IJCRT.ORG

ISSN: 2320-2882



INTERNATIONAL JOURNAL OF CREATIVE RESEARCH THOUGHTS (IJCRT)

An International Open Access, Peer-reviewed, Refereed Journal

Study On Ethnomedical Plants Used By Santal Tribes For Health Care

Ramjit Kisku

Assistant Professor

Santal Bidroha Sardha Satabarshiki Mahavidyalaya, Goaltore, West Bengal, India.

Abstract: The present study shows that the medical plant is important in tribal health care. A study was conducted among the Santal people of two villages in the Paschim Medinipur district of West Bengal. During this study, information was collected through interviews method from senior Santal tribe peoples of this village, Ojha,kabiraj and local medical plants seller. The study reveals that 29 different plant species belong to 21 families and are used by the Santal tribe to cure different diseases. while leaves were noted as the most used plant part, followed by roots, bark, whole plant, flowers, latex and stem etc., most medicinal plants are used single or combined with other plants and ingredients.

Keywords: Santal, Tribe, Medical Plants, Health Care.

Introduction:

The World Health Organization has estimated that over 80% of the population in developing countries depends directly on plants for medicine[1]. Medicinal Plants are an important resource to traditional societies' health care systems. It is estimated that 70-80% of the rural population in developing Asian nations depends on traditional medicine for primary health care today, even though allopathic medicine is available in many places in the region. In rural societies of the region, food, health care, and wood-derived energy meet the basic needs. Still, there are no alternative resource options to ensure the survival of these traditional rural communities[2]. Medicinal plants are an important element of the medical system. These resources are usually regarded as part of cultural and traditional knowledge[3]. Over 9500 wild plant species are used by the tribal communities in India for meeting their various requirements, as has been recorded so far, out of which about 7500 wild plant species are used by them for medicinal purposes, about 950 are found to be new claims and worthy of scientific investigations. Many of these species are also used in various traditional medicine systems like Ayurveda, Unani, Siddha etc[4].[5] .Traditional knowledge has been documented through an ethnobotanical study of medicinal plants in the Palamalai region of Eastern Ghats, India. A total of 118 plant species have been documented[6]. Investigated 72 plant species belonging to 43 families of 66 genera used by the local people for primary health care in the northern part of Malda district, West Bengal, India[7].documented 52 species of medicinal plants belonging to 39 families and 51 genera for treating different diseases in rural people of Murshidabad district in West Bengal[8].Documented 31 ethnomedicinal plant species belonging to the 29 genera of 23 families giving their botanical, local and family names, therapeutic uses, parts used, mode of administration etc., used by different tribal-dominated parts of Hooghly district, West Bengal[9], recorded 25 plants which are used by the santal people living in and around Susunia hill of Bankura for treatment of 27 types of diseases[10]. The objective of the present work is to explore the medical remedies of some medicinal plants used by the Santal tribe of Bulanpur and Pitli villages of Paschim Medinipur district, West Bengal, India.

Study Area:

This study was conducted in two Santal living villages named Bulanpur and Pitli, known as the part of Jangalmahal, which are situated in Patharpara gram panchayat under Garhbeta II block of Medinipur district, West Bengal, India.

Materials and Methods:

An Ethnomedical study was undertaken in a different part of these villages. The field study was conducted for six months duration (July 2022 to December 2022). Information of ethno- medicinal data were collected by structured questionnaire-based interviews method from senior Santal tribe peoples of these villages, ojha,kabiraj and local medical plants seller. Collected plant specimens were identified following standard taxonomic methods[11], [12].

IJCRT2304374 International Journal of Creative Research Thoughts (IJCRT)

Result and Discussion:

during this survey, work found 29 medical plant species, which belong to 21 families that have been documented along with their local names, which are partly used in medicine, preparation procedures etc(Table 1). These plants are used to cure 30 types of diseases. These plants are used for white discharge, bleeding, bronchitis, acidity, dysentery, piles, haemorrhoids, blood dysentery, hypertension, diarrhoea, blood dysentery, liver, menstruation problems, diarrhoea, asthma, stomach pain, haemorrhages, jaundice, hair fall, skin disease, sleeping problems, leucorrhoea, ringworm, dental and gum problems, cough, arthritis, cold fever, insect bites, constipation and digestive problems.

Most of their ethnomedical knowledge is transferred from one generation to the next. Tribal peoples of this study area used different parts of medicinal plants as medicine, mostly leaves followed by roots, bark, whole plant, flowers, latex and stem etc. Most medicinal plants are used single or combined with other plants and ingredients.

