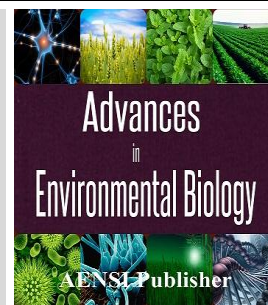




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## Ethenobotanical Study of Medicinal Plants In Darbe Anar region (Kohpayeh) Kerman, Iran

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### ABSTRACT

Iran has a long history in ethno botany and ethno pharmacology darbe anar area ,is located in the conserved area of kohpayeh of kerman province The indigenous people in darbe anar area, are used many plants and natural material for treatment their diseases, darbe anar area is an Important part of kohpayeh area which there are many plants species in this area which have medicinal uses .the aim of this research was ethno botanical study on medicinal Herbs of darbe anar area in order to recognize custom ,tradition, and application way of plants by the people. in current study, plant species were collected at several times .plant identities were confirmed by botanist and references .and analyze was made of the species used in total, 81 medicinal plant species collected and identified in darbe anar area Results indicated some of medicinal plants are used commonly by the indigenous people many of medicinal plants are used for eliminating different pains. Generally, some of uses were found to be new when compared with published literature on ethno medicine of Iran.

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## INTRODUCTION

Darbe Anar of Kohpayeh belong to Kerman province. It lies between 25°23' and 25°34' N latitude and 88°48' and 88°59' E longitude. The Darbe Anar is bounded by Deheloolo and Wameghabad to the north, by Dehbidoieh to the east, by Kermanto the south and east and by Chatrood city to the west. Total area of the Darbe Anar is about 3500 sq. km. Elevation ranges from 1700 to 2700 meters above mean sea level, this area is regarded as one of the Promenade Today Medicinal plants according to the specification of position in community health, scientific and research centers are considered. Iranian plants, as well as being rich in flora and rich cultures of different nations and Iran, according to a Traditional methods for valuable botanical plant and herbal medicine has new drug offers. [2] Thus, attention to this knowledge is essential. Research Etenobotany codifies the, traditional data features a local value of this information as a reasonable use of natural resources and effective protection of biodiversity and cultural interpretation. [7] So far about plant medicines and Etenobotany Much research has not been conducted. Including notable cases can be mentioned in Sirjan city [17] Etenobotany district of Ilam [6] Etenobotany Kashan [16] interduce rare medicinal plant Kalm and Bahadori and Bafgh of, Yazd [11]. Etenobotany of Sistan [10] Etenobotany of yahyaabade Natanz of Kashan [1] Etenobotany Kashan [16] can be mentioned. Information gained from local residents can play important role for plant production as chemotherapeutic agent province Due to the constant Residence Villagers and Indigenous knowledge of the people research on traditional medicine native peoples of this region is more necessary in this area The purpose of this study was to identify the different native medicinal plant people of the region and study of indigenous knowledge the people of the region

## MATERIALS AND METHODS

Village is an area within 28 degrees 57 minutes north and longitude 37 degrees 58 minutes east and 30 kilometers of the province is located at the northern end. Altitude of 2300-1700 meters above sea level, average

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annual rainfall of about 120m, Plant samples were collected during the growing seasons of 1391 and 1392 and drying and collection of samples, the use of conventional methods to identify the species of flora Ironical, Flora of Iraq [18] Flora of Iran [3], colored flora of Iran (champion 1380-1357) flora of Palestine [21], Flora of Turkey [4] Medicinal and Aromatic plants knowledge [19] and traditional medicine and herbal medicine [8] and [20] and For the classification of biological form was used the classification of Raunkiaer [14] In relation to the identification of medicinal plants and how to use them with the traditional local area were interviewed.

