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Research Article Ethno-medicinal Uses of Plants from District Bahawalpur, Pakistan

^{1, 4}Muhammad Farrukh Nisar, ²Farrukh Jaleel, ³Muhammad Waseem, ⁴Sajil Ismail, ⁵Yasmin Toor, ⁵Syed Mujtaba Haider and ¹Julia Li Zhong
 ¹College of BioEngineering,
 ²College of Chemistry and Chemical Engineering, Chongqing University, Chongqing 400044, China
 ³Department of Biology, Allama Iqbal Open University, Islamabad 44000, Pakistan
 ⁴Department of Botany, Govt. Sadiq Egerton College, Bahawalpur, Pakistan

⁵Department of Botany, University of Guirat, Guirat 50700, Pakistan

Abstract: The present study conducted in district Bahawalpur of Southern Punjab province, Pakistan to enlist the medicinal plants and their uses among local people. Previous studies focus primarily on the exploration of medicinal plants of Cholistan desert while rest of the area remained un-explored. The ethno-medicinal survey was conducted regularly for a period of 10 years and tries to eradicate the errors in the utilizations of the plants and to finally to document ethno-medicinal uses of plant species through questionnaire and personal interviews during field trips. Plants with their correct nomenclature were arranged by family name, vernacular name, parts used and ethno-medicinal uses. For the identification of plants we used field guides and flora of Pakistan and as a result 123 plant species currently under utilization by local people were identified. Previously we collected all the plant specimens, after careful identification we preserved and mounted on herbarium sheets, were placed in the department of Botany, Govt. Sadiq Egerton College, Bahawalpur, Pakistan. The study will provide a baseline for future studies relating to pharmacological, chemical isolations, taxonomic and well as biochemical studies by giving a quick approach to the specific plant species.

Keywords: Bahawalpur, biochemical, ethno-medicine, pharmacological, plants, questionnaire

INTRODUCTION

From prehistoric times to date herbal medicines have got a distinct place. Both human and plant usage history are of the same age but the authentic evidence regarding the usage of plants is found in Rig Veda between 4500-1600 BC and Ayurveda between 2500-600 BC (Shah and Khan, 2006). The different medicinal plants historically being used from their discovery for food (Ibrar, 2002). Later spread to various other countries, Greek medicine, which then to Arabs and then spread to India and Europe but still this system of medication is serving about 80% of world population (Shah and Khan, 2006; Ahmad, 1999). Keeping in view the importance of medicinal flora, Pakistan is an enriched ecological zone, in which medicinal plants have been used as traditional medicine for human health care as well as animals (Ismail and Nisar, 2010; Rashid and Arshad, 2002). Nearly six thousand species of flowering plants have been reported in Pakistan including Kashmir (Shinwari and Khan, 1999).

While 2,000 species have been reported as medicinal plants but only a small portion is being processed on commercial bases (Cotton, 1996). Most of

the allopathic drugs are being extracted from the medicinal plants (Rashid and Arshad, 2002). About 80% of the population of Pakistan is using these plants as traditional medicine (Ahmad *et al.*, 2003) but due to lake of exposure these species are limited to the native area, almost 90% of the population of remote areas is dependent on these plant (Baquar, 1989). Due to their limited side effect and easily available in nature (Evans, 2002; Ismail and Nisar, 2010, Hussain *et al.*, 2010).

This is indicative of the vast repository of knowledge of plant medicine that is still available for global use, provided of course that it does not get lost before it can be tapped or documented. Traditional and indigenous medical knowledge of plants, both oral and codified, are undoubtedly eroding as only a small number of people in a community are familiar with their medicinal uses. The important values of some plants have long been published but a large number of them remain unexplored as yet. Naturally plenty of plants species with medicinal properties are present which in easy access to humans (Shafi *et al.*, 2001; Hameed *et al.*, 2011). So there is a necessity to explore their uses and to conduct pharmacognostic and pharmacological studies to ascertain their therapeutic

Corresponding Author: Muhammad Farrukh Nisar, College of BioEngineering, Chongqing University, Chongqing 400044, China, Tel.: 0092-3457100555; 0086-23-65111632

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properties (Baquar, 1989). Various scientists reported various plants species with the ethanomedicinal properties in a systematic way to document the eroding folk plant usage knowledge (Shinwari, 1996; Bhatti *et al.*, 2001; Qureshi *et al.*, 2002, 2009, 2010; Qureshi and Bhatti, 2008; Hussain *et al.*, 2010; Nisar *et al.*, 2011; Arshad *et al.*, 2011).

