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Studies on medicinal plant from tehsil Mangalwedha district Solapur, Maharashtra, India

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Abstract

The knowledge of traditional medicines is handed down from generation to generation over the centuries and it is usually used for the treatment of common diseases. The present survey was done in Mangalwedha tehsil in the year 2021-2022. Mangalwedha is a central zone/ tansitional town in the Solapur district in state of Maharashtra its lies between 17° 30′ 39.5496″ N latitude and 75° 27′ 7.0200″ E longitude with 1140.9 Sq. Km area. During the survey, a total of 80 valuable medicinal plants species belonging to 36 families were identified. The information of use of these medicinal plants, collection relevant information is documented with their botanical names, family, common name in concern with use by the local people for different purposes. The area is rich in biodiversity. 80 species belonging to 39 families of flowering plants species have been used by various remedies. The information from the traditional healer's is rich and faithful source for traditional knowledge regarding medicinal plants.

Keywords: survey, medicinal plants, Mangalwedha, Solapur, Maharashtra, India

Introduction

The knowledge of traditional medicines is handed down from generation to generation over the centuries and it is usually used for the treatment of common diseases. The Indigenous communities of India were found to be using about 8,000 species for medicinal uses from about more than 10,000 wild species. According to (WHO) World Health Organization, about 80% of indigenous populations in developing countries uses the traditional medicines for primary treatment of common diseases. (Chandanshive *et. al.*, 2022) [2].

In the world, India ranks 6th among 12 mega diversity countries which is a treasure for endemic medicinal plants. (Samudra and Shinde, 2021) [14]. Medicinal plants have an important role in the wealthy life of people. In India, Ethno-medicinal heritage is continued even today from several centuries through rural and remote areas. The ayurvedic medicines were documented in Rig-Veda, Atharva-Veda and Sushruta from ancient times. (Dhulgande *et al.*, 2021) [4].

Medicinal plants produce chemical substances, synthesized by plants which are also known as secondary metabolites. They can be used in the form of ayurvedic and allopathic medicines. The use of herbal remedies has been described in ancient texts such as the Vedas and the Bible. (Torane *et al.*, 2021)^[16]. It is estimated that from algae and angiosperms 70,000 plant species have been used which are medicinally useful. The herbal drugs are also known as ayurvedic medicine while the synthetic drugs and chemical molecular drugs are known as allopathic medicines. (Tembhurne and Nanir, 2012)^[15].

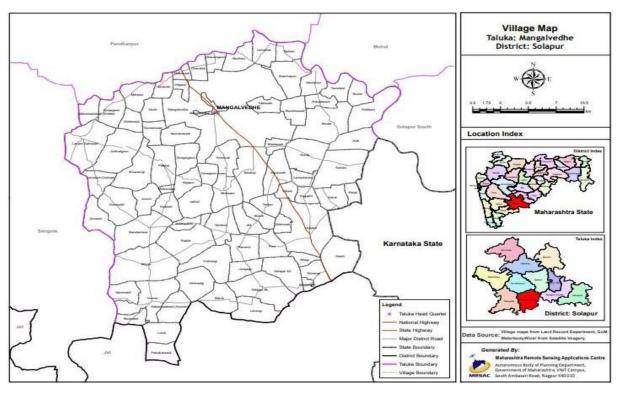
Medicinal plants are the essential natural resources. The preservation of traditional knowledge can be effectively documented by the pervasive participation of local herbal-healers. This survey is carried out so as to collect and document valuable information about diversity of medicinal plant species used by local people in and around Mangalwedha tehsil. The result of this survey can be beneficial for the improvement of traditional practitioners. In Mangalwedha tehsil, the survey of medicinal plants was practically ignored. Hence it was felt to undertaken the study.

