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Original Article

A compiled knowledge repository of Indigenous traditional medicinal plants in Ghaziabad India as obtained from Vaidya and Hakims

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ABSTRACT: Medicinal plants are an essential source of therapeutically active drugs and play a primary role in the healthcare system throughout world. The Indian system of medicines has been an integral part of the civilization and tradition of India down the centuries. Plant based medicines were being used extensively for the amelioration, prevention and treatment of chronic and acute human diseases by people who were known as traditional healers i.e., vaidya, hakims whom we know as doctors in the present times. In terms of wealth of traditional knowledge India is one of the leading countries in Asia, as we know traditional medicine is an all-inclusive term used to describe two systems such as organized systems which includes all the Ayurveda, siddha, Unani, Greek medicines and several types of unorganized medicinal practices (i.e. indigenous, folk or tribal medicine). In India traditional knowledge till today majorly remains undocumented, most of this important information were passed through generations in the form of folklores, hence it is very important to tap this ethno-botanical knowledge of people and document the useful plants of that particular region, it can prove to be an essential tool that might help in the understanding of human-environment association. Our work involves a survey on the use of traditional medicinal plants by the villagers for the prevention and treatment of several diseases and disorders, this information was passed through generations in the form of folklores. The present study was carried out in the villages of Muradnagar district Ghaziabad all the information was gathered from young and old age people, vaidya, traditional healers and hakim who were aged between 30-65 years.

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INTRODUCTION

Nearly eighty per cent of world population depends on the traditional system of alternative medicine [1-3]. It is assumed that in developing countries like India, Nepal, Srilanka, Bangladesh more than fifty per cent drugs under clinical trials are of herbal origin. India due to its geographical location is blessed with a plethora of diverse flora, it is because of climatic biodiversity that plants withstand different weather and develop the chemical system to fight against the microbes, suns harsh radiations and oxidants, these secondary metabolites synthesised by plants are being tapped since ages to obtain therapeutically

active drugs, it seems that treatment by herbs gives eminent pleasure, mental peace good lifestyle [4, 5].

In terms of wealth of traditional knowledge of plants and their benefits, India is one of the leading countries in Asia, health benefits of over two thousand plant species are identified by the Ayurvedic system of medicine, and has been documented as in ancient Indian books like *Charak Samhita*, *Sushrut Samhita*, *Bhav prakasha*, *Ras Tarang* [6-7], but most of this knowledge has been conveyed orally from one generation to another generation by vaidya and hakim and improvised by practicing, due to the lack of documentation most of these medicinal plants

though considered to be safe sometimes proved to be toxic and cause poisoning, either be due to misidentification of the medicinal plant from where they were sold/ collected or imperfect preparation [8]. To protect this wealth of knowledge there is a dire need to document each information in detail.

A survey was carried out on the use of traditional medicinal plants by the villagers for the prevention and treatment of several diseases and disorders this information were passed through generations in the form of folklores. The present study was carried out in the villages of Muradnagar district Ghaziabad all the information was gathered from young and old age people, vaidya, traditional healers and hakim who were aged between 30-65 years.

Evidence about the use of different part of the plant and their therapeutic utility were obtained through the survey. Astonishingly the locals were well versed with the important criteria about the dosage and route of administration. It was appreciable on the part of the locals to have shared their forkloric information regarding the use of traditional medicinal plants with us.

The available plant material (leaves, stem, bark, root and fruit) were collected from the fields each plant parts were labelled with a specific number and available information were recorded in the field notebook. This collected Plant material was identified by the help of Department of Pharmacognosy, School of Pharmacy, Muradnagar, Ghaziabad. Further confirmation was obtained by the different volume of Anonymous, the wealth of India, Raw material.

MATERIALS AND METHODS

Description of Study area

Muradnagar lies in the Ghaziabad district situated in the upper Ganga region, approximately fifty kilometres away from north Delhi. It lies in Latitude 28.771646 and longitude 77.507561. Parallel to this National highway a northern railway line section runs from Delhi–Saharanpur. This place is famous as Chota Haridwar of Ghaziabad.

Collection of information

Method used for collection of data involves field examination, semi structured interviews of vaidya and hakim, local practitioner. Verbal questionnaires were put forth to the villagers based on health problem, there diagnose, treatment method, local name of medicinal plant used, parts used, method of preparation and its application.