Keeping in view the importance of medicinal flora of district Bahawalpur in Southern part of Punjab province, Pakistan, the study was confined to collect and document the indigenous knowledge of local people about medicinal uses of native plants. Furthermore, we collected the data few garden plants as well to give a preliminary draft about the medicinal wealth of the area. The present study was aimed to document the traditional knowledge of plants being used to treat various diseases in Bahawalpur district excluding the Cholistan area.

MATERIALS AND METHODS

We initiated this project of exploring the flora of Bahawalpur district and the southern part of Punjab province in 2004 at the department of Botany, Government Sadiq Egerton College, Bahawalpur, Pakistan. Continuous field trips were arranged time to time in almost year round throughout the 10 years (2004-2013) in order to collect information about the ethno-medicinal and household uses of plants by the local people in Bahawalpur district, Punjab, Pakistan. Standard methods were opted for the collection of plant specimens, making herbarium and finally deposited in the department for ready reference following Nasir and Ali (2001). But later we initiated to develop a digital data by taking the photographs of each and every plant species almost in every season and in every stage of life history of the plant. Same area and same plant species were confirmed many times to eradicate the errors in knowledge among the people at various sites for the same plant species to omit biasness. Plants with their correct nomenclature were arranged alphabetically by family, botanical name, vernacular name, parts used and ethno-medicinal uses. The identification and nomenclature of the listed plants were based on The Flora of Pakistan (Nasir and Ali, 1970-1989) and a field guide by Chaudhary (1969, 1989, 1999). A questionnaire method was adopted for documentation of ethno-medicinal knowledge. About 250 informants have been interviewed on random basis. The indigenous medicinal plants having traditional knowledge of utilization among the people have been selected as reference specimens.

Table 1: List of various plant species used as medicines by local people

Family	Botanical name	Local name (s)	Part (s) used	Medicinal use (s)
Aizoaceae	Trianthema	It-sit	Whole plant	Anti-fungus, cough, wound-dressing, poultice, gonorrhea
A	portulacastrum		1 1 1 4	and venereal discharge
Amaranthaceae	Achyranthus aspera	Puth-kanda	whole plant	Vomiting, bronchitis, piles, itching abdominal pains, dyspepsia, dysentery, blood purification, kill intestinal worms, gum troubles, rheumatism, asthma and fever
	Aerva javanica	Bui	Flowers, leaves	Sore throat, guinea-worm, malaria, eyewash, diarrhea, help in childbirth and snakebite
	Alternanthera sessilis	Waglon	Whole plant	Vomiting, sleep promoting, headache, neuralgia, snakebite, stimulate bile flow, terminate pregnancies, fever, increase mother milk, improve male sexual potency and to treat acne
	Amaranthus spinosus	Chulai	Leaves and roots	Diuretic, internal bleeding, diarrhea, excessive menstruation, snake bites, vaginal discharges, nosebleeds, wounds, gonorrhea, eczema and fix the broken bones
	Digera arvensis	Tandla	Whole plant	Diuretic and dyspepsia
Anacardiaceae	Mangifera indica	Aam	Flowers, leaves, kernel, bark and fruits	Diarrhea, scabies, rheumatism, round worms vomiting, chronic dysentery, menorrhagia, diabetes, asthma, cough, diarrhea, urethritis, bleeding piles, catarrh of the bladder, chronic urethritis resulting from gonorrhea, contraction of vagina and diuretic
Apocynaceae	Alstonia scholaris	Chatwan	Bark	Diarrhea and dysentery
Apocyniceue	Caraluma edulis	Seetu	Aerial parts, flowers	Emollient, diuretic, liver diseases, diabetes, hypertension healing wounds and cuts, burns, itching, skin cancer and sunburns
	Catharanthus roseus	Vinca	Leaves extract	Insect's sting, stop bleeding, chest ailments, eyewash, rheumatism, diabetes, asthma, flatulence, tuberculosis, dyspepsia, indigestion, malaria and high blood pressure
	Nerium oleander	Kaner	Leaves and roots	Heart diseases, diuretic, antibacterial, snake-bite, scabies, reduces swellings, cancer, ulcers and leprosy and scaly skin treatment
	Oxystelima esculentum		All parts	Used as an aphrodisiac, astringent, diuretic and anti- rheumatic, coughs, gonorrhea and pains, inflammations of muscles/joints, leucoderma and itching
Arecaceaes	Phoenix dactylifera	Khajoor, pind	Fruit, gum and seeds	Astringent for intestine, sour throat, colds, bronchial catarrh, fever, cystitis, gonorrhea, alcohol intoxication, diarrhea, genito-urinary ailments, diuretic, toothache and sexual disorders