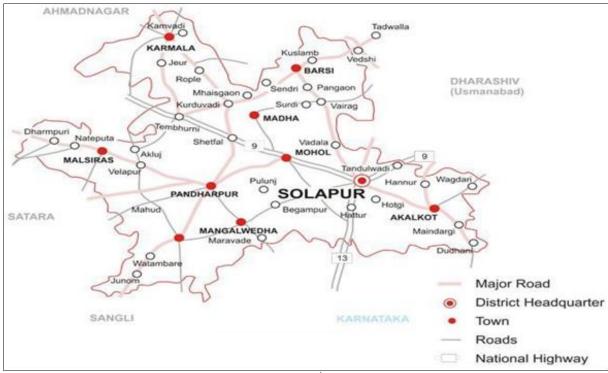
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Materials and Methods

Mangalwedha is a central zone transitional town in the Solapur district in state of Maharashtra its lies between 17° 30′ 39.5496″ N latitude and 75° 27′ 7.0200″ E longitude with 1140.9 Sq.Km area. Solapur district is bounded on the north by Ahmednagar and Osmanabad districts, on the east by Osmanabad and Gulbarga (Karnataka State) districts, on the south by Sangli and Bijapur (Karnataka State) and on the west by Satara and Pune districts.

The present investigation of medicinal plants is done in Mangalwedha tehsil of district Solapur, Maharashtra during time period 2021-2022. The field work was conducted in several villages around the Mangalwedha tehsil, of district Solapur is during 2021-22. The information was collected from local peoples, medicine man, vaidus and farmers. Through this visit the names and uses of medical plant were documented in the present paper. (Maruti Shahne and V.D. Devarkar).







Study area

The traditional knowledge and uses about the plant for the treatment of the common diseases was collected from people especially traditional village medicines. (Harney N.V, 2013) ^[5]. The present study of the ethno-medicinal data collection was based on the Mangalwedha tehsil. This field study survey was carried out by arranging botanical excursions for documenting ethno-medicinal uses of local medicinal plants. Field survey is carried out at monthly interval during Jan 2021- Jan 2022 to document the ethno-medicinal plants with respect to uses medicinal plants of the area. The plants were collected and identified with the help of available literature and classical flora's such as Hooker (1872-1897), Cooke (1901- 1908), Yadav and Sardesai (2002), A.V. Karne. And also, from different regional flora's such as flora of Kolhapur district, flora of Baramati tehsil and flora of Solapur district. The collected material is pressed and deposited in the herbarium. The information from this survey is that, the information given by the local people about medicinal plants and their medicinal use, helped a lot while publishing this work. (Rajasamarsen K. Modi and Pratima Mathad, 2016) ^[13].

