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Research Article

Traditional Uses of Medicinal Plants in Uttarakhand Himalayan Region Ram Prakash

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Abstract: The Himalayas have a great wealth of medicinal plants and traditional medicinal knowledge. Medicinal plants have played an important role of primary health care system among the local people of Himalayan region. The present paper is a study of the traditional knowledge of medicinal plants and its use by local people of Uttarakhand Region. It is a hill state in the Indian Himalayan region. Due to its unique geographical location and different climatic condition, it has rich biodiversity and variety of plant species. Medicinal plants are the principal health care resources among the most of people in India. Local people of this region are basically depends upon medicinal plants for their primary health care system. Their primary cure of diseases is based upon deep observation of nature and their understanding of traditional knowledge of medical practices. Local people in this region, especially tribal people and women heavily use these traditionally available medicinal plants for health and believe that these are easily available, less expensive and have no side effects as compare to modern medicine. The plants used for medicinal purposes in the primary health traditions are slowly becoming extinct due to development activities, population explosion, impact of tourism, deforestation and many more. The present paper focuses about the indigenous knowledge of different medicinal plants used in the Uttarakhand Himalayan region. Ethnomedicinal uses of 111 medicinal plant species along with botanical name, part used and mode of treatment are given in this paper.

Keywords: Medicinal Plants, Traditional Knowledge, Deforestation, Ethnomedicinal.

INTRODUCTION

The Himalayas have a great wealth of medicinal plants and traditional medicinal knowledge. Medicinal plants have played an important role of primary health care system among the local people of Himalayan region. As the local people are settled far from urban area, they cannot take modern health care facilities so they are totally dependent on traditional medicinal practices for their primary health care. Out of 15,000 species of flowering plants found in India, about 17% have their medicinal value [1-2] several species (1,745) are from the Indian Himalayan region, and many of these are found in Uttarakhand [3-4]. Local people of this region are partially or completely dependent on forest resources for medicine, food, and fuel [5] and medicinal species are steadily diminishing due to anthropogenic activities [6]. The Central Himalayan Region covers the new state (Uttarakhand) of India, provides admirable opportunities for studying the Traditional Knowledge Systems. Uttarakhand has a rich variety of herbs, medicinal and aromatic plant species. The Garhwal Himalaya is one of the richest floristic zones of India and contains more than 300 species of medicinal plants[5]. The ancient documentation of 67 medicinal plants in Hindu culture is found in the "Rigveda," which is thought to have been

written between 4,500 and 1,600 BC [7]. Collection and trade of medicinal plants to India is a historical fact.

The trade of non-timber jungle products is mentioned in the 3,000 years old Ramayan [8]. Similarly the *Urikshayarved* provides outstanding information about plants and their medicinal properties. The Charak and the Sushrut Samhitas were written between 700-200 BC, and contain accounts of the finding of medicinal plants [9]. India's natural forests are home to about 8000 medicinal plants that form the primary source of health care for 60-80% of the country's population, specially the rural people, tribal community and poor people. About 80% of traditional medicines used for principal healthcare are derived from plants(Fransworth). During the last few decades, there has been an increasing interest in the study of medicinal plants and their traditional use in different parts of the glob [10-12]. Documenting indigenous knowledge through ethnomedicinal studies is significant for the management and utilization of biological resources. The World Health Organization (WHO) suggested that as many as 80% of the worlds people depend on traditional medicine for their primary healthcare needs. There are significant economic benefits in the development of indigenous medicines and in the use of medicinal plants for the cure of various diseases [13].

GEOGRAPHY OF UTTARAKHAND

Uttaranchal (Uttarakhand) is 27th state of the republic of India. It was formed on November 9, 2000, which was carved out of Uttar Pradesh. It is a hilly state, having international borders with china (Tibet) in the north and Nepal in the east. On its north-west lies Himanchal Pradesh and while on the south is Uttar Pradesh. It occupies an area of 53,483sq km. This state lies between 28°53'24"-31°27'50" N and 77°34'27"-81°02'22" E. Of its total geographical area, about 47, 325 sq km is covered by mountains. There are Four major river systems viz. Ganga, Yamuna, Ramganga & Sharda originating from the state along with their tributaries which are major source of water for drinking, irrigation and hydropower. The major wealth of the state is its forests with very rich biodiversity. The state ranks sixth

among the other states in terms of percentage of recorded forest area According to Census of India, 2011, Uttarakhand has a total population of 101.17 Lakh with a decadal growth rate of 19.17 percent for the year 2001-11. Out of total population, 51 percent are males while 49 percent are females. The population density of the state is 189 persons per sq.km while the literacy rate is 79.6 percent which is higher than the national average of 74%.