Asclepidaceae	Calotropis procera	Aak	Roots, flowers, leaves, latex	Pain and swelling reducing, filariasis, otitis, deafness, wound healing, skin diseases, baldness, piles and tooth-
	Asphodelus	Piazi	Whole plant	ache Diuretic and inflammation
Astaragaga	tenuifolius	Rui	Laavaa	Soreness of throat
Asteraceae	Conyza ambigua Carthamus	Pholi	Leaves Seeds, flowers	Ulcers, itching, tonic, purgative, strengthening liver, joint
	oxyacantha	THOM	and oil	pain reliving, diaphoretic, fevers, measles and eruptive skir treatment
	Eclipta alba	Bhringaraj	Herb, roots, leaves, oil	Hair growth, teeth, memory, sight and hearing, promote sleep, complexion, skin disorders, headache, prevent, relieve labor pain, kill worms, urinary tract infections, piles and tonic
	Launaea procumbens	Jangi gobi	Whole plant	Painful maturation and galactagogue
	Vernonia cinerascens	Simbla	Whole plant	Gingivitis, toothache and antimicrobial
	Launea nudicaulis	Dudhkal	Leaves	Constipation, fever, itching of skins, cuts, ulcers, swellings and toothache
	Sonchus asper	Asgandh	Aerial parts	Regulate menstrual cycle, alter liver function, cancer, inflammation, fever, wounds and burn
	Taraxacum officinale	Dandelion	Roots and leaves	Constipation, liver tonic, headaches, eye problems, gout, skin problems, fatigue and boils
	Xanthium	Kandiari	Leaves roots,	Anodyne, appetizer, diaphoretic, diuretic, emollient,
- · ·	strumarium	Y I	seeds and fruits	malaria, antibacterial, antifungal, antispasmodic, cytotoxic, rheumatism, constipation, diarrhea, leprosy and tumors
Bigoniaceae	Jacaranda mimosifolia	Jacaranda	Whole plant	Antimicrobial action against <i>Bacillus cereus</i> , <i>Escherichia</i> coli and <i>Staphylococcus aureus</i>
	Ticoma stans	Basant bara Masi	Whole plant	Diuretic, tonic, anti-syphilitic, vermifuge, stomach pain, diabetes, muscle relaxant, mild cardio tonic and choleric
				activity
Boraginaceae	Cordea obliqua	Lasoora	Gum, fruit and seeds	Lungs disorder and gonorrhea treatment, disease of the spleen chest diseases, cough, chronic fever treatment and
	Heliotropium strigosum	Gorakh pan	Leaves	anti-inflammatory activity Used to treat sore eyes, boils, sores, wounds, ulcer and snakebite. This plant is laxative and diuretic
	Heliotropium curassavicum	Lani pata	Leaves, roots	Boils and skin diseases mainly
	Heliotropium europaeum	Uth chaaro	Leaves	Pimples, skin eruptions and scaly dried skin
Capparaceae	Capparis deciduas	Kareer	Root, Fruit	Skin boils, eruptions, swelling, chronic, foul ulcers, cough, hiccough, asthma, vomiting, hemorrhoids, intermittent fevers, arthritis, lumbago, dyspepsia, flatulence, constipation, intestinal worms, cardiac debility, gout, dysmenorrheal, cardiac disorders and urinary infection
	Capparis spinosa	Caper	Root, bark and latex	Dropsy, anemia, arthritis, gout, increase the appetite, hepatic stimulantion, improve liver function, gastrointestinal infections, diarrhea, rheumatism, cough,
~	Dipterygium glaucum		Areal part	eye infection, flatulence reduction, diuretic and vermifuge Asthma
Chenopodiaceae	Chenopodium album	Bathoo	Whole plants	Anthelmintic, antiphlogistic, antirheumatic, mildly laxative, insect bites, ulcer, intestinal worms, dyspepsia, urinary retention, kidney diseases, debility and sexual stimulant
Cleomaceae	Cleome viscosa	Kasturi	Whole plant	Kill intestinal worms, colic, cardio sympathy, diarrhea, fever and dyspepsia
Combretaceae	Quisqualis indica	Jhumka bail	Seeds and leaves, fruits	Anthelmintic, anti-inflammatory, tonic, astringent, headaches, diarrhea, fever and dysuria
	Terminalia chebula	Haradh	Fruits and bark	Heating, enhance digestion, excretory, nervous, respiratory and female reproductive system
	Terminalia arjuna	Arjun	Leaf, bark and Fruits	Cardio-tonic, blood dilution, reduces stress, urinary tract infections, reduces burning, spermatorrhea, relives the leucorrhea and excessive menstrual bleeding
Convolvulaceae	Convolvulus arvensis	Leli	Leaves, flowers and root	Spider bites, reduce profuse menstruation, fever, heal wounds laxatives and emetic
	Ipomea carnea	Chota aak	Whole plant	Anti-cenogenic and ototoxic
Cruciferae	Coronopus didymus	Naksari	Whole plant	Pain and inflammation reviling
Cucurbitaceae	Citrullus colocynthis	Tuma	Dried pulp of fruit and root	Tumor, ulcer or cancer cure, constipation and insect repellent
	<i>Cucumis melo</i> var. agrestis	Chiber	Fruit	Digestion and stomach disorders