Plant identification

Identification of plant was done through traditional practitioner and comparative study of plant specimen with different books available in the ITS College of Pharmacy, Muradnagar, Ghaziabad. The following table 1 contains list of plants with their family name and frequency.

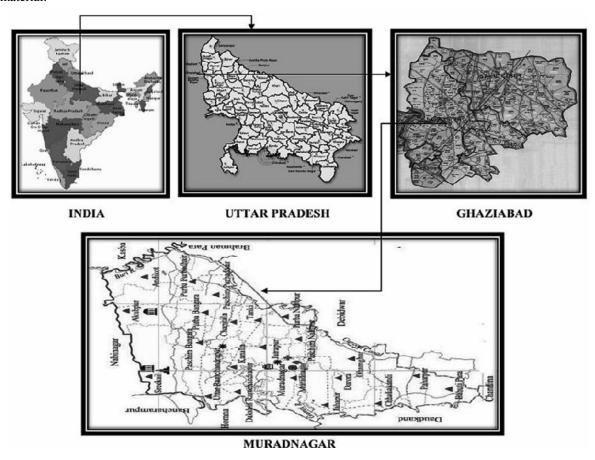


Fig. 1; Drawing of Study Area

Table 1: List of plant family with their frequency

S. No.	Family of the plants	Frequency	S. No.	Family of the plants	Frequency
1	Annonaceae	1	24	Scrophulariaceae	1
2	Araceae	1	25	Verbenaaceae	1
3	Asclepiadaceae	1	26	Zygophyllaceae	1
4	Asteraceae	1	27	Acanthaceae	2
5	Bombaceae	1	28	Amaranthaceae	2
6	Burseraceae	1	29	Anacardiaceae	2
7	Caesalpiniaceae	1	30	Apiaceae	2
8	Cannabinaceae	1	31	Apocynaceae	2
9	Chenopodiaceae	1	32	Combretaceae	2
10	Curcubitaceae	1	33	Cruciferae	2
11	Cyperaceae	1	34	Meliaceae	2
12	Lythraceae	1	35	Moraceae	2
13	Menispermaceae	1	36	Poaceae	2
14	Mimosaceae	1	37	Rutaceae	2
15	Musaceae	1	38	Zingiberaceae	2
16	Myrtaceae	1	39	Convolvulaceae	3
17	Nyctaginaceae	1	40	Laminaceae	3
18	Oleaceae	1	41	Lilaceae	3
19	Papaveraceae	1	42	Malvaceae	3
20	Pedaliaceae	1	43	Solanaceae	3
21	Plumbaginaceae	1	44	Euphorbiaceae	4
22	Punicaceae	1	45	Fabaceae	5
23	Sapotaceae	1			

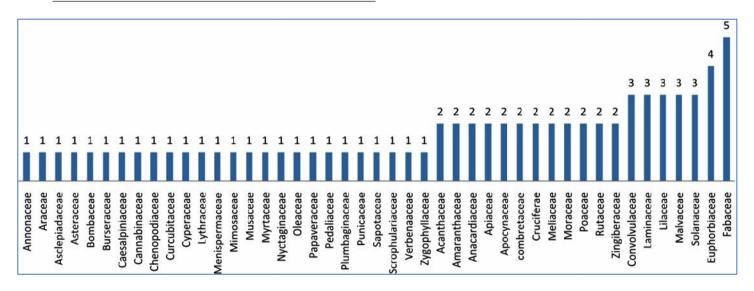


Fig 2: Graphical presentation of frequency of the plants Families

Bark of the under mentioned list of plants are used extensively as traditional medicine, bark of plants like *Terminalia arjuna*, *Saraca asoca* is used to cure certain heart ailments, and menorrhagia respectively when given along with milk.

Bark of plant such as *Hibiscus rosa-sinensis*, *Acacia Arabica*, *Ficus religiosa* are used to cure wounds, as abortifacient, and strengthening gums respectively (table 2).

Table 3 contains a list of plants whose fruits are used extensively for various therapeutic purpose.