Table 1: An enumeration of the medicinal plants and their uses.

Table 1: An enumeration of the medicinal plants and their uses.							
Sl.	Botanical	Family	Local	Parts Used	Medicinal Uses		
NO	Name	·	Name				
110	rvame		- 1011111				
1	Achyranthes	Amaranthaceae	Anong	Whole Plant	White discharge- the whole plant and		
1		Amarammaceae	Apang	Whole Flain			
	Aspera				black pepper are pasted together and		
					consumed on an empty stomach in the		
					morning, curing white discharge.		
					8, 8		
					Bleeding- leaves paste applied to the cut		
					area to stop bleeding.		
2	Adhatoda	Acanthaceae	Basak	Leaves,	Bronchitis- fresh leaves extract with		
2	vasica	Acanthaceae	Dasak	Leaves,			
	vasica			Bark	honey is used for the treatment of		
				Dark	D 1.1/2 1 1.		
		_			Bronchitis and cough.		
				\	A - 124 1 - 11 7 + 0 C1 - 1 C		
					Acidity- boiling 7 to 8gm of bark in 6 cup		
					water and straining it to one cup are taken		
					daily.		
					Piles and haemorrhoids- the bruised		
					leaves are slightly heated and applied to		
					the anus to relieve pain and swelling.		
					the ands to reneve pain and swening.		
3	Alstonia	Angarmagaga	Chatim	Bark	Dysentery -boiled bark is used for the		
3		Apocynaceae	Chathh	Dark			
	scholaris				treatment of Dysentery and other		
					abdominal diseases.		
4	Amaranthus	Amaranthaceae Amaranthaceae	Kanta	Roots	Blood dysentery- Roots and black pepper		
	spinosus		notey		extract are taken to cure blood dysentery.		
5	Andrographis	Acanthaceae	Kalmegh	Leaves	liver and menstruation problems-		
	paniculata				leaves extracts are taken every morning		
	1				louves entruets are tanten every merming		
					in an empty stomach for healthy liver and		
					regulate menstruation problems.		
6	Bryophyllum	Crassulaceae	Pathar	Leaves	Diarrhoea- leaves extract with 3 grams of		
0		Crassuraceae	kuchi	Leaves	=		
	calycinum		Kuciii		cumin seeds and 6 grams of ghee taken for		
	C 1. 1				curing diarrhoea.		
	Salisb						
					Piles- leaf extract with black pepper gives		
					relief from piles.		
7	Cynodon	Poaceae	Durba	Leaves	Bleeding- leaves paste to the cut area to		
	dactylon				stop bleeding.		
					Blood dysentery- 5 grams of durba		
					leaves and 2 Syzygium cumini leaves		
					mixed together, strain the juice, heat it a		
					little, mix it with milk, and consume it		
<u> </u>					twice daily.		
8	Catharanthus	Apocynaceae	Nayantara	Roots,	Hypertension and menstrual disorders-		
1	roseus			Leaves	leaves and root extract are beneficial for		
					cure hypertension and regulating the		
					menstrual cycle.		
					mensular cycle.		
1	i		1	Ī	1		