Table 1: Continu Cuscutaceae	Cuscuta reflexa	Aakas bail	Whole plant	Anthelmintic and carminative, bilious disorders, fevers,
Cyperaceae	Cyperus papyrus	Japani gha	Whole plant	pain killer, itchy skin, diuretic, jaundice and coughs Widening and drying of fistula, eye diseases, ulcers, heal wounds and cancer cures
Euphobiaceae	Cyperus rotundus Chrozophora plicata	Deela Nilakari	Tubers Whole plant	Astringent, appetizer, stomachic, anthelmintic and leprosy Wound thealing, improve healing, jaundice and blood purification
	Euphorbia	Chatri dodak	Leaves, stem,	Febrifuge, vermifuge, anthelmintic, cathartic, anticancer
	helioscopia Euphorbia hirta	Dhoodak	roots, seeds, oil Leaves and its extract	properties and cholera Kill intestinal worms, diarrhea, ulcer, wounds and burn healing
	Euphorbia prostata	Hazar dani	Whole plant	Wasp and scorpion sting, vagina sterility, painful menstruation, inflammations, asthma and blood purification
	Ricinus communis	Arind	Whole plant	Skin boils, swellings, increase milk production in mother, umbago, rheumatism and baldness
Fabaceae	Albizia lebbeck	Shirin	Stem bark	Pain reliving, skin texture improvement, string (insects) bites treatment, skin and respiratory disorders, wounds or injury treatment, blood purification and nasal infusion
	Alhagi maurorum	Jwahan	Whole plant, oil	Diaphoretic, diuretic, expectorant, laxative, rheumatism, piles and tonic
	Bauhinia purpurea	Kachnar	leaf, stem bark	Jaundice, liver disorders, smallpox, arrest diarrhoea and dysentery
	Cassia fistula	Amaltas	Fruit, leaves, bark and root	Constipation treatment, cold, running nose, reducing fever black water fever, ageusia, skin allergy, inflammation of the hands or feet, ringworm, swellings and pain reliving
	Dalbergia sissoo	Tali	Leaves, roots, wood	Gonorrhoea, astringent, alterative, leprosy, eruptions and vomiting
	Delonix regia	Gul mohr	Whole plant	Ailment of constipation, inflammation, arthritis, hemiplagi and eyes disease
	Melilotus parviflora	Sainji	Whole plant, seeds	Antispasmodic, emollient, analgesic, insect repellent, tonic astringent, swellings, tumors, skin rash, wounds, gastrointestinal problems, cold and genital organ diseases
	Pongamia glabra	Sukh chain	Bark, leaves, flowers, seeds and oil	Ulcers, cleaning teeth, strengthening the gums, wounds healing, swellings relief, nasal therapy, alopecia areata, arthritis, indigestion, anorexia, piles, worm infestations, flatulence, liver diseases, hepatosplenomegaly and cough
	Rhynchosia minima	Tin pinda	Leaves	Anthelmintic, woulds healing, helminthic infections, abortifacient, asthma and piles
	Vicia faba	Bakla	Seeds pods	Diuretic, lithontripic, bladder and kidney stones
Lamiaceae	Vicia sativa Osimum bacilicum	Matri Niazbo	Whole plant Leaves, flowers, seeds, root and extract	Metastasis and cancer (cathepsin D inhibiter) Easing flatulence, stomach cramps, colic, indigestion, antispasmodic, aromatic, carminative, galactogogue, stomachic feverish illnesses, nausea, gastro-enteritis, migraine, insomnia, depression, exhaustion, snake bites, skin infections, gonorrhea, dysentery, chronic diarrhea, eyewash, anti-bactericidal, kill intestinal worms and aromatherapy
	Mentha longifolia	Wild mint	Leaves and stem	Colic, menstrual disorders, indigestion, flatulence, pulmonary infection, congestion, headache, fever, cough, colds and urinary tract infections, inembe, swelling, wound healing and bronchial congestion
Leguminosae	Acacia ampliceps	Australin kiker	Leaves	Cholesterol reduction, diabetes, cancer, gingivitis, stomatitis (mouth sores), pharyngitis and indigestion in children
	Crotalaria burhia Prosopis juliflora	Chag Kabli kiker	Whole plant Branches, stems, bark, pods, gum and leaves	Eczema, gout, hydrophobia, swelling and cancer Eyewash, wounds or burn treatment, dermatological ailments, digestive problems, antibacterial, soothing, astringent and antiseptic, purgatives. Fever, bladder infection, measles, stings, hemorrhoids headache, bladder infection and sunburn treatment
Liliaceae	Aloe vera chinensis	Aloe vera	Leaves and its pulp	Wound healing, chronic, dermatitis and radiation burn treatment, cuts, burns, eczema, sunburn, dermatitis, insect stings, poison ivy, abrasions, pain and inflammation
Lythraceae	Lawsonia inerma	Mehndi	All parts	reducing Pain, ulcer, edema, baldness, graying of hair, burning sensation, headache, hepatitis, skin diseases and anemia