Results

Table 1

Acacia arabica Willd. Babhul Fabaceae Dental use, Relieves pain.	Sr. No	Botanical Name	Local Name	Family	Medicinal Uses
2 Acalypha indica L Kupi Euphorbiaceae Anti-cancer, Antidiabetic	1			•	
Achyvanthes aspera L Aghada Amaranthaceae Boils, Cold, Asthma, Dysentery	2				
Adathoda vasica Nees Adulsa Acanthaceae Bronchitis, Tuberculosis					,
Sample Rutaceae Anti-inflammatory					
Agave americana L					,
Allium sativum L Garlic Amaryllidaceae Lower blood sugar level, Blood cholesterol, Diabetes					·
Allium sativum L Garlic Amaryllidaceae High blood pressure, Tuberculosis.		•			
Solution Alsonia scholaris (L.) R. Br Apocynaceae Apocynaceae Treat diarrhea, Dysentery.	7	Allium cepa L	Onion	Amaryllidaceae	
Alstonia scholaris (L.) R. Br Saptaparni Apocynaceae Annona squamosal L Sitaphal Annonaceae Cancerous tumors, Abcessese. Annona reticulate L Ramphal Annonaceae Annthelimitic, Analgesic			Garlic	Amaryllidaceae	High blood pressure, Tuberculosis.
11		Aloe vera (L.) Burm.f.	Korphad	Asphodelaceae	Heal burns, Clear acne
Annona reticulate L Ramphal Annonaceae Anthelmintic, Analgesic	10	Alstonia scholaris (L.) R. Br	Saptaparni	Apocynaceae	Treat diarrhea, Dysentery.
Argemone mexicana L Mexican prickly poppy Shatavari Asparagus racemosus Willd Shatavari Asparagus racemosus Willd Shatavari Asparagaceae Boost immune system, Cough	11	Annona squamosal L	Sitaphal	Annonaceae	Cancerous tumors, Abscesses.
Asparagus racemosus Willd Asparagus racemosus Willd Asparagus racemosus Willd Shatavari Asparagaceae Boost immune system, Cough	12	Annona reticulate L	Ramphal	Annonaceae	Anthelmintic, Analgesic
Asparagus racemosus Willd Shatavari Asparagaceae Boost immune system, Cough	12		Mexican	Papaveraceae	Rheumatism, Jaundice, Leprosy, Microbial
15	13		prickly poppy		infections, Malaria
16 Barleria prionitis L Koranti Acanthaceae Toothache, Glandular swellings 17 Bauhinia variegate L Kanchan Fabaceae Diabetes, Ulcer 18 Bauhinia racemosa Lam. Aapata Fabaceae Treatment of headache, Fever 19 Bambusa bamboo (L.) Voss Bamboo Poaceae Anti-inflammatory, Astringent 20 Opuntia elatior Mill. Nivdung Prickly Pear Cactaceae Anti-inflammatory, Astringent 21 Caesalpinia pulcherrima (L.) Sw. Shankasur Fabaceae Minor injuries, Relieve fever 22 Calotropis gigantea (L.) Dryand. Rui Apocyanaceae Digestive, Respiratory, Circulatory disorders 23 Carica papaya L Papaya Caricaceae Intestinal parasite infections 24 Senna auriculata (L.) Roxb. (Synom: Cassia auriculata L.) Eabaceae Constipation, Jaundice, Diabetes 25 Cassia fistula L Bahava Fabaceae Inflammatory swellings 26 Catharanthus roseus (L.) G.Don (Vinca rosea L.) Sadafuli Apocynaceae Relieve muscle pain, Depression 27 Chrysanthemum indicum L Shevanti Asteraceae Scurvy, Fevers, Rheumatism 29 Citoria ternatea L Gokarn Fabaceae Antidepressant, Anticonvulsant 30 Colocasia esculenta (L.) Schott Alu Araceae Neurological and Skin disorders 31 Cymbopogon schoenanthus Spreng Gavatichaha Poaceae Laxative, Coolant, Expectorant 32 Cynodon dactylon (L.) Pers Harali Poaceae Laxative, Coolant, Expectorant 33 Dalbergia sissoo Roxb Sheesam Fabaceae Scorpion bite, Bronchitis 34 Datura stramonium L Dhattura Solanaceae Scorpion bite, Bronchitis 36 Phyllanthus emblica L Avala Stalantaceae Antipyretic, Analgesic A					Boost immune system, Cough
Bauhinia variegate L Kanchan Fabaceae Diabetes, Ulcer		Azadirachta indica A.Juss.	Neem	Meliaceae	Treat acne, Fungal infection