Leaves, Latex Latex Latex Latex Latex Stomach pain- applying mustard oil on the leaves, hearing it a little and placed on the shoresh pain. Fabaceae Fabaceae Fabaceae Fabaceae Sisu Roots Fronchits Take root extract with honey is to cure those the substance hose showed pain. Fronchits Take root extract with honey is to cure those the substance and special control of the shore that the substance and special control of the shore and a strain to substance and special control of the shore and a strain to substance and special control of the substance and special control of the substance and substance a	9	Calotropis	Asclepiadaceae	Acanda	Roots,	Asthma: First, powder the root, soak in
Stomach pain: applying mustard oil on the leaves, heating it a little and placed on the stomach to stop stomach pain: a little and placed on the stomach to stop stomach pain: a little and placed on the stomach to stop stomach pain: a little and placed on the stomach to stop stomach pain: a little and placed on the stomach to stop stomach pain: a little and placed on the stomach to stop stomach pain: a little and placed on the stomach to stop stomach pain: a little stomach to stop stomach pain: a little stomach to stop stomach pain: a little stomach to stomach to stomach to stomach to stomach pain: a little stomach to stomach to stomach pain: a little stomach pain: a little stomach to stomach pain: a little		Procera			·	
the leaves, heating it a little and placed on the stormach to stor potranch pairs. Take root extract with honey is to cure bronchitis. Roots branchitis. Diarrhoca, dysentery- Take two spoonful of honey to cure diarrhoca and other intestinal disorders. Leaves Leaves, Responsibility, Leaves,					Latex	cigarette and smoke it and feel better.
the leaves, heating it a little and placed on the stormach to stor potrach pairs. Take root extract with honey is to cure bronchitis. Take root extract with honey is to cure bronchitis. Roots. Diarrhoca, dysentery- Take two spoonful of broncy to cure diarrhoca and other intestinal disorders. Take more than the properties of thomey to cure diarrhoca and other intestinal disorders. Take more than the properties of the properties of the properties of the properties of the properties. Take more than the properties of the prop						Stomach pain- applying mustard oil on
Table						
Internate Inte					_	
Sisson	10		Fabaceae	Aparajita	Roots	Bronchitis- Take root extract with honey
Sissoo		iernaiea				is to cure bronchitis.
12 Ficus bengalensis	11	Dalbergia	Fabaceae	Sisu	Roots	
12 Ficus bengalensis Moraceae Bot Leaves, Aerial Aerial Roots. 13 Ficus religiosa Moraceae Aswattha Leaves, Latex. 14 Hemidesmus Asclepiadaceae Anantamul Roots, Leaves Latex Jaundice- take leaves and arial roots wice a day cure diarrhoea and intestinal disorders. Haemorrhages latex used to cure haemorrhages and inflammation. Jaundice- take leaves extract with sugar cane to cure jaundice.		sissoo				*
Bengalensis	12	Figus	Moraceae	Rot	Laguas	
Roots Tricus Moraceae Aswattha Leaves	12		Moraccac	Вос	·	
Leaves, Latex Leaves, Latex Leaves, Latex Leaves, Latex Leaves, Latex Leaves, Latex Leaves Leav		Ö			Roots.	
Leaves Latex Jaundice-take leaves extract with sugar cane to cure jaundice.						
Leaves, Latex. Jaundice- take leaves extract with sugar cane to cure jaundice. Asthma-taken 2 grams of crushed leaves are beneficial for asthma. Skin Disease- taken 3 grams of root powder after meals twice daily. Dysentery- taken root past with honey cure dysentery. White discharge - take root juice with cow milk. Menstrual disorder- taken crushed floral bads with water and Molasses every morning for seven days during menstruation to cure the menstrual disorder. Alopecia- flowers are heated with coconur oil applied on the head for hair growth. Alopecia- flowers are heated with coconur oil applied on the head for hair growth. Leaves and ladicum Meliacae Shusuni Leaves and Roots Roots Roots Meliacae Neem Leaves, Stem, Bark Dental caries- stem used as a toothbrush(datan) to prevent dental caries. Dysentery-take leaves and bark past with honey to cure dysentery. Anaemia- take tender leaves cure deficiency anaemia. Dental caries- stem is used as a toothbrush(datan) to prevent toothache and gum bleeding.	13		Moraceae	Aswattha		
Asclepiadaceae Anantamul Roots, Leaves Asthuna-take grams of crushed leaves are beneficial for asthma. Skin Disease- taken 3 grams of root powder after meals twice daily.		reugiosa			Leaves,	naemorrnages and inflammation.
Hemidesmus indicus					Latex.	_
Leaves Skin Disease- taken 3 grams of root powder after meals twice daily. Dysentery- taken root past with honey cure dysentery. White discharge - take root juice with cow milk. Menstrual disorder- taken crushed floral buds with water and Molasses every morning for seven days during menstruation to cure the menstrual disorder. Alopecia- flowers are heated with ecocanu oil applied on the head for hair growth. High blood pressure and sleeping problems- Taking cooked leaves is beneficial for high blood pressure and sleeping problems. Roots Roots Melia Melia Meliaceae Neem Leaves, Stem, Bark Melia Meliaceae Neem Leaves, Stem, Bark Dysentery- take leaves and bark past with honey to cure dysentery. Anaemia- take tender leaves cure deficiency anaemia. Dental carie- stem is used as a toothbrush(datan) to prevent toothache and gum bleeding.	1.4	**		A	D .	
