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A STUDY ON THE USE OF MEDICINAL PLANTS DURING PREGNANCY IN BANDIPORA DISTRICT OF KASHMIR VALLEY

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ABSTRACT

The state of Jammu and Kashmir covered by lofty mountains hang dense forests everywhere consists of three divisions i.e., Jammu division, Kashmir division and Ladakh division, and the state is further divided into 22 districts. Kashmir division 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, rich in medicinal plants was chosen for our study. In 2011 census, Bandipora had population of 392,232 of which male and female were 207,680 and 184,552 respectively. Plants have been traditionally used for hundreds of years throughout globe as a source of medicine. In the state of Jammu and Kashmir forest resources have played the most significant role in the economy of the state. The present study was conducted to know the attitude of women towards use of medicinal plants during pregnancy. In this paper, a well designed and validated questionnaire was used to collect the information from a sample of 400 women pregnant or having children selected randomly from Bandipora district of Kashmir valley. The results obtained from the data collected reveal that women show positive attitude towards the use of medicinal plants during pregnancy. They further revealed that due to less expenditure and lack of medical facility they are encouraged by elders 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 women of Kashmir valley. Finally, suggestions were given which definitely help in conservation of the fast eroding precious medicinal plants of the Kashmir valley.

Keywords: Bandipora, Attitude, Pregnancy, Medicinal plants, Forests, Kashmir Valley

1. INTRODUCTION

The traditional health practices in Kashmir are as old as by the authorities. Modern science, in the recent years, has validated several medical practices rooted in Unani science's ancient wisdom. Its basics, diagnosis and treatment methods are based on scientific principles and a broad approach, which takes into consideration each person in relation to his/her environment and stresses on the health of the body, soul and mind. Conception and pregnancy are the most complex creative phenomena that are happening on the earth. Millions of women give birth every year, and nearly a third of women will have some kind of pregnancy-related complication who don't get proper prenatal care. The complications won't found or dealt soon can lead to potentially serious problems for both the mother and her baby. It is important to start prenatal care as early as possible, preferably, before a woman even becomes pregnant. Of course, this isn't always practically possible. But the sooner in pregnancy good care begins the better for the health of both mothers and their babies. It is suggested that prenatal care should start before one get pregnant. In case of any illnesses or other conditions that could affect your pregnancy e.g., a women is already being treated for a chronic condition, such as diabetes, asthma, hypertension (high blood pressure), a heart problem, allergies, lupus (an inflammatory disorder that can affect several body systems), depression, or some other condition, should talk to doctor about how it could affect a pregnancy. In some cases, person may need to change or stop certain medicines especially during the first trimester (12 weeks) to reduce risk to the fetus. For example, women with diabetes must take extra care to keep their blood glucose levels under control both before they begin trying to conceive and during pregnancy. Abnormal levels can increase the risk of birth defects and other complications for both mothers and their babies. It's especially important for women who plan to become pregnant to take proper diet and it's never too late to get the care that will help to protect health of women and her baby. Recently, (Sabahat, Bilal et al., 2018) discussed the problems in conceiving and treatment via Unani medicine. If a women is in good health and has family elders support then there is no need to worry. In case facilities are available she should have routine medical checkup otherwise remain in touch with the experienced elders. For baby's sake and mothers, it's important that women should take good care during pregnancy. The women must be aware that pregnancy can cause a number of uncomfortable (but not necessarily serious) side effects, including: (i) nausea and vomiting, especially early in the pregnancy, (ii) leg swelling (iii) varicose veins in the legs and the area around the vaginal opening (iv) heartburn and constipation (v) bakache (vi) fatigue and (vii) sleep loss. A women facing any one of these problem should consult a doctor or elder expert person. A women might feel embarrassed to ask many questions, but it's important to do so and remember, health care provider has heard them all before. The state of Jammu and Kashmir consists of three divisions i.e., Jammu division having 10 districts, Kashmir division 10 districts and Ladakh division having two districts. In this paper,

we select district Bandipora of Kashmir valley for study. Bandipora is located on the banks of Wular Lake, one of the largest freshwater lakes in Asia and rich in medicinal plants. 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. Plants have been traditionally used for thousands of years throughout globe as a source of medicine and regarded potentially safe drugs. Plants have been playing a significant 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. The reason for the popularity of medicinal plants is due to the high cost, non availability of immediate medical facilities in remote areas and side effects of allopathic medicines. The present study in view of the literature available (e.g., Ara 1992, Nawchoo 1995, Kaual 1997, Tantray 2009, Bhat 2012, Syed Naseem et 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 women towards use of medicinal plants during pregnancy. 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 (Geelani et al., 2017, Bhat et al., 2018) conducted in Kashmir valley reveal that people in Bandipora district of Kashmir use the medicinal plants for the treatment of various diseases. The table below shows few plants which are used by females and children's for the health benefits and treatment of various diseases.

