Diabetes,
	karelā	ca	aceae			Extract,	Local	Acne, Dietary
		balsamin				Decoction,		Use
		a L.				Powder,		
						Paste,		
						Vegetable,		
						Pickle		
40.	Naka	Ocimum	Lamiace	H.	Lf, Sd, Fl	Juice,	Oral,	Obesity, Ear
	da	american	ae			Powder,	Local	Maggots,
	bavaḍ	um L.				Decoction,		Haematuria,
	$\bar{\iota}$					Paste, Sauce		Dietary Use,
						,		Pain Abdomen,
								Gonorrhoea

41.	Nāga	Opuntia	Cactacea	Sh	Fr,	As Fruit,	Oral,	General
	phanī	dillenii	e		Cladode	Juice, Cold	Local	Debility,
		(Ker-				Infusion,		Carminative,
		Gawler)				Poultice, Ash		Wound
		Haworth						Healing, Boils,
								Abscess, Heat
								Stroke, Asthma
42.	Khaḍ	Pedaliu	Pedaliac	Н	Fr, Wp	Powder,	Oral	UTI, Heat
	o	m murex	eae			Cold Water		Stroke,
	Gokhr	L.				Infusion,		Spermatorrhoe
	$\bar{u}$					Water		a, Impotence,
						Extract		Diarrhoea,
								Erectile
								Disfunction
43.	Dudhi	Pentatro	Asclepia	Cl.	St, Rt, Fr,	Latex,	Oral,	Incised
	yala	pis	daceae		Latex	Powder,	Local	Wound, Fever,
	bela	Spiralis				Cold Water		Heat Stroke,
		(Forsk.)				Infusion		Dysentery
		Decne.						
44.	Ākasa	Pergular	Asclepia	Cl	Fl, St, Lf,	Paste, Latex,	Oral,	Herpes, Boils,
	n bela	ia	daceae		Latex	Juice	Local	Abscess, Fever
		daemia						
		(Forsk.)						
		Chiov.						
45.	Cītā	Plumbag	Plumbag	H.	Rt, Lf,	Paste,	Local,	Boils, Abscess,
		o	inaceae		Wp	Powder,	Oral	Loss Of
		zeylanica				Decoction		Appetite,
		L.						Vitiligo,
								Carbuncles,
								Pruritis
46.	Jānţi	Prosopis	Fabacea	T.	Fr, Bk	Powder,	Oral	Insomnia,
		cineraria	e			Gruel,		Dietary Use,
		(L.)				Decoction		Leucorrhoea,
		Druce						Vaginitis

47.	Pīlha,	Salvedor	Salvador	T.	Fr, St, Lf,	As Fruit,	Oral,	Dietary Use,
	jāla	a	aceae		Rt	Tooth Brush,	Local	Oro-Dental
		oleoides				Water		Hygiene,
		Decne				Extract,		Diarrhoea, Pain
						Decoction		Abdomen,
								Diabetes
48.	Bela	Sida	Malvace	H.	Rt, Bk,	Decoction,	Oral,	Indigestion,
	Khare	cordata	ae		Sd, Lf	Poultice,	Local	Stomach Ache,
	'nţī /	(Burm.f.)				Modaka		Skin Diseases,
	Kalyā	Bross.						Abscess, Boils,
	$n\bar{\imath}$							General
	Bela							debility,
								Leucorrhoea
								Veterinary use
								– diarrhoea
49.	Rāṇā	Solanum	Solanace	Sh.	Lf, Fr,	Fumes,	Oral,	Asthma,
	Ваепд	incanum	ae		Wp	Decoction,	Inhalati	Pneumonia,
	aṇa	L.				As Vegetable	on	Dyspepsia,
								Indigestion,
								Dietary Use
50.	Mako	Solanum	Solanace	H.	Wp, Lf,	Decoction,	Oral,	Rheumatic
		nigrum	ae		Fr	Paste, Gruel,	Local	Arthritis, Liver
		L.				Malahara		Problems,
								Generalized
								Oedema,
								Worm
								Infestation
51.	Pasar	Solanum	Solanace	H.	Wp, Fr,	Decoction,	Oral,	Cough, Fever,
	a-	surattens	ae			Paste	Local	Sore Throat,
	Kaṭelī	e Burm.f.						Rheumatic
								Arthritis, UTI,
								Pruritis, Boils,
								Abscess