Mackinlayaceae	Centella asiatica	Brahmi buti	Leaves	Rheumatism, extra vitality, increasing brain power,
				diabetes, blood circulation enhancement, arthritis, senility, varicose veins and dysentery
Malvaceae	Abutilon indicum	Jhumka	Leaves, roots,	Fevers, chest affections, gonorrhea, urethritis, eyewash,
			flower and	mouthwash, inflammation of the bladder, ulcers, piles and
			seeds	relieving strangury, haematuria and leprosy
	Bombax	Simbal	Gum, seed,	Aastringents for diarrhea, gonorrhea, dysentery, strangury,
	malabaricum		roots, bark and	conjunctivitis of infants, ulceration of the bladder,
	Hibiscus rosa	Gurhal	flowers Leaves and	treatment of genital organs, gonorrhea and inflammation
	sinensis	Guillai	flower	Headache, anodyne, emmenagogue, regulate the menstruation and blood circulation, sprains, ulcers, wounds
	5111011515		nower	and anticancer
	Malva parviflora	Cheeseweed	Whole plant	Swellings, running sores, demulcent cough and ulcer in the
	× v		*	bladder
	Malva sylvestris	Pick-cheese	Leaves	Inflammation, soothing activity, gastric catarrh, enteritis,
		D "		indigestion, ulcers, colitis, diuretic and bladder infection
Meliaceae	Azadirachta indica	Dareik	Whole plant, oil	Leprosy, scrofula, anthelmintic, diuretic, rheumatism,
			and gum	insecticidal, antiseptic for ringworm, scabies, sores and ulcers, malaria fever, leprosy, vermifuge, astringent, tonic,
				anti diabetic, antibacterial, antiviral and blood purification
	Melia azedarach	Neem	Whole plant, oil	Hysteria, leprosy, rheumatism, spleen enlargement also has
			and gum	cathartic, emetic, emmenagogue, resolvent, emetic and
				anthelmintic properties
Mimosaceae	Acacia nilotica	Kiker	Fruit, bark and	Ulcers, leprosy, colds, congestion, coughs, dysentery,
			leaves	fever, gallbladders, hemorrhages, leucorrhea, ophthalmia,
Moragone	Fine house alongia	Dargad	Whole plant	sclerosis, smallpox and tuberculosis Diarrhea, dysentery, piles, teeth cleaning, gum disorders,
Moraceae	Ficus bengaalensis	Bargad	Whole plant	warts and female sterility
	Ficus carica	Anjeer	Leaves, fruit	Piles, stomache, corns, gumboils, tonic for body dental
			and latex	abscesses and anticancer
	Ficus elastica	Rabber plant	Bark, fruits and	Enlargement of liver and spleen, dysentery, diarrhea,
			leaves	diabetes, leprosy, lung complaints, leucorrhoea, heart
				diseases, cough, asthma, piles, ulcers, gonorrhea,
	Figure hungte	Doori notto	Whole plant	rheumatism and for different skin diseases