## RESULTS AND DISCUSSIONS

Overall, in this survey identified and analyzed the 81 medical species. (Table 1), The maximum range of biological form of medicinal plants in area are family Asteraceae, And. Lamiaceae The species plants of the genus Artemisia and Asteragalus constitute the dominant form of area. drought and overgrazing reduces the number of medicinal plant The survey shows that most of the plants use in traditional herbal medicine in the kohpayh contains various plant genus Thymus (Achillea), (Ziziphora), (Alyssum), Sisymbrium (Descurainia), and (cichorium)The people this area employ the *Peucedanum Aucheri*.as multiplier of breast feeding and menstruation *Bunium persicum*. with local name *Keserk* to treat for anemia. *Diantus barbatus* as relief toothache *Rumex vesicarius* latulens *Malva silvesteris* to treat cough *Nigella sativa*.in the treatment of asthma,diabet and high blood pressure *Alhagi camelurum* to treat Kidney stones *Cuminumcuminum* antispasmodic and carminative *Plantago ovata* as sound eclips and used as soup provides dominance of herbaceous plant in the area due to heavy grazing and drought and climatic factors and Topography it should be noted that the highest use of medicinal plants in the area such as Sirjan area related to disease Gastrointestinal [17]. *Cherry tails* and *tassel* with the *devil* for the treatment of kidney and bladder stones and urinary amnesty notes tract .*Berbers vulgaris*, *Descureinia Sophia Fenicullum vulgaris* and *Adiantum capillus-veneris*, by many people in Kerman province and study area recognized and between the rural elderly is used in traditional medicine and commend by herbalists in many cakes indigenous beliefs to wards medicinal plants research in this area with other observations made in another city is resemble such as Kashan [16] and Bafgh-yazd [11] Sistan region [10] and Yahya abad –natanz- Kashan [1] conducted

**Table 1:** List of medicinal plants used by DarbeAnar community (Kohpayeh) Kerman, Iran.

Biological form	Diseases to be treated	Santal name	Parts used	Family	Scientific name	Row
Th	Chest pain	sorkhtalkh	Leaves seed	Amarantaceae	<i>Amarantus graecizans</i> L.	1
Th	Chest pain	Sorkh maghz	Leaves seed	Amarantaceae	<i>Amarantus graecizan</i> Sl.var <i>Polygonoideae</i> (Roxb)Aellen s	2
Ph	Diarrhoea Joint pain, Nerves Rickets,	beneh	Fruits Bark, Leaves	Anacardiaceae	<i>Pistacia atlantica</i> Desf.	3
Ph	Astringent	khengok	Fruits· gum	Anacardiaceae	<i>Pistacia khinjuk</i> Stocks.	4
He	Wind break	reshkak	Wholeplant	Apiaceae	<i>Ducrosia asadii</i> Alava.	5
Ge	Diuretic, Kidney diseases	gashir	Essential oil	Apiaceae	<i>Prangos cheilantifolia</i> Boiss.	6
Ch	Treatment of Skin diseases	gishbarg	Leaves	Apocynaceae	<i>Nerium indicum</i> Miller.	7
Ch	Rheumatic fever, Leprosy	estabragh	Latex	Asclepiadaceae	<i>Calotropis procera</i> (Willd)RBr.	8
Ch	Fever, Diuretic	bomadaron	Stem, Flower	Asteraceae	DC <i>Achillea eriophora</i>	9
Ch	Indigestion	bomadaron	Wholeplant	Asteraceae	<i>Achillea wilhelmsii</i> C.KOCH	10
Th	Menstrual disorder Anticonvulsant, Antispasmodic	baboneh	Flower Leaves · Stem,	Asteraceae	<i>Anthemis odontostefana</i> BOISS.	11
Ch	Ear lesion	dormaneh	Flower· Leaves Stem,	Asteraceae	<i>Artemisia santolina</i> Schrenk.	12
Ch	Indigestion	dormaneh	Flower· Leaves Stem,	Asteraceae	<i>Artemisia sieberi</i> Besser.	13
Th	Treatment of pruritus, Healing cut injury	golrang	Flower· seed seed oil	Asteraceae	<i>Carthamus oxyacantus</i> M.B.	14
He	Anemia, Diuretic	kasny	Root, Leaves Flower	Asteraceae	<i>Cicurium intybus</i> L.	15
He	Dysuria	shekarkoh	Flower	Asteraceae	<i>Gundelia tornefortii</i> L.	16
He	Gastric pain, Diuretic	kharzanebaba	Root, Leaves Flower	Asteraceae	<i>Onopordon carmanicum</i> Bornm.	17
He	Conditioner	sfelang	Leaves Latex	Asteraceae	<i>Tragopogon caricifolium</i> Boiss.	18