52.	Katir	Sterculia	Sterculia	T.	Gm		Cold Water	Oral,	Heat Stroke,
	ā	urens	ceae				Infusion,	Local	Cracked Heels,
		Roxb.					Śarbat		General
							(Syrup),		Debility
							Paste,		
							Powder		
53.	Rūheḍ	Tecomell	Bignonia	T.	Fl,	Bk,	Hot Water	Oral,	Infertility In
	ā	a	ceae		Heart		Infusion,	Local	Females, Liver
		undulata			wood		Decoction,		Diseases, Colic
		(Sm.)					Paste,		Pain Abdomen,
		Seem.					Powder		Indigestion
54.	Jhojh	Tephrosi	Fabacea	U. Sh	Wp,	Rt,	Powder,	Oral	Liver And
	rū	a	e		Lf		Decoction		Kidney
		purpuria							Problems,
		(L.) Pers.							Amoebic
									Dysentery,
									Anemia,
									Flatulence
55.	Bhākh	Tribulus	Zygophy	H.	Wp, F	r	Powder,	Oral	Urolithiasis,
	фi	terrestris	llaceae				Decoction,		Impotence,
		Linn.					As Vegetable		Burning
									Micturition,
									UTI, General
									Debility,
									Dietary Use.
									Veterinary
									Use –
									Weakness
56.	Sadāh	Tridax	Asterace	H.	Wp, L	f	Juice, Paste	Oral,	Abrasions,
	arī	procumb	ae					Local	Pruritis,
		ens L.							Dermatitis,
									Bleeding
									Wounds,
									Fungal

								Infections,
								Hematuria
								Veterinary use
								- proper
								implantation of
								foetus
57.	Akasa	Withania	Solanace	U. sh	Rt, Lf	Powder,	Oral,	General
	'nd	somnifer	ae			Poultice,	Local	Debility,
	/Asag	a (L.)				Paste		Burning
	aṅdha	Dunal.						Micturition,
								Spermaturia,
								Inflammation,
								Insomnia,
								Wound
								Healing
58.	Khīrp	Wrightia	Apocyna	T.	Bk, Sd, Lf	Decoction,	Oral	Diarrhoea,
	halī /	tinctoria	ceae			Powder,		Diabetes,
	kuḍā	R. Br.				Water		Flatulence,
						Extract		Indigestion,
								Infective Skin
								Diseases,
								Worm
								Infestation

### **DISCUSSION**

The findings of the study highlight the rich diversity of medicinal plants used in LHTs in the Aravalli Hills of Gurugram district. The strong correlation between the medicinal uses of plants in LHTs and classical Ayurvedic texts suggests that traditional knowledge has been passed down through generations and continues to play a vital role in healthcare practices in the region. The documentation of several extra-pharmacopoeial plants and novel medicinal indications underscores the potential of LHTs in contributing to the discovery of new therapeutic agents.

The study also revealed that the knowledge of medicinal plants is rapidly eroding among the younger generation, primarily due to the increasing popularity of modern medicine and the lack of interest in traditional practices. This highlights the urgent need for conservation and documentation of traditional knowledge before it is lost forever.

The study has several implications for future research and practice. The documented medicinal plants can be further investigated for their pharmacological properties and potential applications in drug development. The study also highlights the importance of integrating traditional knowledge with modern science to develop safe and effective healthcare solutions.

#### **CONCLUSION**

The present study provides a comprehensive documentation of the herbal drugs used in LHTs in the Aravalli Hills of Gurugram district, Haryana. The findings highlight the rich diversity of medicinal plants used in the region and their potential applications in healthcare. The study also underscores the urgent need for conservation and sustainable utilization of medicinal plant resources and the preservation of traditional knowledge for future generations.

#### LIMITATIONS OF THE STUDY

The study has certain limitations that need to be acknowledged. The information gathered from traditional healers and local communities is based on their empirical knowledge and experiences, which may not always be scientifically validated. Further research is needed to evaluate the efficacy and safety of the documented herbal remedies. Additionally, the study was limited to a specific geographical area and may not be representative of the entire Aravalli Hills region.

#### **FUTURE DIRECTIONS**

The present study provides a foundation for future research on the medicinal plants of the Aravalli Hills. Further studies can be conducted to evaluate the pharmacological properties of the documented plants and to identify their active constituents. Clinical trials can be conducted to assess the efficacy and safety of the herbal remedies used in LHTs. Additionally, efforts can be made to conserve and sustainably utilize the medicinal plant resources of the region and to promote the integration of traditional knowledge with modern science.

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