BOTAN	NICAL			
NAME/ I	LOCAL	PLANT		
NAN	ΛE/	PART		MODE OF
FAM	ILY	USED	AILMENTS	ADMINISTRATION
				Black stalks are used as tooth
				sticks to clean teeth. Dried
				fronds are crushed to obtain
				powder.
				Powder is added to a glass of
				water and kept as such
			Cough, jaundice,	overnight. The extract is given
			stomach	next day early in the morning
Adiantum			ailments,	for the treatment of cough,
venustum D	.Don.		headache, fever,	jaundice and stomach ailments.
Kakbai			body muscular	The herb forms an important
(Pteridace	ae)	Whole	pains and hair	ingredient of a combination of
		Plant	fall.	several different herbs such as

Some locally available medicinal plants of Bandipora District Kashmir Valley

			whole plants of <i>Cotula</i>
			anthemoides, leaves of Ocimum
			basilicum and leaves and
			flowers of <i>Prunella vulgaris</i> .
			This combination, locally called
			"Lossa Ghasa" is thoroughly
			boiled in water to prepare hot
			water extract.
			Ladies, after their deliveries, are
			advised to have bath with this
			hot water extract (after dilution
			with more water) to cure
			headache, fever, body muscular
			pains and hair fall.
Brassica oleracea	Leaves	Corns and	Leaves are taken as vegetable.
var. haka Linn.		constipation.	Fresh leaf is gently placed in
Hakh			warm mustard oil with haldi and
(Brassicaceae)			salt till it becomes soft. It is
			then tightly tied with muslin
			cloth on painful corns of toes
			and fingers which helps them to
			ripe, burst and evacuate the pus
			and hence to alleviate the pain.
			-
			The petiole of the leaf after
			peeling off the rind is placed in
			the rectum of the new born baby
			as a best home remedy to cure
<u> </u>			constipation.
Calendula	Leaves and	Boils, burns,	Leaves and flowers are crushed
officinalis Linn.	Flowers	eyelid abscesses	and paste is made by mixing
Hamesh Bahar		and pneumonia.	with cow butter. Paste is then
(Asteraceae)			applied on boils, burns and
			abscesses of eye lids to give
			relief from pain. Poultice is
			made by crushing of fresh
			leaves and flowers which is
			slightly warmed and then spread
			on a cloth and tied on chest to
			cure pneumonia in children.
Centaurea iberica	Leaves and	Burns, skin rashes,	Thorns are burnt to get ash
Trevir. ex Spreng.	Thorns	eye vision	which is mixed with cow butter
1 0		~	

Krech		and defective	to make paste. Paste is applied
(Asteraceae)		lactation.	on burns and skin rashes for
			their treatment. Fresh leaves
			after crushing are mixed with
			egg and then cooked to prepare
			omlette. Latter is given to
			improve the eye vision. It is
			also given to enhence lactation
			in females.
Cichorium intybus	Leaves	Body weakness,	Leaves are cooked and given to
Linn.		loosening of joints,	fresh mothers to cure body
Kasni/Wari Hundh		body muscular	weakness, loosening of joints,
(Asteraceae)		pains, frequent	body muscular pains, frequent
()		bleeding, loss of	bleeding and as appetizer and
		appetite and liver	liver tonic.
		problems.	
Cydonia oblonga	Seeds,	Constipation, birth	Seed infusion is given to
Mill.	fruits and	problems,	pregnant women against
Bumchuont	flowers.	jaundice, cough,	constipation and to loosen body
(Rosaceae)		cold, chronic	parts so as to facilitate the
(constipation, fever,	normal delivery. The seeds also
		dysentery, blood	form an important ingredient of
		purifier, asthma,	a combination of different herbs
		chest problems,	such as seeds of <i>Cucumis</i>
		general body	sativa, Malva neglecta,
		weakness and	Foeniculum vulgare, fruits of
		body muscular	Zizyphus jujuba, leaves and
		pains.	flowers of Arnebia benthamii
		panis.	and fronds of <i>Adiantum</i>
			<i>capillus-veneris</i> . This
			combination is locally called as
			"Sharbeth". The composite
			decoction of "Sherbeth" is
			given to cure jaundice, cough,
			cold, chronic constipation, fever
			and as a good blood purifier.
			Fruit slices are sun dried, stored
			for winter season. Slice
			decoction is administered orally
			in case of dysentery. Ripe fruits
			after being coated externally
			and being coaled externally