He	Urea Reduction	Gole gavzabon	Flower	Boragina ceae	<i>Echium amoenum</i> Fisch etMey	19
Th	Amplification of vision Blood cholestrole	aftabparast	Leaves	Boragina ceae	<i>Heliotropium europaeum</i> L.	20
Ch	Nevers	hochareh	Leaves Root,	Boragina ceae	<i>Onpsma stenosisiphon</i> Boiss.	21
Th	Expectorant,Angina	ghodomah	seed	Brassicac eae	<i>Alyssum marginatum</i> Steud.exBOISS.	22
Th	Diuretic	moko	Leaves seed	Brassicac eae	<i>Cardaria draba</i> (9 L)Desv.	23
Th	Anti scurvey ,Astringent,	khakeshy	seed	Brassicac eae	<i>Descurania Sophia</i> (L)Schur.	24
Th	Indigestion	khakeshytal kh	Leaves Stem,	Brassicac eae	<i>Sisymbrium loselii</i> L.	25
Ch	Antifungal,Hypoglisemic	kavar	Producing flower buds Root, Stem,	Capparid aceae	<i>Capparis spinosa</i> L.	26
Ch	Redeus hiccopus,Sniffing	chobak	Root,	Caryophll aceae	<i>Acanthophyllum glandulosum</i> Bunge.exBoiss.	27
Th	Anti-worm	salmeh	Leaves Fruits	Chenopo diaceae	<i>Chenopodium album</i> L.	28
Th	Anti-worm	salmeh	Stem, Flower	Chenopo diaceae	<i>Chnopodium botrys</i> L.	29
Th	Laxative Diuretic,Anti- worm Blood purification,	alafeshor	Wholeplant	Chenopo diaceae	<i>Salsola kali</i> L.	30
Ch	Diarrhoea	pichpicho	Wholeplant	Convulvu laceae	<i>Convulvulus arvensis</i> L.	31
He	Worm anti -,Anti, bacteria , Energy sector Impotence	plasemorch eh	Wholeplant	Convulvu laceae	<i>Cressa cretica</i> L.	32
Ch	Hay fever ,Asthma ,Anfolanza,Rheumatic fever	ormak	Stem, gum,	Ephedrac eae	<i>Ephedra pachyclada</i> Boiss.	33
Th	Headache, Waist pain	farfion	Root, Latex	Euphorbi aceae	<i>Euphorbia densa</i> Schrenk.	34
He	Aptus stomatitis Gasteric ulcer	kharshtor	Stem, Latex	Fabaceae	<i>Alhagi graecurm</i> Fisch.	35
He	Anti Asthma	motky	Root,	FABaceae	<i>Glycirrhiza glabra</i> L.	36
He	Kideny inflammation	yongeh	Wholeplant	Fabaceae	<i>Medicago sativa</i> L.	37
Th	Anemia,,Blood tinner	zardiyongeh	Stem, Flower juice	Fabaceae	<i>Melilotus officinalis</i> (L.)Desr.	38
He		speres	Stem,, Flower	Fabaceae	<i>Onobrychis altissima</i> Grossh.	39
Ge	Detoxification,Treat inflammation	talkhehbaya n	Root, seed,	Fabaceae	<i>Sophora alopecuroides</i> L.	40
Th	Sterenthen gums	shahtareh	Wholeplant	Fumariac eae	<i>Fumaria parviflora</i> Lam.	41
Th	Anemia ,Wound treatment,	sozano	Stem, Leaves	Geraniace ae	<i>Geranium rotundifolium</i> L.	42
Ph	Redeuce Blood Suger	govz	seed	Juglandac eae	<i>Juglands regia</i> L.	43
He	Anti bacterial	gandenayek ohy	seed	Lammiac eae	<i>Marrobium vulgare</i> L.	44
Ge	Antiemetic Antiflatulence,Anti- asthma	poneh	Leaves	Lamiacea e	<i>Menta longifolia</i> (L).Hudse	45
He	Expecturant ,Hopping couh	melango	Essential oil	Lammiac eae	<i>Nepeta persica</i> Boiss.	46
He	Antibacterial	goldar	Leaves , Flower	Lamiacea e	<i>Otostegia persica</i> (Burm.)Boiss.	47
He	Menstrual disorder	maryamgol y	Leaves , Flower	Lamiacea e	<i>Salvia nemorosa</i> L.	48
He	Strengthening the nerves	salbeh	Essential oil	Lamiacea e	<i>Stachys setifera</i> C.A.Mey	49
He	,Diabete,,Malaria fever Inflammatory bowel,	kalporeh	Leaves Flower Stem,	Lamiacea e	<i>Teucrium polium</i> L.	50
He	Tonic	avishan	Wholeplant	Lamiacea e	<i>Thymus caramanicum</i> J alas.	51
He	Strengthening the nerves	avishaneko hy	Leaves Flower	Lamiacea e	<i>Ziziphora clinopodiodes</i> Lam.	52
Th	Headache	avishanebar ik	Leaves	Lamiacea e	<i>Ziziphora tenuir</i> L.	53
Ge	Bronchitis	piazedashty	Leaves	Alliaceae	<i>Allium stamineum</i> Boiss.	54
Ge	Local exhaust to reduce inflammation and pain	golehasrate yazdy	Flower Onions seed	Alliaceae	<i>Colchicum schimperii</i> Janka.	55
Th	Duct stones	ketanesafid	seed	Linaceae	<i>Linum album</i> Ky.ex Boiss.	56
He	Chest pain	golekhatmy	, Flower Fruits	Malvacea e	<i>Alcea aucheri</i> (Boiss.)Alef.	57
He	Non-productive	panirak	Leaves Flower Stem,	Malvacea e	<i>Malva neglecta</i> Wallr.	58

