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# ATTITUDE OF PEOPLE TOWARDS USE OF MEDICINAL PLANTS IN DISTRICT BANDIPORA OF KASHMIR VALLEY

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### ABSTRACT

Jammu and Kashmir state is divided into 22 districts. Kashmir and Jammu division consists of 10 districts each whereas Ladakh division consists of 2 districts. Bandipora district located on the banks of Wular Lake was chosen for the study. Plants have been traditionally used for hundreds of years throughout world as a source of medicine. Forest resources have played the most significant role in the economy of the state of Jammu and Kashmir. In this paper, we examine the attitude of people towards the use of medicinal plants in district Bandipora of Kashmir valley using a well designed and validated questionnaire to collect the information from a sample of 400 people selected with the help of stratified random sampling technique. The results obtained from our study using standard statistical tools reveals that people under study show positive attitude towards the use of medicinal plants. Further, it is noticed that due to less expenditure and lack of medical facility they are encouraged by elders of the locality to use medicinal plants. It is concluded from our study that there is an urgent need of giving mass awareness on importance of forests and medicinal plants to the people of Kashmir valley. Finally, suggestions were given which definitely help in conservation of the fast eroding precious medicinal plants of the Kashmir valley of Jammu and Kashmir State.

Keywords: Bandipora, Attitude, Medicinal plants, Forests, Kashmir Valley, Statistics.

#### **1. INTRODUCTION**

The Jammu and Kashmir state has the total geographical area of 2,22,236 sq km and out of this area 1,20,849 sq km (54.4%) is under the occupation of Pakistan and China. It is reported that 22,230 sq km of land were under forest in the undivided state of Jammu and Kashmir. In this paper, we chose the study area Indian Administered Kashmir which consists of three divisions i.e., Jammu division, Kashmir division and Ladakh division. Kashmir and Jammu divisions consists of 10 districts each whereas Ladakh division consists of 2 districts. In Kashmir valley out of 10 districts Bandipora district located on the banks of Wular Lake, one of the largest freshwater lakes in Asia was chosen for the present study. The district has three tehsils, viz. Gurez, Sonawari and Bandipora. In 2011 census, Bandipora had population of 392,232 of which male and female were 207,680 and 184,552 respectively. We chose this district for our study as the area is rich in medicinal plants and people encourage to use traditional method of treatment for different ailments. Plants have been traditionally used for hundreds of years throughout globe as a source of medicine. Medicinal plants are a valuable natural resource and regarded as potentially safe drugs. They have been playing an important role in alleviating human sufferings by contributing herbal medicines in the primary health care systems of rural and remote areas where more than 70% of the population depends on folklore and traditional systems of medicines. Man since pre-historic times has always made use of plants to alleviate sufferings and diseases affecting humans and their domestic animals. A study (Shreestha & Dhillion, 2003) reveals that 80% of the world population rely on traditional healthcare system. The system of ethno-medicine is safe, therefore, it is encouraged and is low cost therapy for treating various ailments. The reason for the popularity of medicinal plants is due to the high cost and side effects of allopathic medicines. The present study in view of the various studies conducted earlier in the Kashmir valley (e.g., Ara 1992, Nawchoo 1995, Kaual 1997, Bhat 2012, Geelani al 2017) was conducted in Badipora district a well known region for the growth of medicinal plants with an aim to know the attitude of people towards use of medicinal plants. Treatment using medicinal plants is less costly as compared to modern medical treatment so poor people especially people living in rural areas prefer this treatment. The various studies conducted in Kashmir valley reveal that people of Kashmir valley show positive attitude towards the use of use the medicinal plants for the treatment of various diseases (Geelani, et al 2017). Amrik Singh Sudan and Harmeet Kour (2016), Parvaiz et al (2016) in their studies show that there is a need to carry out research on the topic awareness among people on the traditional use of medicinal plants in Kashmir valley. In this paper, an attempt has been made with an objective to assess the use and attitude of people of District Bandipora of Kashmir valley. In the light of the previous literature (Amrik Singh Sudan and Harmeet Kour 2016; Parvaiz et al 2016, Geelani et al, 2017), the plants used as medicine in Kashmir valley are presented with botanical name, local name, family, parts used and uses as under:

List of plants used as ethano-medicine in Kashmir valley

S.	Taxon Name	Local Name	Family	Part Used	Ethanomedicine
No.					Uses
1	Aconitum heterophyllum	Paewakh	Ranunculaceae	Root	Antidote for snake bites
2	Achilleamillefolium	Berguer.	Asteraceae	Rhizome.	Headache. Cough.
-	Tennedininejonum	Pahal	Tisteraceae	Leaves	Tooth ache
		gassesh			
3	Arnebiabenthamii	KahZaban	Boraginaceae	Rhizome	Common Cold,
			8		Cough, Fever,
					Blood purifier
4	Acoruscalamus	Via-gander	Acoraceae	Rhizome	Stomachic, Diarrhea,
		E .			Cough,
					Swellings, Joint pain
5	Coriandrumsativum	Danival	Apiaceae	Seeds	Hair fall
6	Artemesiaabsenthium	Tethwan	Asteraceae	Leaves	Obesity, Diabetes,
					Liver infection
7	Cotulaanthemoids	Bobul	Asteraceae	Roots	Constipation
8					Back pain, Common
	Taraxacumofficinale	Hand	Asteraceae	Roots	cold, Chest infection
9	Trigonellafoenum-				
	graecum	Meth	Fabaceae	Seeds	Back Pain
10					Muscular strength and
	Arisaemajacquemontiana	Hapatmakei		Rhizoem	Skin infections
11				Leaves,	ear-ache, blood
				seeds and	purifier, scabies and
	Cannabis sativa	Bhang	Cannabinnaceae	stem	piles
12				Whole	Joint pains, Wound
	Cascutareflexa[4,10]	Kukliporte	Cuscutaceae	Plant	healing
13					Falling of Hairs.
				Roots,	Indigestion,
	Berberis lyceum	Kawdach	Beriberidaceae	Fresh fruit	Constipation
14		~		Seeds,	
		Gurisochol,		roots and	Abdominal cramps,
	helioscopa[40,22,23]	Gandibooti	Euphorbiaceae	latex	cholera and eruptions
15				Stem,	
	<b>F 1 1 1 1 1 1 1 1 1 1</b>	Guri-dud/		leaves,	Skin diseases and
1 -	Euphorbia wallichia	Harbi	Euphorbiaceae	latex	Asthma
16	<b>.</b>		D.1	Whole	<b>T</b> •
	Iris kashmiriana	Mazarmund	Ridaceae	pllant	Joint disease

17					Opthalimic
					infections, Urinary
	Dioscoreadeltoidea	Kraeth	Discoreaceae	Leaf	infections
18					Mumps, Skin
					irritation in pregnant
	Laveterakashmeriana	Sozposh	Malvaceae	Flower	women
19					Cough, Fever, Eye
	Malvasylvestris[4,10,28]	Sotal	Malvaceae	seeds	sight
20	Papaver				
	somniferum[4,10,33]	Kashkhas	Papaveraceae	Fruit	Dry Cough, Diarrhea
21	Datura				Rheumatism, Frost
	stramonium[4,29,30]	Datur	Solanaceae	Seeds	bite,Toothache,Tonic
22				Leaves and	
	Urticadioca	Soi	Urticaceae	Roots	Rheuatism
23				Whole	Laxative and
	Viscum album	Aal	Loranthaceae	plant	Fractures
24				Stem,	Birthrate control
				milky latex,	Insect bite and Warts
	Ficuscarica	Anjeer	Moraceae	fruit pulp	
25				Seeds and	General weakness
	Pinusroxburghii	Chad	Pinaceae	gums	after child birth
26	Rosa webbiana	Gulab	Rosaceae	Flowers	Cough and Colds.
27				Roots and	Cough. and
	Atropaacumniata	Chellalubbar	Solanaceae	leaves	Antispasmodic
28				Leaves and	Intestine complaints
	Berginialigulata	Zakhmihayat	Saxifraceae	roots	and Stomach ulcers
29				Leaves,	
				seeds and	
	Viola odorata	Bunufsha	Violaceae	flowers	Respiratory problems
30	Nasturtium officinalle	Kulhak	Brasicaceae	Leaf	Stomachic
31	Hyoscyamusniger	Bazarbang	Solanaceae	Seed	Tooth ache
32					Headache, Fever,
	Prunellavulgaris	kulwauth	Lamiaceae	flower	Muscular pain
33					Fever, Head ache,
	Salix wallichiana	Danthiveer	Salicaceae	Leaves	Genral body pain
34					Joint pain, Back pain,
					sole Ulcers,
					Dysentery, Fever,
	Saussureacostus	Kuth	Asteraceae	Rhizome	Urinary problems
35					Skin infection,
	Stellaria media	Losdhi	Caryophyllaceae	Seed	Allergy