Leaves Skin Disease- taken 3 grams of root powder after meals twice daily.	14		Asclepiadaceae	Anantamul	Roots,	=
powder after meals twice daily. Dysentery- taken root past with honey cure dysentery. White discharge - take root juice with cow milk. It is sinessis Malvaceae Jaba Flowers Menstrual disorder- taken crushed floral buds with water and Molasses every morning for seven days during menstruation to cure the menstrual disorder. Alopecia- flowers are heated with ecocont oil applied on the head for hair growth. High blood pressure and sleeping problems. Taking cooked leaves is beneficial for high blood pressure and sleeping problems. Taking cooked leaves is beneficial for high blood pressure and sleeping problems. Roots Roots Meliaceae Neem Leaves, Stem, Bark Meliaceae Neem Leaves, Stem, Bark Dental caries- stem used as a toothbrush(datan) to prevent dental caries. Dysentery- take leaves and bark past with honey to cure dysentery. Anaemia- take tender leaves cure deficiency anaemia. Dysentery- take leaves are is used as a toothbrush(datan) to prevent dental caries. Dysentery- take leaves cure deficiency anaemia. Dental caries stem is used as a toothbrush(datan) to prevent dental caries. Dysentery- take leaves cure deficiency anaemia. Dental caries stem is used as a toothbrush(datan) to prevent dental caries.		inaicus			Leaves	are beneficial for astrima.
Dysentery- taken root past with honey cure dysentery. White discharge - take root juice with cow milk. Menstrual disorder- taken crushed floral buds with water and Molasses every morning for seven days during menstruation to cure the menstrual disorder. Alopecia- flowers are heated with coconut oil applied on the head for hair growth. High blood pressure and sleeping problems- Taking cooked leaves is beneficial for high blood pressure and sleeping problems. Taking cooked leaves is beneficial for high blood pressure and sleeping problems. Roots Roots Meliacum Boraginaceae Hanti sund Leaves and Roots Roots Ringworm- apply root paste to cure ringworm Skin diseases- the past of leaves with turneric is beneficial for skin disease. Dental caries- stem used as a toothbrush(datan) to prevent dental caries. Dysentery- take leaves and bark past with honey to cure deficiency anaemia. Dysentery- take leaves cure deficiency anaemia. Dental caries- stem is used as a toothbrush(datan) to prevent toothache and gum bleeding.						Skin Disease- taken 3 grams of root
cure dysentery. White discharge - take root juice with cow milk. Its Hibiscus rosa- Sinensis Malvaceae Jaba Flowers Menstrual disorder- taken crushed floral buds with water and Molasses every morning for seven days during menstruation to cure the menstrual disorder. Alopecia- flowers are heated with coconut oil applied on the head for hair growth. High blood pressure and sleeping problems- Taking cooked leaves is beneficial for high blood pressure and sleeping problems. Taking cooked leaves is beneficial for high blood pressure and sleeping problems. Kingworm- apply root paste to cure ringworm Roots Melia Melia Meliaceae Neem Leaves, Stem, Bark Stem, Bark Stem, Bark Dental caries- stem used as a toothbrush(datan) to prevent dental caries. Dysentery- take leaves and bark past with honey to cure dysentery. Anaemia- take tender leaves cure deficiency anaemia. 19 Shorea robusta Dipterocarpaceae Sal/Sarjom Fruits, Stem Dental care- stem is used as a toothbrush(datan) to prevent toothache and gum bleeding.						powder after meals twice daily.
cure dysentery. White discharge - take root juice with cow milk. Its Hibiscus rosa- Sinensis Malvaceae Jaba Flowers Menstrual disorder- taken crushed floral buds with water and Molasses every morning for seven days during menstruation to cure the menstrual disorder. Alopecia- flowers are heated with coconut oil applied on the head for hair growth. High blood pressure and sleeping problems- Taking cooked leaves is beneficial for high blood pressure and sleeping problems. Taking cooked leaves is beneficial for high blood pressure and sleeping problems. Kingworm- apply root paste to cure ringworm Roots Melia Melia Meliaceae Neem Leaves, Stem, Bark Stem, Bark Stem, Bark Dental caries- stem used as a toothbrush(datan) to prevent dental caries. Dysentery- take leaves and bark past with honey to cure dysentery. Anaemia- take tender leaves cure deficiency anaemia. 19 Shorea robusta Dipterocarpaceae Sal/Sarjom Fruits, Stem Dental care- stem is used as a toothbrush(datan) to prevent toothache and gum bleeding.						Dysentery- taken root past with honey
Sinensis						
Sinensis						***