	Ficus lyrata	Beeri patta	Whole plant	Gastrointestinal problems, anthelmintic, diabetes, anti- tumor activity, asthma, cough, sexual disorders, diarrhea,
				ear-ache and toothache, migraine, eye troubles, scabies,
				gonorrhea, bleeding, paralysis, bone fracture, antiseptic and
				astringent
	Ficus religiosa	Peepal	Whole plant	Ear drops, heart diseases, constipation, vomiting, wounds
				healing, inflammations, stomatitis, ulcers, gout, gum
				diseases, digestion, foul taste, asthma and urinary troubles
	Morus nigra	Black mulberry	Whole plant	Antibacterial, fungicidal, astringent, diaphoretic,
				odontalgic, ophthalmic, colds, influenza, eye infections, nosebleeds, antirheumatic, diuretic, hypotensive, pectoral,
				toothache, expectorant, hypotensive, asthma, coughs,
				bronchitis, oedema and diabetes
Molluginaceae	Limeum indicm		Leaf and stem	Vomiting, indigestion, heart burning, fevers and cold
	Gisekia	Balu ka sag	Whole plant	Anthelmintic and strength restorative, e.g., after
	pharnecioides	D . 11 . 1	Ŧ	miscarriage
Myrtaceae	Callistemon viminalis	Botal brush	Leaves	Antibiotic, antibacterial, insect repellent and to kill
	Euclyptus citriodora	Safeda	Leaves and oil	intestinal parasites Antiseptic and fumigant, cold, lung disorders, ulcers,
	Buciypius curioaord	Salua	Leaves and on	cough, diabetes and Hypoglycemia
	Syzygium jambos	Jaman	Bark and fruits	Liver complaints, diabetes and brain tonic
Nyctaginaceae	Boerhavia	Bashkhira	Roots	Rheumatism, blood purification, cough, asthma, hernia,
	procumbens			dropsy, chest-pain, piles, swellings, gonorrhea and internal
				inflammations
Oleaceae	Jasminum	Chanbeli	Flowers, roots,	Beneficial in stress relief, anxiety and tension, exhaustion,
	grandiflorum		stem and bark	easing depression, dry skin, dermatitis, cancer (bone,
Oxalidaceae	Oralis comiculata	Khati booti	Flowers looves	lymph nodes and breast), headaches and diuretic
Oxanuaceae	Oxalis corniculata	Miati 000ti	Flowers, leaves	Anthelmintic, astringent, antiscorbutic, diuretic, stomachic, febrifuge, styptic, fever, influenza, diarrhea, traumatic
				injuries, urinary tract infections, snakebite, kill hookworms.
				skin rashes, eruptions, insect bites and burns
Papaveraceae	Argemone mexicana	Satyanashi	Roots, leaves,	Diuretic, purgative, destroys worms, leprosy, skin-diseases,
	0	,	seeds and juice	inflammations, bilious fevers, anthelmintic, ophthalmia,
			5	opacity of cornea and kill tape-worm