I		
		with a thin layer of mud are
		roasted and then eaten as a best
		home remedy against asthma,
		cold, chest problems and
		general body weakness.
		Sundried flowers and sugar
		after mixing are crushed. The
		same is then kept in air tight jar
		for about 10-15 days for
		fermentation. This fermented
		mixture is locally called
		"Khambir Bihi". It is given to
		cure cough, cold, asthma and
		body muscular pains.
Roots	Dysuria, digestive	Roots at juvenile stage are
Roots	•	considered highly energetic and
		are consumed raw by the local
	luigue.	livestock grazers while
		travelling long distances by foot
		to give relief from painful and
		difficult urination.
Saada	Stomooh	Dried seeds are considered
Seeus		
	-	highly energetic and are eaten
		against stomach problems,
	•	whooping cough, semen
	and weak libido.	deficiency and to increase
		libido. Kashmiri Pandiths
		considered the seeds as 'sacred'
		because they used to break their
		fast by eating the bread
		prepared from its flour.
Whole	Dyspepsia, acidity,	prepared from its flour. Seeds are eaten to cure
Whole plant	Dyspepsia, acidity, constipation,	prepared from its flour.
	• • • •	prepared from its flour. Seeds are eaten to cure
	constipation,	prepared from its flour. Seeds are eaten to cure dyspepsia, acidity and
	constipation, abdominal pain,	prepared from its flour. Seeds are eaten to cure dyspepsia, acidity and constipation. In case of
	constipation, abdominal pain, Jaundice,	prepared from its flour. Seeds are eaten to cure dyspepsia, acidity and constipation. In case of abdominal pain and
	constipation, abdominal pain, Jaundice, cough, cold,	prepared from its flour. Seeds are eaten to cure dyspepsia, acidity and constipation. In case of abdominal pain and constipation of a small baby,
	constipation, abdominal pain, Jaundice, cough, cold, chronic	prepared from its flour. Seeds are eaten to cure dyspepsia, acidity and constipation. In case of abdominal pain and constipation of a small baby, seeds are chewed to make paste
	constipation, abdominal pain, Jaundice, cough, cold, chronic constipation,	prepared from its flour. Seeds are eaten to cure dyspepsia, acidity and constipation. In case of abdominal pain and constipation of a small baby, seeds are chewed to make paste which is applied respectively on
_	Roots	disorders and fatigue.

			composite decoction of
			"Sherbeth" is given to cure
			jaundice, cough, cold, chronic
			constipation, fever and also acts
			as a good blood purifier. Seeds
			are also eaten to abstain from
			smoking. Whole plant is burnt
			to get ash which is mixed with
			oil to make paste. Paste is then
			applied on painful joints.
Fumaria indica	Whole	Defective eye	Dried plant is grinded and
(Hausskn.) Pugsley	plant	vision, palpitation	powder is made which is
Shahtar	Press	of heart, breathing	administered orally with water
(Fumariaceae)		problems,	against defective eye vision,
(i umartaceae)		skin diseases,	palpitation of heart, breathing
		blood purifier,	problems, skin diseases and as
		asthma, defective	good blood purifier. Whole
		urination with pus,	plant decoction is taken to
		skin rashes,	overcomee asthma, defective
		dropsy, menstrual	urination with pus, skin rashes,
			-
		irregularities, male	dropsy, menstrual irregularities,
		impotency and	male impotency and general
		general body	body weakness.
1	Emelia.	weakness.	
Lagenaria	Fruits	Cough, cold,	Fresh fruits after peeling off the
siceraria (Molina)		fever, chest pain,	rind and removing seeds are cut
Standl.		stomach ulcers,	into thin slices. Slices are sun
Kashir Aull		stomach heat up,	dried and preserved in the form
(Cucurbitaceae)		kidney stones,	of garlands at home for winter
		urine problems	season. In winter, decoction
		and yoke gall.	made from them is used in the
			treatment of cough, cold, fever,
			chest pain, stomach ulcers,
			stomach heatup, to dissolve
			kidney stones and promote
			urine flow. Dried fruit is burnt
			to get ash which is mixed with
			mustard oil to make paste. The
			paste is slightly warmed and the
			applied on the neck of bulls to
			cure yoke gall.