18 Bauhinia racemosa Lam. Aapata Fabaceae Treatment of headache, Fever 19 Bambusa bamboo (L.) Voss Bamboo Poaceae Anti-inflammatory, Astringent 20 Opuntia elatior Mill. Nivdung Prickly Pear Cactaceae Antioxidant 21 Caesalpinia pulcherrima (L.) Sw. Shankasur Fabaceae Minor injuries, Relieve fever 22 Calotropis gigantea (L.) Dryand. Rui Apocyanaceae Digestive, Respiratory, Circulatory disorders 23 Carica papaya L. Papaya Caricaceae Intestinal parasite infections 24 Senna auriculate (L.) Roxb. (Synom: Cassia cauriculata L) Tarvad Fabaceae Constipation, Jaundice, Diabetes 25 Cassia fistula L Bahava Fabaceae Inflammatory swellings 26 Catharanthus roseus (L.) G.Don (Vinca rosea L.) Sadafuli Apocynaceae Relieve muscle pain, Depression 27 Chrysanthemum indicum L Shevanti Asteraceae Scurvy, Fevers, Rheumatism 29 Citicria ternatea L Gokarn Gokarn Fabaceae Antidepressant, Anticonvulsant	16	Barleria prionitis L	Koranti	Acanthaceae	Toothache, Glandular swellings
Depuntia elatior Mill.	17	Bauhinia variegate L	Kanchan	Fabaceae	Diabetes, Ulcer
20 Opuntia elatior Mill. Nivdung Prickly Pear (L.) Seasalpinia pulcherrima (L.) Sw. Cactaceae Antioxidant 21 Caesalpinia pulcherrima (L.) Sw. Shankasur Fabaceae Minor injuries, Relieve fever 22 Calotropis gigantea (L.) Dryand. Rui Apocyanaceae Digestive, Respiratory, Circulatory disorders 23 Carica papaya L Papaya Caricaceae Intestinal parasite infections 24 Senna auriculata L (L.) Roxb. (Synom: Cassia auriculata L) Tarvad Fabaceae Constipation, Jaundice, Diabetes 25 Cassia fistula L (Synom: Cassia auriculata L) Bahava Fabaceae Inflammatory swellings 26 Catharanthus roseus (L.) G.Don (Vinca rosea L) Sadafuli Apocynaceae Relieve muscle pain, Depression 27 Chrysanthemum indicum L (L.) Osbeck Lemon (L.) Osbeck Lemon (L.) Osbeck (L.) Godarn (L.) Osbeck Lemon (L.) Osbeck (L.) Godarn (L.) Osbeck (L.) Godarn (L.) Schott (L.) Schott (L.) Schott (L.) Schott (L.) Godarn (L.) Schott (L.) S	18	Bauhinia racemosa Lam.	Aapata	Fabaceae	Treatment of headache, Fever
Caesalpinia pulcherrima (L.) Sw. Shankasur Fabaceae Minor injuries, Relieve fever	19	Bambusa bamboo (L.) Voss	Bamboo	Poaceae	Anti-inflammatory, Astringent
Calotropis gigantea (L.) Dryand. Rui Apocyanaceae (L.) Dryand. Papaya Caricaceae Intestinal parasite infections	20	Opuntia elatior Mill.		Cactaceae	Antioxidant
Carica papaya L Papaya Caricaceae Intestinal parasite infections	21		Shankasur	Fabaceae	Minor injuries, Relieve fever
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Sadarun Apocynaceae Relieve muscle pain, Depression	25	Cassia fistula L	Bahava	Fabaceae	Inflammatory swellings
Chrysanthemum thatcum L Shevaliti Asteraceae respiratory diseases	26	* *	Sadafuli	Apocynaceae	Relieve muscle pain, Depression
29Clitoria ternatea LGokarnFabaceaeAntidepressant, Anticonvulsant30Colocasia esculenta (L.) SchottAluAraceaeNeurological and Skin disorders31Cymbopogon schoenanthus Spreng.GavatichahaPoaceaeAnti-spasmodic, Fever32Cynodon dactylon (L.) PersHaraliPoaceaeLaxative, Coolant, Expectorant33Dalbergia sissoo Roxb.SheesamFabaceaeUlcers, Fever34Datura stramonium LDhatturaSolanaceaeRespiratory decongestion, Dental and Skin infections35Delonix regia (Boj. Ex Hook.) Raf.GulmoharFabaceaeScorpion bite, Bronchitis36Phyllanthus emblica L.AvalaAllanthaceaeAntipyretic, Analgesic	27	Chrysanthemum indicum L	Shevanti	Asteraceae	
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30Colocasia esculenta (L.) SchottAluAraceaeNeurological and Skin disorders31Cymbopogon schoenanthus Spreng.GavatichahaPoaceaeAnti-spasmodic, Fever32Cynodon dactylon (L.) PersHaraliPoaceaeLaxative, Coolant, Expectorant33Dalbergia sissoo Roxb.SheesamFabaceaeUlcers, Fever34Datura stramonium LDhatturaSolanaceaeRespiratory decongestion, Dental and Skin infections35Delonix regia (Boj. Ex Hook.) Raf.GulmoharFabaceaeScorpion bite, Bronchitis36Phyllanthus emblica L.AvalaAllanthaceaeAntipyretic, Analgesic	29	Clitoria ternatea L	Gokarn	Fabaceae	Antidepressant, Anticonvulsant
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	35		Gulmohar	Fabaceae	Scorpion bite, Bronchitis
	36	Phyllanthus emblica L.	Avala	RC yllanthaceae	Antipyretic, Analgesic