Malvaceae Jaba Flowers Menstrual disorder- taken crushed floral buds with water and Molasses every morning for seven days during menstruation to cure the menstrual disorder. Alopecia- flowers are heated with ecocount oil applied on the head for hair growth. High blood pressure and sleeping problems. Taking cooked leaves is beneficial for high blood pressure and sleeping problems. Taking cooked leaves is beneficial for high blood pressure and sleeping problems. Roots Ringworm- apply root paste to cure ringworm Skin infection- leaves paste is applied on the infected skin area. Ringworm- apply root paste to cure ringworm Skin diseases the past of leaves with turmeric is beneficial for skin disease. Dental caries- stem used as a toothbrush(datan) to prevent dental caries. Dysentery- take leaves and bark past with honey to cure dysentery. Anaemia- take tender leaves cure deficiency anaemia. Pental care- stem is used as a toothbrush(datan) to prevent toothache and gum bleeding. Pental care- stem is used as a toothbrush(datan) to prevent toothache and gum bleeding. Pental care- stem is used as a toothbrush(datan) to prevent toothache and gum bleeding. Pental care- stem is used as a toothbrush(datan) to prevent toothache and gum bleeding.						
morning for seven days during menstruation to cure the menstrual disorder. Alopecia- flowers are heated with coconut oil applied on the head for hair growth. It deaves and a sleeping problems. Taking cooked leaves is beneficial for high blood pressure and sleeping problems. Taking cooked leaves is beneficial for high blood pressure and sleeping problems. Roots Ringworm- apply root paste to cure ringworm Ringworm- apply root paste to cure ringworm Skin diseases- the past of leaves with turmeric is beneficial for skin disease. Dental caries- stem used as a toothbrush(datan) to prevent dental caries. Dysentery- take leaves and bark past with honey to cure dysentery. Anaemia- take tender leaves cure deficiency anaemia. 19 Shorea robusta Dipterocarpaceae Sal/Sarjom Fruits, Stem Dental care- stem is used as a toothbrush(datan) to prevent toothache and gum bleeding.	15	Hibiscus rosa-	Malvaceae	Jaba	Flowers	
menstruation to cure the menstrual disorder. Alopecia- flowers are heated with coconut oil applied on the head for hair growth. If Marsilea quadrifolia Boraginaceae Hanti sund Leaves and Indicum Boraginaceae Hanti sund Roots Taking cooked leaves is beneficial for high blood pressure and sleeping problems. Taking cooked leaves is beneficial for high blood pressure and sleeping problems. Skin infection- leaves paste is applied on the infected skin area. Ringworm- apply root paste to cure ringworm Skin diseases- the past of leaves with turmeric is beneficial for skin disease. Dental caries- stem used as a toothbrush(datan) to prevent dental caries. Dysentery- take leaves and bark past with honey to cure dysentery. Anaemia- take tender leaves cure deficiency anaemia. 19 Shorea robusta Dipterocarpaceae Sal/Sarjom Fruits, Stem Dental care- stem is used as a toothbrush(datan) to prevent toothache and gum bleeding.		Sinensis				buds with water and Molasses every
disorder. Alopecia- flowers are heated with coconut oil applied on the head for hair growth. It also blood pressure and sleeping problems. Taking cooked leaves is beneficial for high blood pressure and sleeping problems. Taking cooked leaves is beneficial for high blood pressure and sleeping problems. Taking cooked leaves is beneficial for high blood pressure and sleeping problems. Skin infection- leaves paste is applied on the infected skin area. Ringworm- apply root paste to cure ringworm Skin diseases- the past of leaves with turmeric is beneficial for skin disease. Dental caries- stem used as a toothbrush(datan) to prevent dental caries. Dysentery- take leaves and bark past with honey to cure dysentery. Anaemia- take tender leaves cure deficiency anaemia. Pental care- stem is used as a toothbrush(datan) to prevent toothache and gum bleeding.						
Alopecia- flowers are heated with coconut oil applied on the head for hair growth. 16 Marsilea quadrifolia 17 Heliotropium Indicum 18 Melia Azadirachta Meliaceae Neem Leaves, Stem, Bark Meliaceae Neem Leaves, Stem, Bark Stem, Bark Dental caries- stem used as a toothbrush(datan) to prevent dental caries. Dysentery- take leaves and bark past with honey to cure deficiency anaemia. 19 Shorea robusta Dipterocarpaceae Sal/Sarjom Fruits, Stem Dental care- stem is used as a toothbrush(datan) to prevent toothache and gum bleeding.		and the				
Coconut oil applied on the head for hair growth. Coconut oil applied on the head for hair growth.						disorder.
Shusuni						
Marsilea quadrifolia						
Taking cooked leaves is beneficial for high blood pressure and sleeping problems. Taking cooked leaves is beneficial for high blood pressure and sleeping problems. Skin infection- leaves paste is applied on the infected skin area. Ringworm- apply root paste to cure ringworm Skin diseases the past of leaves with turmeric is beneficial for skin disease. Dental caries stem used as a toothbrush(datan) to prevent dental caries. Dysentery- take leaves and bark past with honey to cure dysentery. Anaemia- take tender leaves cure deficiency anaemia. Shorea robusta Dipterocarpaceae Sal/Sarjom Fruits, Stem Dental care- stem is used as a toothbrush(datan) to prevent toothache and gum bleeding. Dipterocarpaceae Sal/Sarjom Fruits, Stem Dental care- stem is used as a toothbrush(datan) to prevent toothache and gum bleeding. Dipterocarpaceae Sal/Sarjom Sal/Sarjom Dental care- stem is used as a toothbrush(datan) to prevent toothache and gum bleeding. Dipterocarpaceae Sal/Sarjom Dental care- stem is used as a toothbrush(datan) to prevent toothache and gum bleeding. Dipterocarpaceae Di	16	Manailea	Margilangan	Chuanni	Lagyag	Ü