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Papilionaceae	Tephrosia lupinifolia		Leaves, roots, extract of plant	Insecticide, rodenticide, anthelmintic, abortifacient, to induce menses, diarrhea, ear and tooth ache, tuberculosis,
Pinaceae	Pinus roxburghii	Chir	Areal part	typhoid fever and localized fungal infections Antiseptic, diuretic, vermifuge treatment of kidney and bladder complaints, coughs, colds, influenza, tuberculoses,
Poaceae	Cymbopogon jawarancusa	Khavi	Whole plant	wounds, sores, burns, boils and ulcers Chicken pox
	Arundo donax	Narha	Roots, leaves	Dropsy, cancer, headaches, condyloma, indurations of the breast, diuretic and emollient
	Cymbopogon citratus	Lemon ghaas	Oil of whole plant	Headaches, tonic for the body and nervous system, stimulate glandular secretions, respiratory infections, fever, infectious diseases, indigestion, gastro enteritis and insect repellent
	Cynodon dactylon	Khabbal gha	Whole plant	Eyewash, epitasis, nasal drops, inflammation, stop bleeding, scabies, fungal infections, piles, nervous disorder, hyperactivity disorder, fits and blood purification
	Dichanthium annulatum	Darib	Whole plant	Dysentery and manorrhagia
Polygonaceae	Polygonum plebejum Polygonum glabrum	Kheer wal	Whole plant Leaves	Cardion-tonic, haemetonic and cholera Astringent, diuretic, relieve pain, rheumatism and treatment of poison ivy rash
Portulacaceae	Portulaca quadrifida	Loonak	Whole plant	Nutritive, irritable bowel, ulcerative colitis, inflammations, diarrhea, pre-menstrual bloating, anti-oxidant for chronic health problems and diuretic
Primulaceae	Anagallis arvensis	Billy booti	Whole plant	Colagogue, diaphoretic, diuretic, expectorant, nervine, purgative, stimulant, vulnerary, poultice, dropsy, skin
Punicaceae	Punica grantum	Anar	Bark, seeds and seed extract	infections and disorders of the liver and gall bladder Diarrhea, dysentery, stomachache, hyperacidity, colitis, constipation, inflammation, teeth and gum disorder,
Rhamnaceae	Ziziphus jujuba	Beri	Leaves, root, fruit, bark, seed	bleeding, fever, skin and ulceration of colon Cough, heart tonic, anti-poison, anxiety, insomnia, dizziness, night sweats, diarrhea, fever and hair growth
Rosaceae	Zizyphus numularia Rosa indica	Paindu beri Gulab	Fruits, leaves Leaves and oil	As a tonic expectorant Eyes and skin treatment, stomach disorder, fever and
Rutaceae	Citrus limon	Nimboo	Whole plant	diabetes Anxiety, depression, cholesterol, antiseptic and lightens hair
	Citrus medica	Khatti	Leaves, seeds and latex	Pulmonary troubles, intestinal ailments, dysentery, sedative, anti-poison, antibiotic, pains and inflammation, itching, scorpion bite, improve digestion, liver problems, nausea, piles, epitasis cough, cold, asthma, menstrual disorder like, rehabilitating alcoholics and drinking habits
	Murraya exotica	Marva	Leaves and roots	Pain reducing, snake bite, diarrhea, dysentery, toothaches, antitoxic, antispasmodic, antagonizes muscular spasms, rheumatic pain, skin eczema and to improve blood circulation
Salvadoraceae	Salvadora oleoides	Peelu	Whole plant	Tryponosomosis, toothache, gum inflammation, mouthwash, gonorrhoea, spleen trouble, epilepsy, skin diseases, stomach ulcers, decoctions reduced cholesterol, LDL plasma levels, tonic to increase fertility and rheumatism
Sapindaceae	Dodonaea viscosa	Aliar	Leaves bark and roots	Astringent, diaphoretic, febrifuge, odontalgic, vulnerary, toothache, sore throats, wounds, skin rashes, stings and poultices
Solanaceae	Datura alba	Dhatura	Leaves and seeds	Asthma, intoxication, emetic, digestion, inflammation, spasm of the bladder, muscular rheumatism, neuralgia, haemorrhoids pain, fistula, abscesses and inflammation
	Solanum nigrum	Mako	Whole plant	Sleep enhancing, ringworm, gout, earache, gargle, mouthwash and cutaneous disorders
	Withania coagulans	Paneer doda	Leaves, fruit and roots	Chronic fatigue, dehydration, bone and muscle weakness, tension, loose teeth, thirst, impotency, premature ageing, emaciation, debility, constipation, senility, rheumatism, nervous exhaustion, memory loss, spermatorrhoea, tumors,
	Withania somnifera	Asgandh	Root, leaves, green berries and seeds	tubercular glands and ulcers Aphrodisiac, tonic, anthelmintic, inflammations, psoriasis, bronchitis, asthma, ulcers, scabies, insomnia, senile debility, arthritis, hypertension, diabetes and general debility