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Ficus benyghalensis I. Vad Moraceae Spongy gums, Leucorrhea, Urinary problems, Asthma	37	Eucalyptus globulus Labill.	Nilgiri	Myrtaceae	Arthritis and Skin ulcers
Ficus glomerata I.				•	
Hibiscus roraca L. Anjir Moraceae Moraceae Gastrointestinal diseases	39	Ficus benghalensis L.	vad	Moraceae	
Ficus religiosa (L) Forssk. Pimpal Moraceae Epilepsy, Sexual disorders	40	Ficus glomerata L	Umbar	Moraceae	
Hibiscus rosa-simensis L Jaswand Malvaceae Hair loss, Gastric ulcers, Coughs	41	Ficus carica L.	Anjir	Moraceae	
Harrios, Gastrie utcers, Cogns Harrios, Gastrie utcers, Cogns Lasminum auriculatum Vahl Mogra Oleaceae Burning mictruition, Wounds Kalanchoe pinanata (Lam.) Pers. (Bryophyllum pinantum (Lam.) Oken) Oken	42	Ficus religiosa (L) Forssk.	Pimpal	Moraceae	Epilepsy, Sexual disorders
Kalanchoe pinnatan (Lam.) Pers. (Bryophyllum pinnatum (Lam.) Oken)	43	Hibiscus rosa-sinensis L	Jaswand	Malvaceae	Hair loss, Gastric ulcers, Coughs
Kalanchoe pinnatan (Lam.) Pers. (Bryophyllum pinnatum (Lam.) Oken)	44	Jasminum auriculatum Vahl	Mogra	Oleaceae	Burning micturition, Wounds
Annication Ann		(Bryophyllum pinnatum (Lam.)			Kidney stones, Pulmonary infection,
Astronomical acidissima L Wood apple Rutaceae Diarrhea, High cough	46	Lantana camara L	Tantani	Verbenaceae	Cancer, Leprosy, Chicken pox
Mangifera indica L Mango Anacardiaceae Lower blood pressure, Regular pulse, Stabilize digestive system	47	Lawsonia inermis L	Henna tree	Lythraceae	Skininfections, Wounds, Eczema
Manglera indica L Mint Lamiaceae Stabilize digestive system	48	Limonia acidissima L	Wood apple	Rutaceae	Diarrhea, High cough
Stimulate South Special South Special Stimulate Special Stimulate Special Sp	49	Mangifera indica L	Mango	Anacardiaceae	
Stimulate Stim	50	Mentha spicata L	Mint	Lamiaceae	
Signonaceae		-			
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Shevga					
State	53	Momordica charantia L	Karla	Cucurbitaceae	
Standard Residence Standar	54	Moringa oleifera Lam	Shevga	Moringaceae	
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Signatur Signatur	56		Kanher	Apocyanaceae	Heart conditions, Epilepsy, Painful
See Ocimum tenuiflorum L Tulas Creeping woodsorrel	57	Nyctanthes arbor-tristis L	Parijatak	Oleaceae	
Oxalis corniculata L Creeping woodsorrel		Ž			• •
Pithecellobium dulce (Roxb.) Benth. Chinch Fabaceae Gum ailments, Toothache		*	Creeping		Traumatic injuries, Sprains and Poisonous
Chinch Pabaceae Gum aliments, Tootnache		Pithecellohium dulce			·
Polyalthia longifolia (Sonn.) Thwaites Ashok Thomates Helminthiasis, Cardiac problems	60			Fabaceae	Gum ailments, Toothache
62 Pongamia pinnata (L.)Pierre Karanj Fabaceae Tumors, Piles, Skin diseases 63 Psidium guajava L Peru Myrtaceae Gastroenteritis, Cough, oral ulcers 64 Punica granatum L Pomegranate Lythraceae Digestive, Skin disorders, Arthritis 65 Ricinus communis L Castor Euphorbiaceae Backache, Muscle aches, Bilharziasis, Expulsion of placenta, Gallbladder pain, Menstrual cramps, Insomnia 66 Santalum album L Chandan Santalaceae Bronchitis, Fever, Sore mouth 67 Senegalia catechu (L.f.) P.J.H.Hurter & Mabb. Khair Fabaceae Indigestion, Osteoarthritis 68 Sesbania sesban (L.) Merr Shevari Fabaceae Gonorrhea, Syphilis, Jaundice 69 Spathodea campanulate P.Beauv. Pichkari Bignoniaceae Urethral inflammation, Liver complaints, as a poison antidote 70 Syzgium cumini (L.) Skeels Jambhul Myrtaceae Bronchitis, Asthma, Bilousness 71 Tamarandus indica L Chinch Fabaceae Diarrhea, Respiratory problems 72 Tertinalia arjuna (Roxb.) Wight & Arn Arjun Co	61	Polyalthia longifolia (Sonn.)		Annonaceae	Helminthiasis, Cardiac problems
Peru Myrtaceae Gastroenteritis, Cough, oral ulcers	62		Karani	Fahaceae	Tumors Piles Skin diseases
64					
Backache, Muscle aches, Bilharziasis, Expulsion of placenta, Gallbladder pain, Menstrual cramps, Insomnia				•	
Senegalia catechu (L.f.) P.J.H.Hurter & Mabb. Khair Fabaceae Indigestion, Osteoarthritis		V		-	Backache, Muscle aches, Bilharziasis, Expulsion of placenta, Gallbladder pain,
Senegalia catechu (L.f.) P.J.H.Hurter & Mabb. Khair Fabaceae Indigestion, Osteoarthritis	66	Santalum album L	Chandan	Santalaceae	
68Sesbania sesban (L.) MerrShevariFabaceaeGonorrhea, Syphilis, Jaundice69Spathodea campanulate P.Beauv.PichkariBignoniaceaeUrethral inflammation, Liver complaints, as a poison antidote70Syzgium cumini (L.) SkeelsJambhulMyrtaceaeBronchitis, Asthma, Biliousness71Tamarandus indica LChinchFabaceaeDiarrhea, Respiratory problems72Tectona grandis L.f.SagLamiaceaePiles, Leucoderma, Bronchitis73Terminalia arjuna (Roxb.) Wight & ArnArjunCombretaceaeAsthma, Bile duct disorders74Terminalia catappa LBadamCombretaceaeScabies, Leprosy wounds75Tinospora cordifolia (Thunb.) 	67	Senegalia catechu	Khair	Fabaceae	
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Discussion