Taking cooked leaves is beneficial for high blood pressure and sleeping problems. 17 Heliotropium Indicum Boraginaceae Hanti sund Roots Ringworm- apply root paste to cure ringworm 18 Melia Azadirachta Meliaceae Neem Leaves, Stem, Bark Stem, Bark Dental caries- stem used as a toothbrush(datan) to prevent dental caries. Dysentery- take leaves and bark past with honey to cure deficiency anaemia. 19 Shorea robusta Dipterocarpaceae Sal/Sarjom Fruits, Stem Dental care- stem is used as a toothbrush(datan) to prevent toothache and gum bleeding.	10		Marsheaceae	Snusum	Leaves	
high blood pressure and sleeping problems. 17 Heliotropium Indicum Boraginaceae Hanti sund Roots Roots Ringworm- apply root paste to cure ringworm 18 Melia Azadirachta Meliaceae Neem Leaves, Stem, Bark Stem, Bark Dental caries- stem used as a toothbrush(datan) to prevent dental caries. Dysentery- take leaves and bark past with honey to cure dysentery. Anaemia- take tender leaves cure deficiency anaemia. 19 Shorea robusta Dipterocarpaceae Sal/Sarjom Fruits, Stem Dental care- stem is used as a toothbrush(datan) to prevent toothache and gum bleeding.		quaargona				broneirs-
Problems						<u>C</u>
Boraginaceae						
the infected skin area. Roots Ringworm- apply root paste to cure ringworm 18 Melia Azadirachta Meliaceae Neem Leaves, Stem, Bark Stem, Bark Dental caries- stem used as a toothbrush(datan) to prevent dental caries. Dysentery- take leaves and bark past with honey to cure dysentery. Anaemia- take tender leaves cure deficiency anaemia. 19 Shorea robusta Dipterocarpaceae Sal/Sarjom Fruits, Stem Dental care- stem is used as a toothbrush(datan) to prevent toothache and gum bleeding.	17	Heliotropium	Boraginaceae	Hanti sund	Leaves and	*
Ringworm- apply root paste to cure ringworm 18 Melia Meliaceae Neem Leaves, Stem, Bark Stem, Bark Dental caries- stem used as a toothbrush(datan) to prevent dental caries. Dysentery- take leaves and bark past with honey to cure dysentery. Anaemia- take tender leaves cure deficiency anaemia. 19 Shorea robusta Dipterocarpaceae Sal/Sarjom Fruits, Stem Dental care- stem is used as a toothbrush(datan) to prevent toothache and gum bleeding.		*				
Neem Leaves, Skin diseases the past of leaves with turmeric is beneficial for skin disease.					Roots	
18 Melia Azadirachta Meliaceae Neem Leaves, Stem, Bark Stem, Bark Dental caries- stem used as a toothbrush(datan) to prevent dental caries. Dysentery- take leaves and bark past with honey to cure dysentery. Anaemia- take tender leaves cure deficiency anaemia. 19 Shorea robusta Dipterocarpaceae Sal/Sarjom Fruits, Stem Dental care- stem is used as a toothbrush(datan) to prevent toothache and gum bleeding.						
Stem, Bark Stem, Bark Dental caries- stem used as a toothbrush(datan) to prevent dental caries. Dysentery- take leaves and bark past with honey to cure dysentery. Anaemia- take tender leaves cure deficiency anaemia. 19 Shorea robusta Dipterocarpaceae Sal/Sarjom Fruits, Stem Dental care- stem is used as a toothbrush(datan) to prevent toothache and gum bleeding.	18	Melia	Meliaceae	Neem	Leaves.	
Dental caries- stem used as a toothbrush(datan) to prevent dental caries. Dysentery- take leaves and bark past with honey to cure dysentery. Anaemia- take tender leaves cure deficiency anaemia. 19 Shorea robusta Dipterocarpaceae Sal/Sarjom Fruits, Stem Dental care- stem is used as a toothbrush(datan) to prevent toothache and gum bleeding.						-
toothbrush(datan) to prevent dental caries. Dysentery- take leaves and bark past with honey to cure dysentery. Anaemia- take tender leaves cure deficiency anaemia. 19 Shorea robusta Dipterocarpaceae Sal/Sarjom Fruits, Stem Dental care- stem is used as a toothbrush(datan) to prevent toothache and gum bleeding.					Stem, Bark	Dontol confer story
Dysentery- take leaves and bark past with honey to cure dysentery. Anaemia- take tender leaves cure deficiency anaemia. Dipterocarpaceae Sal/Sarjom Fruits, Stem Dental care- stem is used as a toothbrush(datan) to prevent toothache and gum bleeding.						
Dysentery- take leaves and bark past with honey to cure dysentery. Anaemia- take tender leaves cure deficiency anaemia. Dipterocarpaceae Sal/Sarjom Fruits, Stem Dental care- stem is used as a toothbrush(datan) to prevent toothache and gum bleeding.						` ′ -
honey to cure dysentery. Anaemia- take tender leaves cure deficiency anaemia. 19 Shorea robusta Dipterocarpaceae Sal/Sarjom Fruits, Stem Dental care- stem is used as a toothbrush(datan) to prevent toothache and gum bleeding.						
Anaemia- take tender leaves cure deficiency anaemia. 19 Shorea robusta Dipterocarpaceae Sal/Sarjom Fruits, Stem Dental care- stem is used as a toothbrush(datan) to prevent toothache and gum bleeding.						7 7
19 Shorea robusta Dipterocarpaceae Sal/Sarjom Fruits, Stem Dental care- stem is used as a toothbrush(datan) to prevent toothache and gum bleeding.						honey to cure dysentery.
19 Shorea robusta Dipterocarpaceae Sal/Sarjom Fruits, Stem Dental care- stem is used as a toothbrush(datan) to prevent toothache and gum bleeding.						Anaemia- take tender leaves cure
robusta toothbrush(datan) to prevent toothache and gum bleeding.						deficiency anaemia.
and gum bleeding.	19		Dipterocarpaceae	Sal/Sarjom	Fruits, Stem	
		robusta				=
Dysentery- take fruit to cure dysentery.						and gum bleeding.
						Dysentery- take fruit to cure dysentery.