Malus domestica	Fruits	Dyspepsia,	Fruits are harvested and stored
Borkh.	Fluits	• • •	
		diabetes, jaundice,	at some warm place for 15-20
Maharaji Treil		urinary problems,	days so as to ripe completely.
(Rosaceae)		loss of appetite,	Ripe fruits are eaten to cure
		phlegm, thirst,	dyspepsia, diabetes, jaundice,
		body fats, cough	urinary problems, loss of
		and other chest	appetite and to remove phlegm
		ailments.	from the chest, quench the thirst
			and dissolve the body fats. Fruit
			is cut into small circular slices
			which are sun dried and
			preserved in the form of
			garlands at home for winter.
			These are eaten and considered
			to be good for the treatment of
			cough and other chest ailments.
Marrubium	Whole	Arthritic pains,	Fresh leaves are soaked in hot
vulgare Linn.	plant	swelling of	water for two minutes and then
Troper		eyelids, abdominal	removed and crushed into
(Lamiaceae)		pain, dysentery,	poultice. Poultice is spread on a
		chilblain and	cloth, wrapped in it, and then
		muscular pains.	tied on arthritic joints to
			alleviate pain. The same
			poultice is applied on eyelids to
			cure their swellings. Plant is
			crushed and paste is made from
			it by mixing with cow butter.
			The resultant paste is given
			orally to children against
			abdominal pain and to cattle
			against dysentery. Hot water
			extract is prepared by boiling
			the dried herb thoroughly in salt
			water. Extract is then used to
			wash feet and legs to cure
			chilblains and muscular pains
			respectively.
Nelumbo nucifera	Rhizome	Stomach problems,	Roasted rhizome is taken in
Gaertn.	and seeds.	dysentery,	case of stomach problems and
Nadroo		constipation,	dysentery. Fresh rhizome is
(Nelumbonaceae)		vomiting, urinary	either eaten raw or sliced, and
(interactional conditional con		, onnung, unnary	

		problems and	cooked as vegetable against
		semen deficiency.	constipation. Fresh seeds are
			given in case of vomiting,
			urinary problems and semen
			deficiency.
Nymphaea	Rhizome,	Hair fall, boils,	Rhizome powder is mixed with
maxicana Zucc.	stolons and	diabetes,	oil to make paste which is
Bumiposh/Gul-e-	flowers	rheumatism, fever,	applied on hair to check hair
nelofar		heart	fall. Paste is also applied on
(Nymphaceae)		palpitation, urinary	painful and pus filled boils of
		problems and	head for their treatment. Stolens
		liver disorders.	are collected, dried, cooked and
			taken against diabetes and
			rheumatism. Dried stolens after
			boiling in salt water are tied
			over painful boils for 3-4 days
			for their complete removal.
			Flower decoction is given
			against fever, heart palpitation,
			urinary problems and liver
			disorders.

2. MATERIALS AND METHODS

The present study is a survey design intended to investigate the approach of pregnant women towards the use of medicinal plants in district Bandipora of Kashmir valley. District Bandipora is rich in medicinal plants so we select this district for our study. A well-designed validated questionnaire was used to collect the information from a sample of 400 women, pregnant or having children less than 2 years of age selected randomly from district Bandipora of Kashmir valley. Purposive and random method of sampling was used to collect the data and the respondents were explained the purpose of the study to get their consent. The questionnaire was designed to assess the attitude of women towards the use of medicinal plants in pregnancy. Local knowledgeable persons of the area, herbal healers called "Bhoris", Tribals (Gujjars and Bakerwals) were also interviewed. The data collected from our study was tabulated and analyzed using standard statistical tools.