Table 2: Bark utilized by Practitioner as traditional medicine

S. No.	Botanical Name	Family	Local Name	Part Used	Utilization
1	Terminalia arjuna	Combretaceae	Arjun		Bark powder is given with milk to
1	тегтинана агјина	Combietaceae	Aijuii		cure the heart disease.
					Bark powder is given with milk
2	Saraca asoca	Fabaceae	Ashok		during menorrhagia from the forth
					days of menstrual cycle.
					13 to 15 grams of gurhal bark extract
3	Hibiscus rosa-sinensis	Malvaceae	Gurhal	Bark	are given continuously for a week
					cause abortion
4	Acacia Arabica	Mimosaceae	Babul		Bark extract are used to cure wounds
					Bark powder are used in morning
5	Ficus religiosa	Moraceae	Peepal		tooth wash for strengthening of
					gums

Table 3: Fruit utilized by Practitioner as traditional medicine

S. No.	Botanical Name	Family	Local Name	Part Used	Utilization
1	Semecarpus anacardium	Anacardiaceae	Bhilwa		Daily intake of fruit improves the indigestion and treat the piles and cough
2	Terminalia bellirica	Combretaceae	Bahera		Bahera are used in trifla preparation. For expel out the gas from stomach
3	Momordica charantia	Curcubitaceae	Karela		One glass of karela juice, empty stomach is helpful to cure diabetes
4	Emblica officinalis	Euphorbiaceae	Amala		Fruit juice is helpful to cure diabetes and heart disease. It is prescribed with drug for procurement of skin disease.
5	Tamarindus indica	Fabaceae	Imli		Fruit paste is applied on hair to remove dandruff. Bark Powder cure the gastric pain
6	Allium cepa	Lilaceae	Pyaz		Vinegar pate of pyaz with karela fruit pulp are used helpful in headache
7	Musa paradisiaca	Musaceae	Kela	Fruit	Cut the ripe banana and filled with desi kapoor, tie with a thread and kept 8a side for overnight. Next morning peel the banana and eat this continue three days. Worms will be removed out in stool.
8	Syzygium cumini	Myrtaceae	Jamun		Fruit seed powder intake can relive from the diabetes and indigestion problem.
9	Punica granatum	Punicaceae	Annar		Fruit juice are given for enhance the memory and improve the brain strength
10	Aegle marmelos	Rutaceae	Bael		Fruit pulp juice are used to cure dysentery and diarrhea
11	Citrus medica	Rutaceae	Chota Neebu		Cut the neebu in two pieces and rubbed with black salt at bruises for two to three days to remove the bruises.
12	Tribulus terrestris	Zygophyllaceae	Gokhru		Fruit are boiled with water and this water given daily for removing of stone from kidney

Apart from fruits other parts such as seeds are also known to be therapeutically active, the following list contains the same.

According to the vaidya and hakims seeds of *Mangifera indica* are known to cure piles and skin disorder, seed powder of *Chenopodium albicum* are known to cure swollen gums, seed powder of *Brassica campestris* and *Jatropha curcas* are helpful in intestinal disorders and stomach disorders (table 4).

Rhizomes of the following plants are believed to be therapeutically active. Rhizomes of *Acorus calamus*, *Curcuma domestica*, *Zingiber officinalis* are used as anti-pyretic, anti-inflammatory, anti-tussive respectively (table 5).

Table 4: Seeds Utilize by Practitioner as Traditional Medicine

S. No.	Botanical Name	Family	Local Name	Part Used	Utilization
1	Mangifera indica	Anacardiaceae	Aam		Seed powder are taken early in the morning with fresh water use to cure piles and skin
					disease
2.	Chenopodium album	Chenopodiaceae	Bathua		Seed powder are given with fresh powder to
2	2 Chenopoulum album	Chehopodiaceae	Daniaa	Seed	cure the swollen gums
3	Brassica compestris	Cruciferae	Sarsaun		Oil given to calves for removal of the
3	Brassica compesiris	Crucifcrac	Sarsaun		intestinal disorder
4	Iatropha aureas	Euphorbiaceae	Ratanjot		powdered seed extract are helpful to cure
4	Jatropha curcas	Euphorbiaceae	Katanjot		stomach disorder and cholera

Table 5: Rhizomes Utilize by Practitioner as Traditional Medicine

S. No.	Botanical Name	Family	Local Name	Part Used	Utilization
1	Acorous calamus	Araceae	Bach		Powder of rhizomes are twice in a day to cure the fever in children
2	cyperus rotundus	Cyperaceae	Motha		Equal quantity of motha rhizomes pieces of gloe and dried ginger are given orally trice in a day to cure the malaria.
3	Asparagus racemosus	Lilaceae	Satawari	Rhizomes	Rhizomes juice are increase sex desire.
4	Curcuma domestica	Zingiberaceae	Haldi		make a paste with mustard oil and apply on the broken horn of animal to relive the pain and work as anti-inflammatory
5	Zingiber officinalis	Zingiberaceae	Adarak		Domestically it is given in cold and cough.