 joi (0 = 0= 0 10		c 11, 13346 + April 2020 10011. 2020 2
20	Mahua longifolia	Sapotaceae	Mohua/Ma tkom	Flowers, Leaves	Skin diseases- leaves and bark past applied to the affected area. Flowers extract also helpful in curing wounds, burns etc. Hypertension and cough- taking fresh flower juice reduces hypertension and cough.
21	Enhydra fluctuans	Asteraceae	Hincha	Whole Plants	Digestive problems- the whole plants consumed in the morning on an empty stomach cure all gastrointestinal problems. This is used as a liver tonic.
22	Datura stramonium	Nightshade	Dhutra	Leaves	Hair fall- leaves extract is applied on the scalp to hair fall will be cured.
					Arthritis- mix well leaves extract and mustard oil and heat it. then massage the painful area in a slightly warm state; the pain will subside.
23	Ocimum sanctum	Lamiaceae	Tulsi	Leaves	Cough and cold- leaves juice with honey given to children to cure colds and cough
					Cold fever- leaves juice with ginger to cure cold fever.
					Insect bites, skin diseases - applied leaves extract to the affected area to cure
			_		insect bites and skin diseases.
24	Jatropha gossypifolia	Euphorbiaceae	veranda	Stem	Gum bleeding- stem is used as a toothbrush(datan) to prevent toothache and gum bleeding.
25	Centella	Ap <mark>iaceae</mark>	Thankuni	Whole Plant	Stomach pain- four whole plants with
	asiatica		7		roots, a small amount of mango bark, one pineapple leaf, and raw turmeric juiced and consumed on an empty stomach cure stomach pain. Dysentery- take 5-6 leaves every
26	Anala	Dutagaga	Dol	Fruit, Leaves	morning to cure dysentery. Constipation-taken one glass of ripe fruit
26	Aegle marmelos	Rutaceae	Bel	Fruit, Leaves	juice every morning its relieving
	marmetos				constipation
					For cold fever- take one teaspoon of leaves extract in the morning.
27	Bombax ceiba	Bombacaceae	Shimul	Flowers, Bark	White discharge- frying flowers with ghee, spread a little salt and take 2 grams of it twice a day.
20					Blood dysentery- 2grms crushed bark mixed with goat's milk and consume twice a day.
28	Mimosa pudica	Legumes	Lojjaboti	Leaves, Root	White discharge - taken leaves extract with sugar in the morning. Piles leaves and root extract give relief
					from piles
29	Paederia foetida	Rubiaceae	Gandal Pata	Leaves	Digestive problems- The leaves are cooked with vegetables, which are taken
	foetida		raia		to cure the digestive disorder.