METHODOLOGY

The data was collected through secondary sources mainly from the website of Government of Uttarakhand, State Medicine Plant Board of Uttarakhand and Forest department of Uttarakhand. References from research papers, books, articles and news paper were taken for interpretation of data.

MEDICINAL PLANTS AND ITS USES IN TRADITIONAL MEDICINAL PRACTICES MEDICINAL PLANTS

S. No	Botanical Name	Local Name	Parts Used	Uses	Mode of treatment
1	Capsella bursa- pastoris, Moench.	Torighash	Whole p lant	For Sikka Rog	Two palmful whole plant decoction in water given two times for vigor
2	Cardamine <i>impatiens</i> , Linn.	-	Whole p lant	For Tantrka in calf	One palmful whole plant decoction in one liter water given two times for vigor
3	Viola <i>biflora</i> , Linn.	Banpansa	Whole p lant	In calf for heart & faint problem	Two palmful whole plant two times a day for attack. Three/four parts of two palmful whole plant & a spoon honey given two times for heart & skin problem
4	Viola <i>patrinii</i> , DC	-	Root	For liver	Two palmful root decoction in one liter water given two times for vigor
5	V.serpens, Wall.	-	Root	For Liver	Two palmful root decoction in one liter water given three times with honey
6	Hypericum cernum,	Vaya, Culi	Whole p lant	For Hoskins, For wound	Two palmful whole plant decoction in one liter water given two times for vigor
7	Linum <i>usitatissinum</i> ,Li nn.	Alsi	Whole p lant	For strength	Two palmful whole plant decoction in 1& 1/4 liter water given two times for strength
8	Melilotus <i>alba</i> , Lamk.	Banmethi	Whole p lant	For stomach problem and Indigestion	One palmful whole plant given three times in a day for vigor
9	Trifolium repens, Linn.	Garila	Whole p lant	For Satrika	Four palmful whole plant given two times a day
10	Agrimonia <i>pilosa</i> , Ledeb.	Kafliya	Whole plant	For purification of blood	Half palmful whole plant decoction in three/ four liter water given one fourth part with gur in morning
11	Fragaria vesca, Linn.	Pudalia Kafal	Leaf	To protect abortion	Two palmful leaves given daily
12	Potentillaargyrophylla,	Danti, Brajdanti	Leaf/Roo t	For stomach problem	One palmful leaves/two matured root decoction in 3/4 liter water

L	1				given thrice in a day.
13	Rhamnus <i>virgata</i> , Rox b.	Chaitula	Fruit	In Leg swelling	Five matured fruit decoction in ¼ liter water given daily
14	Rosa moschata, Herrm.	Kunj pani	Fruit	For leucorrhea, bleeding, Pregnancy termination.	Two palmful fruit with one spoon honey given daily
15	Rubus paniculatus,Sm.	Kala Hisalu(Kadula)	Leaf	In pregnancy	Two palmful leaves decoction in ½ liter water given its one cup twice a day
16	R. lasiocarpus, Sm.	Kala Hisalu	Leaf	In pregnancy	Leaf is useful for cow specially in pregnancy pain
17	Bergenia <i>ciliata</i> , Moench.	Silfhora	Root	For Hydrophobia	Two palmful root decoction in ½ liter water given its one cup thrice a day
18	Ribes grossularia,Linn.	Caktu	Whole plant	For preventing abortion	One palmful whole plant given daily
19	Punica granatum, Linn.	Darim	Skull of fruit	As antimicrobial s	One palmful skull of fruit decoction in ½ liter water given its one cup three times a day with gur
20	Woodfordia <i>floribunda</i> , Salisb.	Dhow	Flower	As energy syrup	One palmful dry flower decoction in water is useful for animals
21	Centella <i>asiatica</i> , (Linn.)Urban	Brahmi	Leaf	For brain fever	Apply Paste of green leaves on forehead during fever
22	Cuminum cyminum, L.	Jeera	Seed	For indigestion	One palmful seed in ¼ liter water given daily
23	Foeniculum <i>vulgare</i> , Mill.	Saup	Seed	For Hookworm	One palmful seed in 1/8 liter water given before morning meal
24	Pimpinella <i>diversifolia</i> , Dc	Dhanjari	Seed	For Lactation	One palmful seed given daily
25	Abina <i>cordifolia</i> , Hook. F	Haldu	Bud& leaf	For Wound & fever	Applying paste of new bud on the wound. Decoction of leaves in ½ liter water given thrice a day in fever
26	Valeriana hardwichii, wall.	Samyo, Dhup	Root	For titaini	Four matured root decoction in two liter water given ¼ liter twice a day
27	Aesculus <i>indica</i> , Coleb r.	Pangar	Fruit	In stomach problem	One palmful fruit decoction in ½ liter water given with gur
28	Artemisia <i>maritime</i> ,Lin n.	-	Bud/Le af	For Indigestion	One palmful bud/leaves decoction in one liter water given one cup daily
29	A. <i>nilagiric</i> a, Pampanini.	Patti,Kunj	Whole Plant	For urinary tract infection	One palmful whole body decoction in one liter water given one cup with gur
30	Artemisia <i>parviflora</i> , Roxb.	Patti, Dhopani	Leaf/ Bud	For round worm	One palmful leaves/ bud decoction in a liter water given 1/8 liter in one hour interval
31	A. sacrorum, Ladeb.	Kapar Patti,Jholpatti	Leaf/Bud	For hair fall	One palmful leaves & bud decoction in two liter water given one cup twice a daily