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Table 1: Continue						
Tamaricaceae	Tamarix aphylla	Ukan, Frash	Bark, leaves and twigs	Jaundice, rheumatism, wound and abscesses, rheumatism, wound and abscesses		
Tiliaceae	Chorchorus depressus	Bahuphali	Whole plant	Heat surges		
Verbenaceae	Phyla nodiflora	Bukhan booti	Whole plant	Anodyne, antibacterial, deobstruent, diuretic, emmenagogue, parasiticide, treatment of hookworm and gastric troubles, fever, cough and cold		
Zygophyllaceae	Fagonia cretica	Dhamasa	Whole plant	Fever, thirst, vomiting, dysentery, asthma, urinary discharges, liver trouble, typhoid, toothache, stomach troubles, skin diseases, smallpox, tumours, snakebite, possess potent anti-bacterial activity, breast cancer and antitumor		
	Tribulus longipetalous	Tirkindi	Whole plant	Increase male infertility, low libido and impotence		
	Tribulus terrestris	Bakhra	Whole plant	Gout, impotence, calculus affections, urinogenital diseases, eye infection, anti-inflammatory, anti-bacterial, antifungal, endurance and stamina		

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RESULTS

In the present study, 123 plant species belonging to 52 families were collected and identified during our field trips. The plant species include sedges, grasses, forbs, shrubs and tree species. The various plant species summarized in tabulated form (Table 1) along with their ethno-medicinal uses, local names, family and the parts being used to cure different diseases.

DISCUSSION

A vast knowledge of how to use the plants against different illnesses may be expected to have accumulated in areas where the use of plants is still of great importance (Diallo et al., 1999). The present study was carried out to assess record and report the Ethno botanical knowledge about the plant species of district Bahawalpur excluding the Cholistan desert and Lalsohanra National Park. These plants are used to treat various types of disorders either in the form of direct intake of plant parts, or in ground form, or in decoctions. Due to the lack of modern communications, as well as poverty, ignorance and unavailability of modern health facilities, most people especially rural people are still forced to practice traditional medicines for their common day ailments (Azaizeh et al., 2003). Many of the plants has been found to be administered in combination with milk or some specialized foods and various plant species have been found to cure such illness across different ethnic communities (Ismail and Nisar, 2010; Nisar et al., 2011; Arshad et al., 2011). An alarming point we observe and to lay stress that due to year round droughts, increases constructions, enhanced grazing, uncontrolled utilization and poor management posed a great threat to the native flora of Bahawalpur district. However, the study will provide a baseline study for the conservation f the local flora, familiarization to the local people and authorities to traditional knowledge of these medicinally important plants (Hussain et al., 2010; Ismail and Nisar, 2010; Qureshi et al., 2010) but only a small group of people in a community form a link in the trade of medicinal

plants (Khan, 2002). We strongly stress to initiate certain projects in cooperation with the pharmacuitical companies and academia to establish the cultivation of such medicinal plants to fulfill the local industry demand as well as by export to add great revenue to government as reported by various authors (Shinwari and Khan, 1999; Kate and Laird, 1999). The present paper will prove a key to identifying those elements in a plant with a pharmacological value that is ultimately destined for the international markets. Indeed, such traditional knowledge is very valuable. In this way the local communities of Bahawalpur district will get the better chances of employment, native flora will be conserved in a proper way for future utilizations and the retain its natural glory.

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