3. RESULTS AND DISCUSSION

Life and diseases go collectively, where there is a life, diseases are bound to exist. In the last few decades, there is a resurgence of public interest in use of medicinal plants and their role in primary health care. Medicine using

herbal mixtures is becoming more accepted as these are believed to be safer and natural. Worldwide use of traditional medicine is increasingly and becoming necessary part of the medicinal curriculum. There is a huge potential of medicinal plants in health care not only in remote areas of developing countries but also in industrialized world. According to WHO, about three quarters of the global population relies upon traditional medicines made from herbs for their health care. The results obtained from the data collected from District Bandipora during our survey are presented as under:

S.No.	Age (years)	Frequency	Percentage			
1.	<20	9	2.25			
2.	21-25	68	17.00			
3.	26-30	127	31.75			
4.	31-35	161	40.25			
5.	36-40	23	5.75			
6.	>40	12	3.00			

Table 1: Distribution of the respondents as per age

The data presented in Table 1 shows that the respondents were divided in to 6 age groups. The maximum respondents 161 (40.25%) were in 31-35 years group, followed by 127 (31.75%) in the age group 26-30 years, 68(17.00%) in the age group 21-25 years, 23 (5.75%) in the age group 36-40 years, 12(3.00%) in the 40 years above age group and 9(2.25%) in the age group of below 20 years group showing the lowest percentage.

	Table 2: Distribution of the respondents as per education status						
S.No.	Education	Frequency	Percentage				
1.	Illiterate	78	19.50				
2.	Primary	92	23.00				
3.	Secondary	74	18.50				
4.	Higher Secondary	86	21.50				
5.	Graduate/Above	70	17.50				

Table 2: Distribution of the respondents as per education status

The data presented in Table 2 shows that the respondents were divided in to 5 education groups. The majority of respondents 92(23.00%) were primary by education, followed by 86(21.50%), 78(19.50%), 74(18.50%), and 70(17.50%) were higher secondary, illiterate, secondary and graduate/above respectively.

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S.No.	Family Status	Frequency	Percentage
1.	Middle Class	306	76.5
2.	Low Class	94	23.5

Table 3: Distribution of the respondents as family status

The data presented in Table 3 shows that most 306 (76.5%) of the respondents were from middle class families and 94 (23.5%) were from low class families.

Family	Response								
Status	Very Good	Good (%)	Satisfactory	Not Satisfactory	Not Good				
	(%)		(%)	(%)	(%)				
Middle		53	129		31				
Class	38 (12.42%)	(17.32%)	(42.16%)	55 (17.97%)	(10.13%)				
Low Class		25	17		11				
	26 (27.66%)	(26.60%)	(18.08%)	15 (15.96%)	(11.70%)				
Chisquare $= 2$	25.365, p-value	Chisquare = 25.365, p-value<0.01							

Table 4: Behaviour of Doctors/Healers towards Pregnant women as per family status

Table 4 shows that among middle class 129 (42.16%) respondent commented doctor behavior as satisfactory, followed by 55(17.97%) not satisfactory, 53(17.32%) commented as good, 38(12.42%) commented as very good and only10.13% commented as not good showing the lowest percentage. Regarding clinical examination, most (85.9%) of the respondents did not have any clinical examination during their treatment and (14.1%) respondent had clinical examination. It was observed that majority (64.4%) of the respondent got oral advice during their treatment and (35.6%) did not get any oral advice.

					~	n 1
Age		Use of Una	Chisquare	P-value		
			_			
	Yes	%	No	%		
<20	6	66.67	3	33.33		>0.05
21-25	57	83.82	11	16.18		
26-30	102	80.31	25	19.69		
31-35	123	76.40	38	23.60		
36-40	19	82.61	4	17.39		
>40	7	58.33	5	41.67	5.680	

 Table 5: Association Between Age and use of Unani Medicine

Table 5 shows that 'use of Unani medicine' was found high among women in the age group 21-25 years, followed by 36-40 age group then by 26-30 age group, then by 31-35 years age group then by below years age group and at last by above 40 years of age group. Statistically, there is not association between age and use of Unani Medicine (p>0.05).

Education		Use of Unar	Chisquare	P-value		
	Yes	%	No	%		
Illiterate	45	57.69	33	42.31	11.994	< 0.05
Primary	61	66.30	31	33.70		
Secondary	52	70.27	22	29.73		
Higher						
Secondary	57	66.28	29	33.72		
Graduate/Above	32	45.71	39	54.29		

 Table 6: Association Between Education and use of Unani Medicine

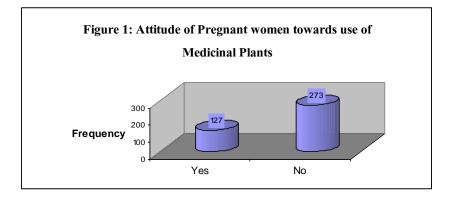
The data presented in Table 6 shows that 'use of Unani medicine' was found high among illiterate respondents and it was 70.27% among secondary educated, 66.30 among primary, 66.28 among higher secondary, 57.69% among Illiterate and 45.71% among Graduate/Above womens. Statistically, there is a significant association between education and use of Unani Medicine (p<0.05).