32	Seneciochrysanthemoid	Ratpatia	Whole	For skin	Two palmful whole plant
	es, DC.		plant	disease	decoction in 3/4 liter water
33	S. rufinervis, DC.		Seed	For wound	given one cup daily Three palmful seed given twice
33	S. rujinervis, DC.	-	Seed	For would	a daily
34	G. pretense, Linn.	Chalmori	Whole	In fever,	Two palmful whole plant
			plant	urine	decoction in 3 /4 liter water
				problem, eye	given one spoon thrice daily
				problem	
35	Tanacetum nubigenum,	-	Leaf/	As energy	One palmful leaves/
	Wall.		Fruit	syrup, anti	fruit decoction in one liter water
				microbes.	given one spoon with honey
36	Lobelia pyramidalis,	Bran tambacoo	Whole	For liver	Two palmful whole
	Wall.		Plant	disease	body decoction in 3 / 4 liter
					water given one spoon with honey thrice a daily
37	Anagallis arvensis,	Vish Khaparia	Fruit/Lea	As pain	Two palmful fruit/ leaves given
	Linn.	_	f	killer	daily
20	D: 1	X7' 1 X71 '	T. C.	T .	m 1 617
38	Primula <i>denticulate</i> , Sm ith.	Vish Khaparia	Fruit	In cough, useful for	Two palmful flower given with
	IUI.			mammary	gur
				glands	
39	P. macrophylla, D.	-	Whole	As painkiller	This plant works as painkiller
	Don.		Plant		
40	Holarrhenaantidysenter	Quiar, Indraw	Seed &	In fever,	One palmful powder of bark/
	ica, Wall.		bark	Gastric &	seed decoction in one liter water
41	Calotropis <i>procera</i> , R.	Ank	Root	dysentery In	given one cup with gur One palmful powder
41	Br.	Alik	Koot	indigestion	of root decoction in one liter
	D1.			margestron	water given one cup twice a day
42	Gentiana tenella,(Roltb	Kutuki, Katuwi	Fruit	In hysteria,	25g of bark of fruits decoction
) H. Smith.			In weakness	in one liter water given one cup
43	Swertia purpurascens,	Ciraita	Whole	In fever, In	with honey per day Two palmful whole plant
13	Wall.	Ciraita	Plant	weak	decoction in one liter water
				appetite.	given one cup thrice a day
44					
	Capsicum annum, Linn	Khusane, Marac	Fruit	As oil	One palmful fruit decoction in
**	Capsicum annum, Linn	Khusane, Marac	Fruit	As oil massage.	three liter water gives one cup
				massage.	three liter water gives one cup twice a day
45	Capsicum <i>annum</i> , Linn . Datura <i>metal</i> , Linn.	Khusane, Marac Dhatura	Fruit Seed	massage. As pain	three liter water gives one cup twice a day 25g roasted seed in one liter oil
				massage.	three liter water gives one cup twice a day
			Seed	massage. As pain killer (for	three liter water gives one cup twice a day 25g roasted seed in one liter oil is used for massage
	Datura <i>metal</i> , Linn. Hyoscyamus <i>niger</i> ,		Seed Leaf &	As pain killer (for external use only) As pain	three liter water gives one cup twice a day 25g roasted seed in one liter oil is used for massage Paste of leaves and seed is used
45	Datura <i>metal</i> , Linn. Hyoscyamus <i>niger</i> , Linn.	Dhatura Bran juwan	Seed Leaf & Seed	As pain killer (for external use only) As pain killer	three liter water gives one cup twice a day 25g roasted seed in one liter oil is used for massage Paste of leaves and seed is used as ointment