Table 6: Leaf Utilized by Practitioner as Traditional Medicine:

S. No.	Botanical Name	Family	Local Name	Part Used	Utilization
1	Annona squamosa	Annonaceae	Sharifa		In the treatment of jaundice leaf paste are rubbed on head.
2	Coriandum sativum	Apiaceae	Dhania		Leaf paste (Chatani) are given in food to increase the appetizer
3	Eclipta alba	Asteraceae	Bhringraj		Paste of leaves are used to cure dandruff and black the hair
4	Cannabis sativa	Cannabinaceae	Bhang		Fresh leaf paste is applied on anus to cure piles
5	Convolvulus pluricaulis	Convolvulaceae	Sankhpushpi		Paste of sankhpushpi are useful as brain tonic and hair tonic
6	Evolvulus alsinoides	Convolvulaceae	Shankhpushpi		Cup of fresh juice in morning cure the urinary problem.
7	Ricinus communis	Euphorbiaceae	Arend		Mustered oil applied on the leaves, warm it and apply at the point of pain helpful to reduce the inflammation
8	Dalbergia sissoo	Fabaceae	Shisham	Leaf	Leave extract with sugar cure the bleeding in nose. Bark Powder are use for gonorrhoea
9	Mentha piperita	Laminaceae	Pudina		Leaves are given in the treatment of jaundice
10	Nyctanthes arbour-tristis	Oleaceae	Harsingar		Trice in a day leaf extract with black pepper, salt and ginger to cure malaria fever
11	Ocimum basilicum	Laminaceae	Kali Tulsi		For removing of cough used in the tea.
12	Ocimum sanctum	Laminaceae	Tulsi		For removing of toothache, leaves are crushed with salt and place on the tooth.
13	Lowsonia inermis	Lythraceae	Mehndi		Leaf decoction is given to the jaundice patient
14	Gossypium arboretum	Malvaceae	Kapas		Leaf paste with vinegar used to remove fungal infection
15	Melia azadirachta	Meliaceae	Meetha neem		Watery juice are used to kill the worm in cattle

16	Bacopa monnieri	Scrophulariaceae	Brahmi		Boil with water and given to child to remove the cough, cold and asthma
17	Nicotiana tobacum	Solanaceae	Tambaku		For the procurement of asthma 2 to 3 gram of complete burn ash given daily.
18	Solanum nigrum	Solanaceae	Makoi		Small cup of leaves water extract is used to cure skin and liver disease.
19	Andrographis paniculata	Acanthaceae	Kalmegh		Water extract are used to cure fever. Leaves extract are given with milk to cure snake bite
20	Catharanthus roseus	Apocynaceae	Sadabahar		Cup of leaf juice (2 to 3 drop) are useful to cure the blood dysentery. Root paste cure the aseptic wounds
21	Acalypha indica	Euphorbiaceae	Khokali		Little bit amount of paste with leaf paste are used to cure eczema and chest pain
22	Abutilon indicum	Malvaceae	Atibala		Orally five to seven ml leave paste are used to cure piles
23	Cynodon dactylon	Poaceae	Doob ghass		5 to 7 ml of juice with sugar cure the nasal bleeding.
24	Cassia fistula	Caesalpiniaceae	Amaltas	Leaf and Flower	leaf and flower are boiled in water and gives to children to remove the worms from stomach
25	Aerva lanata	Amaranthaceae	Chhaya	Leaf Juice	watery juice is helpful to cure the urinary problem

Root powder of in the form of paste of *Cuscuta reflexa*, *Cleodendron inermi*, plumbago zeylanica are used to treat dandruff, psoriasis, eczema, scabies and other related skin diseases. Root bark of *Tephrosia purpuria* and *Boehavia diffusa* are used to cure stomach pains and anti-flatulent.