36					Typhoid, Whooping
	Viburnum grandiflorum	kulmanch	Caprifoliaceae	Seed	cough
37					Skin rashes, Sores,
	Vitisvinifera	Daech	Vitaceae	Leaves	Eruptions
38	Zizyphusmauritiana		Rhamnaceae	Leaves	Skin rashes
39				Whole	
	Cynodondactylon	Daraunm	Poaceae	plant	Common cold
40					Respiratory disorders,
					Chest infections,
	Corydalis govianiana	Sangi-harb	Fumariaceae	leaves	Asthama
41					Antidote for snake
	Aconitum voilacium		Ranunculaceae	Root	bites
42	Androsacerotundifolia	Uzmposh	Primulaceae	Rhizome	Cataract
43	Anemone obtusiloba	Srub	Ranunculaceae	Seeds	Rheumatism
44	Aquilegia fragrans	Daduejaid	Ranunculaceae	Flowers	Indigestion
45				Leaves,	Skin disease, Boils,
	Arctiumlappa	Phughood	Asteraceae	root	Body pain
46					Toothache,
				whole	Rheumatism, Female
	Asparagus officinalis	Parglas	Liliaceae	plant,roots	infertility
47				Whole	
	Cardamine impatiens	Pahal-laish	Brassicaceae	plant	Asthma, Hay fever
48					Rheumatism Sore
	Cichoriumintybus	Kazal-Handh	Asteraceae	Root	throat jaundice
49		Pugsley,		Whole	Dyspepsia,
	Fumariaindica	Shahtaur	Fumariaceae	plant	Rheumatism
50	Impatiens glandulifera	Trul	Balsaminaceae	Leaves	Skin burn, Joint pain
51				Whole	
				plant,	
				leaves	
	Lamium album	Poshkar	Lamiaceae	flowers	Cough, Metrorrhagia,
52				Whole	
				plant,	
	Nepetaraphanorhiza	Vangogil	Lamiaceae	leaves	Dysentry, Toothache
53					Toothache,
					Convulsions,
				Whole	Bloodpurification,
	Oxalis corniculata	Tsok-tsen	Oxalidaceae	plant, leaves	Diarrhoea
54					Rheumatic pain,
					Wounds, Dislocated
	Rheum emodi	Pambechalan	Polygonaceae	Leaves	joints, Boils

55					Stomachache,
	Rubiacordifolia	Rubes	Rubiaceae	Roots	Jaundice
56				Root,	Chest congestion,
	Sambaucuswightiana	Hapatfal	Caprifoliaceae	leaves	Boils
57				Leaves,	Dermatitis,
	Seneciograciliflorus	Mongol	Asteraceae	flowers	Stomachache
58	Verbascum Thapsus	Wantamook	Scrophulariaceae	Flowers	Cough, Pneumonia
59	Angelica glauca	Choora	Apiaceae	Root	Vomiting
60				Stem,	Ulcer, Colic and
	Ajugabracteosa	Kauri booti	Lamiaceae	leaves	Jaundice
61					Stomachache and
	Gentianakurroo	Desibangara	Gentianaceae	Root	Urinary infections
62				Whole	
	Artmisia absinithium	Tethwan	Astraceae	plant	Chronic fever, Gout
63	Gallium aparine	Loothar	Rubiaceae	Leaves	Jaundice, Antiseptic
64					Astringent, Dysentery
	Geumelatum	Shoonkar	Rosaceae	Root	and Diarrhoea
65					Antiperiodic,
					Antitussive
					expectorant and
	Gnaphalium affine	Janglidodal	Asteraceae	Leaves	Febrifuge
66					Expectorant, Healing
					wounds, Treating
	Hackelia uncinatum	Neelaan	Boraginaceae	Flowers	tumors
67					Internal body
	Indigoferaheterantha	Jandi	Leguminosae	Leaves	disorders
68					Astringent,
					Emollient,
					Expectorant,
	Tussilagofarfara	Bann Hulla	Asteraceae	Leaves	Stimulant and Tonic
69	Betulautilis	Bhuz	Betulaceae	bark	Antiseptic
70	Rhodiolahimalensis	Dandjari	Crassulaceae	bark	Infection of teeth
71	Juniperuscommunis	Bithur	Crassulaceae	Leaves	Rheumatism,
72	Glycyrrhiza glabra	Shanger	Fabaceae	Root	Cough, Hepatitis
73	Morinalongifolia	Kim	Dipsacaceae	Roots	Insecticide
74					Tooth infection,
					scrofula, Rickets and
	Juglansregia	Doan kul	Juglandaceae	Leaf, Bark	leucorrhoea
75					Narcotic effect,
	Phytolaccaacinosa	Brand	Phytolaccaceae	Root	Sedative
76	Abiespindrow	Sal	Pinaceae	bark	Rheumatism