45	Datura <i>metal</i> , Linn. Hyoscyamus <i>niger</i> , Linn. Digitalis <i>purpurea</i> ,Lin	Dhatura Bran juwan Prawasit	Seed Leaf &	As pain killer (for external use only) As pain	three liter water gives one cup twice a day 25g roasted seed in one liter oil is used for massage Paste of leaves and seed is used as ointment One palmful leaves is roast with
45	Datura <i>metal</i> , Linn. Hyoscyamus <i>niger</i> , Linn.	Dhatura Bran juwan Prawasit Degitelis	Seed Leaf & Seed	As pain killer (for external use only) As pain killer	three liter water gives one cup twice a day 25g roasted seed in one liter oil is used for massage Paste of leaves and seed is used as ointment
45 46 47	Datura <i>metal</i> , Linn. Hyoscyamus <i>niger</i> , Linn. Digitalis <i>purpurea</i> ,Lin n.	Dhatura Bran juwan Prawasit Degitelis tilpushpi	Seed Leaf & Seed Leaf	As pain killer (for external use only) As pain killer In burning	three liter water gives one cup twice a day 25g roasted seed in one liter oil is used for massage Paste of leaves and seed is used as ointment One palmful leaves is roast with oil is used as ointment
45	Datura <i>metal</i> , Linn. Hyoscyamus <i>niger</i> , Linn. Digitalis <i>purpurea</i> ,Lin	Dhatura Bran juwan Prawasit Degitelis	Seed Leaf & Seed	As pain killer (for external use only) As pain killer	three liter water gives one cup twice a day 25g roasted seed in one liter oil is used for massage Paste of leaves and seed is used as ointment One palmful leaves is roast with oil is used as ointment One palmful leaves decoction in
45 46 47	Datura metal, Linn. Hyoscyamus niger, Linn. Digitalis purpurea,Lin n. Verbascum thapsus,	Dhatura Bran juwan Prawasit Degitelis tilpushpi	Seed Leaf & Seed Leaf	As pain killer (for external use only) As pain killer In burning	three liter water gives one cup twice a day 25g roasted seed in one liter oil is used for massage Paste of leaves and seed is used as ointment One palmful leaves is roast with oil is used as ointment
45 46 47 48	Datura metal, Linn. Hyoscyamus niger, Linn. Digitalis purpurea,Lin n. Verbascum thapsus, Linn.	Dhatura Bran juwan Prawasit Degitelis tilpushpi Akalvir	Seed Leaf & Seed Leaf Leaf	Massage. As pain killer (for external use only) As pain killer In burning In bronchitis	three liter water gives one cup twice a day 25g roasted seed in one liter oil is used for massage Paste of leaves and seed is used as ointment One palmful leaves is roast with oil is used as ointment One palmful leaves decoction in 3/4 liter water given one cup thrice a day
45 46 47	Datura metal, Linn. Hyoscyamus niger, Linn. Digitalis purpurea,Lin n. Verbascum thapsus,	Dhatura Bran juwan Prawasit Degitelis tilpushpi	Seed Leaf & Seed Leaf	As pain killer (for external use only) As pain killer In burning	three liter water gives one cup twice a day 25g roasted seed in one liter oil is used for massage Paste of leaves and seed is used as ointment One palmful leaves is roast with oil is used as ointment One palmful leaves decoction in 3/4 liter water given one cup