Above Data of medicinal plants survey from the area under study revealed that 80 species belonging to 39 families of flowering plants are used as traditional medicines by the local people. Medicinal plants were collected along with the documentation of significant information regarding their scientific names, families, common names and used by the local people for different purposes. Ethnomedicinal plant survey during observed in different regions the traditional knowledge has become extinct in some communities. There was none to carry the knowledge to the next generation it not documented properly. The knowledge shall be lost without any means for retrieval. (Torane *et. al.*, 2021)^[16].

Plants photographs





Plants photographs



Fig 3

Conclusion

The studied area is rich in traditional and herbal medicines with diversity of medicinal significance. Mangalwedha tehsil has a rich source of medicinal plants such as *Aloe vera Adathoda vasica*, *Tinospora cordifolia*, *Oscimum sanctum*, *Mentha spicata* and *Calotropis proceraare* important medicinal plants used by Ayurvedic practitioners, Vaidas, farmers, medicine men and people of Mangalwedha Tehsil. It will give the awareness for use of medicinal plants for future study.

Acknowledgment

The authors are grateful to Principal of Shri Sant Damaji Mahavidyalaya, Mangalwedha for providing necessary facilities. The authors are also thankful to local people, medicine men, Vaidas and farmers for sharing with us their knowledge with us. From the above information we got some extra knowledge about medicinal plants and thus we were able to successfully complete this survey.

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