Education	come agai	in for health se	Chisquare	P-value						
	Yes	%	No	%						
Illiterate	31	39.74	47	60.26		< 0.01				
Educated	207	64.29	115	35.71	15.694					

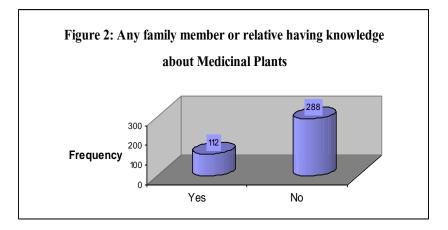
Table 7: Association Between Education and come again for health service if necessary

The data presented in Table 7 reveals that 'come again for health services if necessary' was found high among educated respondents and it was 64.29% and 39.74% respondents were illiterate. Statistically, there is a significant association between education and come again for health service if necessary (p<0.01).

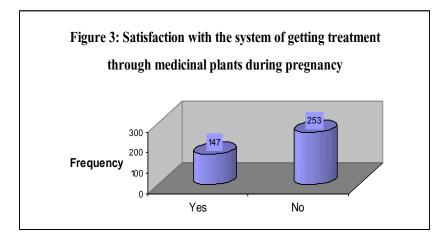
The data presented in Figure 1 reveals that 31.75% revealed that they use medicinal plants during pregnancy.



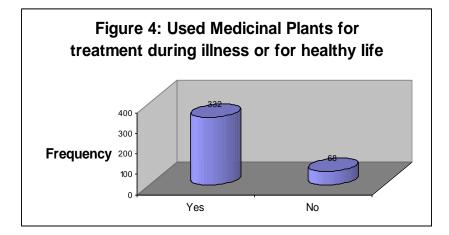
The data presented in Figure 2, reveals that 28% respondents told that they are encouraged by a family member or a relative to take the medicinal plants during pregnancy for smooth delivery.



The data presented in Figure 3 showed that 36.75% responded told that they were satisfied by taking medicinal plants during pregnancy. It was observed that rural women were more satisfied as compared to urban women because they have more than on the use of medicinal plants than urban women.



The data presented in Figure 4, reveals that 83% respondents told that they have used plant medicine for the treatment of any disease or for the healthy life.



It is observed that results obtained in this study are in agreement with the earlier studies (e.g., Gilani et al., 2017 and Bhat et al., 2018)

4. CONCLUSION

The study conducted in district Bandipora of Kashmir valley revealed that in view of the high cost and side effects of allopathic medicine, the use of medicinal plants against different ailments plays an important role in meeting the primary health care needs. The results of our study shows that womens especially from poor families showed positive approach towards the use of herbal medicine during pregnancy. Women in majority were aware of the taking health care during pregnancy. Bandipora district is comparatively rich not only in medicinal plant species but has also deeply rooted traditional knowledge of these medicinal plants among the people. It is important that we understand the benefits of medicinal plants for health as well as for increasing our economy.

Suggestion(s)

(i)The cultivation of medicinal plants in Bandipora should be encouraged.

(ii) Local people, religious leaders, teachers should be involved in awareness program

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

Recommendation(s)

During period of Pregnancy following medicines are preferred

(i) Jawarish Anarain is used for vomiting relief

- (ii) Jawarish Shahi is used as Cardiac and Brain tonic
- (iii) Jawarish Tamar Hindi is used to improve appetite gives extra strength to liver and stomach
- (iv) Sharbate Faulad is iron tonic for female and child as it increases red blood cells.
- (v) Khamira Marwareed is used to eradicate weakness of heart
- (vi) Khamira Sadaf is used to increase calcium in women
- (vii) Majun Dabidul Ward is used to treat digestive and liver ailments
- (viii) Arq Hazim is used for proper digestion
- (ix) Peppermint is used for increasing metabolism during pregnancy
- (x) Abreshain is used to control heart palpitation

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