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Benth. Plant Plant Plant Plant Plant decoction in ½ liter water given one spoon with honey thrice a day	55	Scutellaria angulosa,	Karuijhar	Whole	In acidity	One palmful whole
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Section Sect						thrice a day for fever
Section Sect	58	P. orata, Forsk.	Esabgol	Seed	In dysentery	One palmful seed in ½ liter
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Linn. Plant Problem liter water is useful in teeth problem			CI. 1.	***** 1		0 1 61 1 1 1 1 1 1
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	67	Litsaea polyantha, Juss.	Cirira	Leat	in injury	
68 L. <i>umbrosa</i> , Ness. Circira Leaf In bone Paste of leaves in water as		1 -			<u> </u>	
	68	L. <i>umbrosa</i> , Ness.	Circira	Leaf	In bone	Paste of leaves in water as

				injury	ointment in bone injury
69	Viscum album, Linn.	Bana	Fruit	In pregnancy problem	Six fruits with milk twice a day
70	Emblica <i>officinalis</i> ,Gaer tn.	Aula, Awla	Fruit	In eye disease/ good health	Two palmful fruits powder with fibrous food
71	Euphorbia <i>prolifera</i> , Buch. Ham.,ex.Don.	Duwila	Fruit	Used in dog bite	Powder of fruit is useful
72	Mallotus <i>philippinensis</i> , Muell. & Arg.	Roli, Kasela	Fruit	To protect from worm	Fruit extract with one palmful fibrous food is given once a day
73	Ricinus <i>communis</i> , Linn.	Erind	Leaf	For internal injury	Oil of this plant is useful. Use of leaves in heat therapy
74	Betula <i>utilis</i> ,Don.	Bhuj, Bhojpatra	Seed	To protect from worm	Two small pinch is useful
75	Quercus dilatata, Lindl.	Banj	Bark	In dysentery	Two palmful powder of bark decoction in one liter water given one cup twice a day
76	Q. semecarpifolia, Sm.	-	Bark	In dysentery	Two palmful bark powder decoction in one cup water given twice a day
77	Salix elegans, Wall.	Garbainsh	Fruit	In rickets	Three palmful fruits decoction in one liter water given one cup thrice a day
78	Ephedra gerardiana, Wall.	Gidjing	Stem	In pain	One bunch of stem pieces decoction in 2 liter water given one cup in early morning
79	Juniperus <i>communis</i> ,Li nn.	Jhora, khichiya	Fruit	In liver disease	Twelve fruits daily
80	Abies webbiana, Lindl.	Raisal barmi radha	Bud	In Cough	One palmful bud decoction in 3 liter water given thrice a day
81	Cassoa absus, Linn.	Banar, Chakwar	Seed	In urine problem	One palmful seeds decoction in ½ liter water given one cup thrice a day
82	Satyrium nepalense, D. Don.	-	Root	As tonic	Two palmful roots decoction in 3 / 4 liter water given ½ parts twice a day
83	Zingiberofficinals	Banhaldi	Root	Internal injury, As anti worm	Paste of root
84	Cureuma angustifolia, Roxb.	Banhaldi	Root	In gastric problem, anti worm	Paste of root
85	Acorus calamus, Linn.	Banj	Root	Fever, pain	Two matured root with fibrous food given daily
86	Allium <i>stracheyi</i> ,Baker .	Jambu	Whole Plant	For stomach problem	Two palmful whole plant given thrice a day
87	Allium wallichii, Kunth.	Jangali Lasun	Root	In infection	Two node given daily
88	Asparagus racemosus, willd.	Kairuwa	Bud	In liver problem & To enhance Lactation	One palmful bud given twice a day
89	Aloe vera, Linn.	Patquar	Leaf	Stomach problem	Juice of leaves given ½ cup a day
90	Adiantum venusthum,G	Hanshraj	Seed	For Chest	One palmful seed given with