Conclusion:

This study indicated that santal people in the study areas have a sound knowledge of herbal medicine. This ethnomedical knowledge is transferred from generation to generation in santal society. This traditional knowledge of Santal peoples on medical plants should be conserved through its documentation and has to be used in modern medicine by further pharmacological studies.

References:

- [1] R. C. Laloo, L. Kharlukhi, S. Jeeva, and B. P. Mishra, "Status of medicinal plants in the disturbed and the undisturbed sacred forests of Meghalaya, northeast India: Population structure and regeneration efficacy of some important species," *Curr Sci*, vol. 90, no. 2, 2006.
- [2] P. Sheng-Ji, "Ethnobotanical Approaches of Traditional Medicine Studies: Some Experiences from Asia," *Pharm Biol*, vol. 39, no. sup1, 2001, doi: 10.1076/phbi.39. s1.74.0005.
- [3] M. Mosaddegh, F. Naghibi, H. Moazzeni, A. Pirani, and S. Esmaeili, "Ethnobotanical survey of herbal remedies traditionally used in Kohghiluyeh va Boyer Ahmad province of Iran," *J Ethnopharmacol*, vol. 141, no. 1, 2012, doi: 10.1016/j.jep.2012.02.004.
- [4] R. K. Sinha and Shweta Sinha, *Ethnobiology*. Surabhi Publication, 2001.
- [5] Mishra TK, Banerjee SK, and Pal DC, *An Omnibus of Non-Timber Forest Products of India*. International Book Distributors Publishers & Printers. Dehra Dun. India., 2004.
- [6] R. Silambarasan and M. Ayyanar, "An ethnobotanical study of medicinal plants in Palamalai region of Eastern Ghats, India," *J Ethnopharmacol*, vol. 172, 2015, doi: 10.1016/j.jep.2015.05.046.
- [7] S. Some, A. Ghosh, J. Mukherjee, and D. Basu, "Study of Some Traditionally Important Medicinal Plants for Primary Healthcare by Local People in the Northern Part of Malda District, West Bengal (India)," *Int J Curr Res Acad Rev*, vol. 5, no. 7, pp. 1–9, Jul. 2017, doi: 10.20546/ijcrar.2017.507.001.
- [8] J. Mistry, "TRADITIONAL MEDICINAL PLANTS USED BY LOCAL PEOPLE OF MURSHIDABAD DISTRICT, WEST BENGAL, INDIA," 2015. [Online]. Available: www.wjpps.com
- [9] A. Mukherjee, "Herbal remedies in use in Hooghly District, West Bengal: an ethnomedicinal documentation Macrophyte diversity in wetlands of Purulia district, West Bengal View project Flora India Project of BSI View project," 2015. [Online]. Available: https://www.researchgate.net/publication/303718883
- [10] C. H. Rahaman and S. Karmakar, "Ethnomedicine of Santal tribe living around susunia hill of Bankura district, West Bengal, India: The quantitative approach," *J Appl Pharm Sci*, vol. 5, no. 2, 2015, doi: 10.7324/JAPS.2015.50219.
- [11] Prain D, "Bengal Plants," Botanical Survey of India, Calcutta, 1963.
- [12] A. Radcliffe-Smith and D. N. G. Bakshi, "Flora of Murshidabad District, West Bengal, India," *Kew Bull*, vol. 40, no. 4, 1985, doi: 10.2307/4109879.