Powdered roots of *Barleria prionitis* and *Nerium oleander* are used as bronchiolytics and anti-inflammatory agents respectively (table 7).

Various parts of the under mentioned plants are utilized for an array of therapeutic activities as mentioned below in table 8, 9.

S. No.	Botanical Name	Family	Local Name	Part Used	Utilization
1	Barleria prionitis	Acanthaceae	Kala bansa		For the treatment of Bronchitis 10 gram of root powder soaked in water, filter it and take the filtrate twice in a day for one week.
2	Achyrenthes aspera	Amaranthaceae	Chirchita		Root paste is applied at scorpion bite point two to three times in a day give relief.
3	Nerium oleander	Apocynaceae	Safed Kaner		In severe inflammation powdered roots is apply.
4	Bombax ceiba	Bombaceae	Samel		Impotency can be cure from oral intake of root powder with milk
5	Raphanus sativus	Cruciferae	Muli		Fresh juice of muli helpful to cure syphilis and urinary problem
6	Butea monosperma	Fabaceae	Gulmohar		Palash roots powder are used to cure tuberculosis
7	Tephrosia purpurea	Fabaceae	Sarphankha	ъ.	Root bark juice are given orally to cure stomach pain
8	Boerhavia diffusa	Nyctaginaceae	Punarnava	Root	powdered root are macerate with water for overnight. Oral Intake of this liquid are useful to expel out the gas from stomach.
9	Withania somnifera	Solanaceae	Ashwagandha		Goat milk and root powder of ashwagandha are given up to 2 to three months for complete procurement of arthritis. Rice are not allowed in between the treatment.
10	Cuscuta reflexa	Convolvulaceae	Amarbel		Watery extract is applied in hair for removing the dandruff.
11	Plumbago zeylanica	Plumbaginaceae	Chetrak		Twice in a day two to five gram of paste on skin cure from the eczema and scabies
12	Clerodendrum inerme	Verbenaaceae	Bharangi		In the treatment of psoriasis and skin disease root paste are helpful

Table 8: Flower, Latex, Mucilage, Oil, Stem and Whole Plant Utilize by Practitioner as Traditional Medicine

S. No.	Botanical Name	Family	Local Name	Part Used	Utilization
		·			Flower (Male)smoke is useful to cure asthma and
1	Zea mays	Poaceae	Makka		after complete ignition ash is taken orally for the
				Flower	same
2	Madhuca latifolia	Sapotaceae	Mahuwa	1 10 1101	Mahuwa flower are used to prepare local daru
_	v	Supotaceae	Transa rra		(liquor)
3	Ficus	Moraceae	Bargad	_	White color latex is used for fixing of tooth, latex is
	benghalensis		8	latex	also given in the treatment of dysentery and diarrhea
			~		Paste of aloe leaves is useful for glowing skin. In
4	Aloe barbadensis	Lilaceae	Ghritkumari	Mucilage	combination with methi seeds are helpful to care hair
					loss.
5	Calotropis	Asclepiadaceae	Madar		Oil of madar are used to prevent hydrocele by
	procera	r			applying on the testis surface for over night
6	Sesamum indicum	Pedaliaceae	Til	Oil	For the treatment of bruises first apply the till oil then
					dry powder of ginger than ash of the aak.
7	Tinospora	Menispermaceae	Giloy	a .	For smooth delivery, stem (one kg) boiled with one-
	cordifolia	1		Stem	liter water and in that take one cup at delivery pain.
0	Azadirachta	3.6.11	N.		Leaves are boiled in water and cool.
8	indica	Meliaceae	Neem	****	Bath with this water is used to cure allergy. Bark
	4			Whole	paste also used to cure eczema
9	Argemone	Papaveraceae	Bharbanda	Plant	one to two-gram root powder are given orally to child
-	mexicana	T			for expel out the tape worm

Table 9: Use of Plant Parts by the Traditional Practitioner

S. No.	Plant Part	Use of Plant Part
1	Bark	5
2	Flower	2
3	Fruit	12
4	Latex	1
5	Leaves	23
6	Leaf and flower	1
7	Leaf Juice	1
8	Mucilage	1
9	Oil	2
10	Rhizomes	5
11	Root	12
12	Seeds	4
13	Stem	1
14	Whole Plant	2