	. Don.			problem and hair fall	fibrous food
91	Equisetum arvense, Linn.	Horsetel	Whole plant	For urinary problem	Half palmful whole plant decoction in one liter water given
92	Althaea officinalis, Linn.	Jangalihauli	Root	For termination of pregnancy	Three/ four matured root decoction in one liter water is given
93	Reinwardtia <i>trigyna</i> , Planch.	Pyuli	Root	In wound	One bunch of root decoction in ½ liter water given one cup in a gap of two days
94	Tagetes arecta, Linn.	Hazari	Fruit	In vomiting, In healing wound	One palmful fruit is given with fibrous food at the time of vomiting. Its external use is in filling wound
95	Calendula <i>officinalis</i> , Linn.	Ganda(Tokar)	Leaf	In bleeding	Juice of leaves is helping in bleeding
96	Atropa <i>belladonna</i> , Linn.	Dhatur Jahar	Leaf	In injury as pain killer	Paste of one palmful leaves burns in oil acts as ointment
97	Datura stramonium, Linn.	Dhatura	Leaf	In injury as pain killer	Paste of one palmful leaves acts as ointment
98	Urtica dioica, Linn.	Sisauna	Leaf	Skin disease, For lactation	One palmful leaves is given with fibrous food in 1h interval
99	Juglans regia, Linn.	Akhore	Leaf/ fruit	In stomach problem, As anti worm	Two palmful leaves or two green fruits decoction in 1 liter water is given one cup with two spoon honey thrice a day
100	Hedychium spicatum,Ham.ex. Smith	Kapur Kachari	Root	For fever & cough	Root is given with gur
101	Canna indica, Linn.	Kewara	Root	In disinterest, In afra	Powder of one bunch of root is given with gur
102	Anemona <i>obtusiloba</i> D on.	Kakaria	Leaf	In sinus	A cotton bud is made of Paste of leaves with Ghee for cleaning sinus
103	Delphinium <i>denudatum</i> , Wall	Nirwishi, Munel	Seed	In tics	One palmful seed decoction in ½ liter water is given
104	Aconitum balfouria, stapf.	Bishjahar	Root	In wound	One matured root burns in one liter oil gives a ointment
105	Paeonia emodi, Wall.	Bhoi Pawin	Root	In stomach problem	One matured root decoction in 3 / 4 liter water is given one cup with 100g gur thrice a day
106	Berberis aristata, DC	Kilmori	Root & stem	In fever, weakness	One palmful root/ stem decoction in ½ liter water given one cup daily
107	Fumaria <i>parviflora</i> ,La mk.	Pitpapara	Whole plant	In skin etching(disea se)	One palmful whole plant decoction in one liter is given
108	Brassica napus, Linn.	Kali sarso	Seed	In poor appetite	Two palmful seed is given with fibrous food and gur twice a day
109	Geranium <i>ocellatum</i> , Camb.	Bhiljari	Whole plant	As insecticide	Four whole plant with fibrous food twice a day. Powder of whole plant is given as insecticide

110	Acacia <i>catechu</i> , Wild.	Khair	Stem	In Urine problem, dysentery	One palmful stem decoction in ½ liter water given one cup four times a day
111	Butea frondosa, Koen.	Dhank	Flower, Seed	As painkiller	Paste of flower and seed is given

Medicinal plants have strong acceptance in spiritual activities of north Indian inhabitant communities, who worshiped the plants in the form of god, goddesses, and minor deities [14]. Due to the unavailability of modern health facilities, poverty, connectivity with urban centre, awareness, etc. people in rural areas are still relying on traditional medicines for their health care. Many communities use wild plant parts for the primary healthcare, due to belief in its effectiveness, easily available, lack of modern medicines. Apart from human use, many plant species were also used in animal husbandary as the primary source of healthcare [15-16]. United nations University proposal defines traditional knowledge system as "traditional knowledge or 'local knowledge' is a record of human achievement in comprehending the complexities of life and survival in often unfriendly environments. Traditional knowledge may be technical, social, organizational, or cultural was obtained as part of the great human experiment of survival and development." Traditional knowledge provides the basis for problem-solving strategies for local communities, especially the poor. Diseases are the curse of civilization ever since its advent on this planet. Humans have been struggle against a variety of diseases since ancient periods. Finally humans developed a native system of medicine. For millennia human societies have been depending on forest and forest products like medicinal plants, aromatic plants, edible roots, food and many other things for their livelihoods as well as primary health needs. In certain areas these folk medical prescriptions are widespread and have survived through ages from one generation to the next generation through the word of mouth. They do not exist as on paper knowledge. Normally these systems of medicine depend on old people's experiences and practices.

CONCLUSION

The Uttarakhand Himalayan people have a close relationship with nature. They are fully dependent upon forest for food, fruits, fodder, and medicinal plants for their healthcare. Local people in this region, especially older age people, tribal people and women heavily use these traditionally available medicinal plants for health and believe that these are easily available, less expensive and have no side effects as compare to modern medicine The present situation of traditional knowledge regarding to medicinal plants everywhere is an issue of deep anxiety as the traditional knowledge is gradually declining and disappearing from the countryside. Due to the deforestation, impact of tourism on natural vegetation of this region, population explosion & heavily construction of this region for development and changing of climate in Himalayan region and many more to responsible for its. We have to make proper policies and do implement these to conserve the forests and medicinal plants. Farmers and local people should be involved in the cultivation of medicinal plants at least on their barren and fallow land.

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