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77					Skin rashes and
	Cedrusdeodara	Divdar	Pinaceae	Stem, Bark	External ulcers
78	Punicagranatum	Daankul	Punicaceae	Seed	Jaundice and
					Anaemia
79	Sambucuswightiana	Kown	Sambucaceae	roots,	Diuretic, Purgative
				leaves	
				and berries	
80	Picrorhizakurrooa	Kour	Scrophulariaceae	Roots,	Fever, Appetizer
				Rhizome	
81	Podophyllumhexandrum	Banwangun	Berberidaceae	leaves and	Skin diseases, Gastric
				roots	problems
82	Amaranthus caudatus	Leesa	Amaranthaceae	Whole	Expectorant, Fever
				plant	
83	Cydonia oblonga Mill	Bumchuont	Rosaceae	Seed, Fruit,	Constipation, Birth
				Flower	problems, Jaundice,
					Blood purifier,
					General body
					weakness, Asthma

### 2. MATERIALS AND METHODS

A well-designed questionnaire was used to collect the information from a sample of 400 people selected randomly from district Bandipora of Kashmir valley using stratified random. The respondents were explained the purpose of the study to get their consent. The questionnaire was designed to assess the attitude of people towards the use of medicinal plants during illness. Methods used to document the traditional knowledge included interviews and discussions with local knowledgeable persons of the area, herbal healers called "Bhoris" and Tribals (Gujjars and Bakerwals). The data collected from the study population was tabulated and analyzed statistically.

#### 3. RESULTS AND DISCUSSION

Treatment for the various ailments based on traditional plant medicines is considered the oldest form of healthcare known to mankind on this earth. Life and diseases go together, where there is a life, diseases are bound to exist. In the recent years, there is a resurgence of public interest in medicinal plants and their role in primary health care (Haq, 1983). Alternative medicine using herbal mixtures is becoming more popular as these are believed to be safer and natural. However, it is noticed that there still exists an immense gap between the local traditional knowledge and modern medical sciences. According to WHO, about three quarters of the world

population relies upon traditional medicines made from herbs for their health care. At a global level use of traditional medicine is increasingly and becoming essential part of the medicinal curriculum. Thus there is a huge potential of medicinal plants in health care not only in remote areas of developing countries but also in the industrialized world. During our survey of Bandipora district, we observe as under:

The data presented in Figure 1 reveals that 39.25% respondents revealed that they use medicinal plants for the treatment of different ailments.



The data shown in Figure 2, reveals that 27.25% of respondents told that they have knowledge via any family member or relative about the use and benefits of using medicinal plants for the treatment of various diseases.



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The data shown in Figure 3, reveals that 31.75% of respondents told that they are satisfied by getting treatment of various diseases using medicinal plants. The respondents believe that medicinal plants are not harmful for the health and are less expensive.



The data presented in Figure 4, reveals that majority of the respondents (43%) report that they are using medicinal plants for the treatment of various ailments as they have less side effects, followed 23% respondents who believe that they are less costly (23%) and 21% respondents are in the opinion that they are easily locally available.



The data shown in Figure 5, reveals that 53.25% of the respondents are in the opinion that Govt is taking adequate care for the protection of medicinal plants but 46.75 of respondents are not satisfied with the efforts of

Government taken for the protection of medicinal plants. They report that illegal encroachment to forest areas and shrinkage of forest land in the name of economic development is the main problem.



#### 4. CONCLUSION

The studies conducted showed that use of herbal medicine showed increasing trend. Keeping in view the high cost and side effects of allopathic medicine, the use of medicinal plants against different ailments plays a significant role in meeting the primary health care needs of the rural communities of Bandipora district. This district is fairly rich not only in medicinal plant species but has also deeply rooted traditional knowledge of these medicinal plants among the people. An immensely valuable database could be the outcome of this knowledge which in turn could provide a baseline information for the commercial exploitation of bioresources. Besides, the information could prove a fruitful source for pharmacologists, phytochemists, botanists and to those interested in the development of alternative therapies. Utilization of indigenous drug resources will increase the local industry on one hand and minimize the expenditure incurred on the purchase of foreign drugs on the other. In present study women showed positive attitude towards the use of medicinal plants. During survey herbal healers called "Bhoris" and Tribals (Gujjars and Bakerwals) were also consulted to get the useful information related to our topic. Research and conservation efforts should be focused on these resources of the area so that in future the coming generation could benefit from these precious plants that are a real gift to mankind. Besides, an understanding of the market potential of medicinal plants could provide rural farmers with the incentive for the cultivation of high demand species.

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(Field survey, Bandipora 2017-18)

## **SUGGESTION(S)**

- (i) The cultivation of medicinal plants should be encouraged in district Bandipora district of Kashmir valley
- (ii) Local people, teachers, religious leaders must be involved in awareness program

(iii) Traditional healers using medicinal plants should be encouraged which will help in conservation of the precious medicinal plants of district Bandipora of Kashmir valley.

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