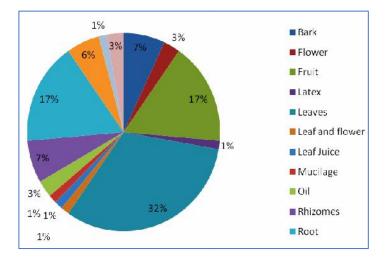


Fig. 3: Plant part used in percentage

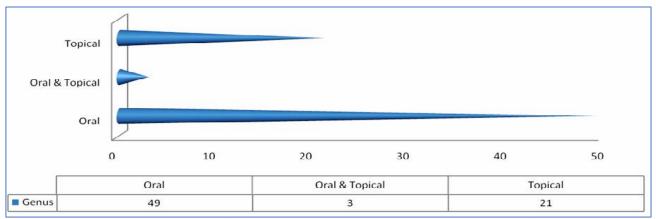


Fig. 4: Mode of Administration of medicinal plants

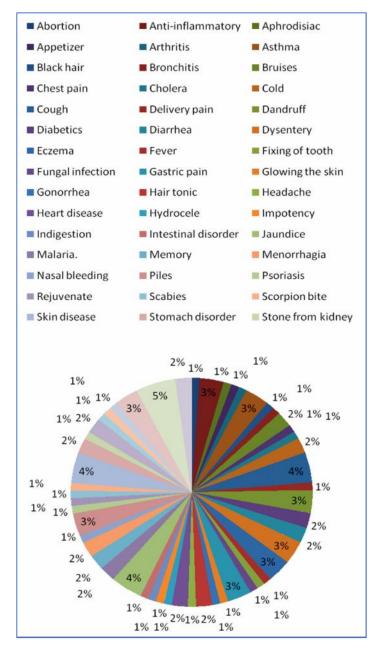


Fig. 5: Ethno-botanical Use of Plants

RESULTS AND DISCUSSION

List of plants were prepared by interviewing Vaidya, Hakim and local villagers. In the study area total seventy-two plants with forty-five families were found to be useful in curing various diseases. Euphorbiaceae and Fabaceae are the two families from which maximum number of plants is used. All the plant part used to cure the disease.

A list have been prepared on the basis of their part used like Bark (5), Flower (2), Fruit (12), Latex (1), Leaves (23), Leaf and flower (1), Leaf Juice (1), Mucilage (1), Oil (2), Rhizomes (5), Roots (12), Seeds (4), Stem (1), Whole Plant (2). Figure 3 give an idea that Traditional Practitioner mostly uses the Leaves (32%), Fruit (17%) and Roots (17%) for the treatment of Disease. Figure 4 explain the Mode of administration of medicinal plants, in which we have seen that the percentage of Oral root of administration is more other than the topical.

So, we can say most of the Vaidya and hakim are preferred to give dosage as in the form of powder and pills. Number of disease like Abortion, Allergy eczema, Anti-inflammatory, Aphrodisiac, Appetizer, Arthritis, Asthma, Brain tonic, Bronchitis, Bruises, Chest pain, Cholera, Cold and Cough, Dandruff, Delivery pain, Diabetics, Diarrhoea, Dysentery, Eczema, Fever, Fungal infection, Gastric pain, Glowing skin, Gonorrhoea, Headache, Heart disease, Hydrocele, Impotency, Indigestion, Inflammation, Intestinal disorder, Jaundice, Malaria, Memory, Menorrhagia, Nasal bleeding, Piles, Psoriasis, Rejuvenate, Scabies, Scorpion bite, Stomach disorder, Stone, Strengthening of gums, Swollen gums, Syphilis, Tooth fixing, Toothache, Tuberculosis, Urinary problem, Worms and Wounds are cure by these above mentioned medicinal plant.

CONCLUSION

This survey represents the contribution of natural flora of Ghaziabad District. The knowledge text out in the article collected from the vaidya, hakim and practitioners. Further investigation should be carried based on their safety parameters of plants use. This study indicate that traditional health care system is one of the old age practice area. In this article we tried to text out the information which is transmitted from one generation to another generation verbally. It is our duty to preserve this valuable knowledge of indigenous people of traditional healthcare system.

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