He	Anti cancer, With antioxidants	tokhmekharo	Wholeplant	Malvaceae	<i>Malva sylvestris</i> L.	59
Ph	Anti cancer, With antioxidants	angir	Bark, Leaves Root, Fruits	Moraceae	<i>Ficus carica</i> L.	60
Ph	Diabetes	tot	Latex Leaves Fruits	Moraceae	<i>Morus alba</i> L.	61
Ph	Fever Laxative Energy Sector, Urinary Tract Infection	zeyton	Fruits Leaves seed oil	Oleaceae	<i>Olea europaea</i> L.	62
He	Anti-inflammatory, Safety power amplifier	barhangesarneyzehy	Leaves Fruits	Plantaginaceae	<i>Plantago lanceolata</i> L.	63
He	Excretion of intestinal worms Sexual enhancement	barhangekabir	Leaves Root, seed	Plantaginaceae	<i>Plantago major</i> L.	64
He	MS	kolahemirhasan	Leaves Root, seed	Plumbaginaceae	<i>Acantholimon festucaceum</i> (Jaub&SPACH)Boiss.	65
He	Bloat, Hiccup, Indigestion, Constipation,	torshehalo	Flower Root, seed	Polygonaceae	<i>Rumex vesicarius</i>	66
Th	Diabetes, Cholesterol	govedosar	seed	Poaceae	<i>Avena wiestii</i> Steud.	67
Th	, anti- worm, Kidney Stones	zabanpasghafa	Wholeplant	Ranunculaceae	<i>Consolida orientalis</i> (Gay)Schrod.	68
Ph	Anti cancer, Obesity, With Antioxidan	konar	Fruits, Leaves seed oil	Rhamnaceae	<i>Ziziphus spina-christii</i>	69
Ph	Healing cut injury Eczema	alok	Fruits Fruits	Rosaceae	<i>Amygdalus scoparia</i> Spach.	70
Ph	Regulation of blood salts, Strengthening the nerves	gilas	Fruits	Rosaceae	<i>Ceracus vulgaris</i> Miller.	71
Ph	Bladder problems	shirkhesht	Fruits seed	Rosaceae	<i>Cotoneaster persica</i> Pojark.	72
Ph	Pertussis	beh	Fruits seed	Rosaceae	<i>Cydonia oblonga</i> Mill.	73
Ph	, Rheumatic fever, Kidney inflammation treatment	nasteranevahshy	Flower Essential oil	Rosaceae	<i>Rosa beggeriana</i>	74
Ch	Kidney inflammation, Neurologic treatment	gheyntaran	Fruits	Rosaceae	<i>Sangoisorba minor</i> Scop.	75
Ph	Intestinal Discomfort, Sweaty hands and feet	senovbar	Flower Root,	Salicaceae	<i>Populus euphratica</i> Olivier.	76
Ph	Fever	bidmeshk	Leaves Stem,	Salicaceae	<i>Salix aegyptiaca</i> L.	77
He	Asthma, chronic of cough, pneumonia	gerghok	Leaves Flowe Root,	Scrophulariaceae	<i>Verbascum sinuatum</i> L.	78
He	Tonic, Diuretic Sedative	sizab	Wholeplant	Scrophulariaceae	<i>Veronica anagalis</i> L.	79
Ph	Gonorrhoea treatment, laxative	dafneh	Fruits Leaves seed oil	Thymelaceae	<i>Daphne mucrunata</i> Roule.	80
Ch	Eye pain	bazrolbang	Leaves	Solanaceae	<i>Solanum nigrum</i> L.	81
Ph	Blood purification	raz	Leaves Fruits	Vitaceae	<i>Vitis vinifera</i> L.	82
He	Rhumatism, Sedative, Jaundice, anti-worm	dashty	Leaves Stem, Flower	Zygophylaceae	<i>Peganum harmala</i> L.	83
Th	Kidney Stones	kharkhesak	Leaves Root, Fruits	Zygophylaceae	<i>Tribulus terresteris</i> L.	84

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