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RESEARCH PAPER

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Ethnobotany of medicinal plants in the region Béni chougrane (Mascara, Algeria)

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Abstract

This herbal study was conducted in the Mascara region (Beni Chougrane), whose population is closely linked to the various natural resources, our study is to provide a floristic inventory of medicinal plants and to collect information concerning the uses Therapeutic made in said region. The results of our study have identified 72 medicinal species used by local people in traditional medicine, owned 38 families, the most common used: Lamiaceae, Apiaceae and Asteraceae, and we established a herbarium sheets for each plant. Thus it had been found the modes used in the form of decoction and infusion. The results also showed that medicinal plants are used in the following diseases: hypertension and diabetes.

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Introduction

The use of medicinal plants in therapy knows notable interest, and it is through scientific studies based on analytical methods, and the new experiments, the medical world discovers more, the well founded empirical prescriptions of medicinal plants. These last constitute an inexhaustible source of drugs for men (Handa *et al.*, 2006).

Algéria, by the richness and diversity of its flora, constitutes a real phylogenetic tank, with about 4000 species and sub-species of vascular plants, what the allows to occupy a privileged square. Among the Mediterranean countries that have a long medical tradition and traditional know-how to herba (Righi, 2008).

The importance of medicinal plants in Algeria is so undeniable that is why, high request national and international medicinal plants, the use and lawless harvesting constitute a real danger future of medicinal plants if any species plantation policy is not applied. However, the Algerian medicinal flora remains unknown until today, because on some thousands of plant species, counted medicinal species do not exceed a few tens.

Analysis of the Algerian medicinal bibliography shows that data relating to regional medicinal plants are very partial and dispersed. Similarly knowledge making is held currently by little person. Also, the expedited destruction especially by drought and the space humannatural, makes it more difficult to discover, the exploitation and backup of the potentialities of this type.

Indeed, traditional medicine has always occupied an important place in the traditions of medications in Algeria especially in mountainous and Saharan areas. The study was conducted at the municipalities of Mascara responds to this concern to bring documentation for medicinal plants.

Through a series of surveys is ethnobotany, radiotherapists in the Mascara region were interviewed, the information sought on the used plants focused on their local name, their therapists virtues and the related medical practice.

Thus, a floristic inentory was performed on four protected sites. It is very important to translate reflest knowledge in scientific knowledge in order to revalue it, keep and use it rationally. Our ethnobotanical study is a contribution to the identification of medicinal plants used by the local population the Mascara region and the identification of ways of use in traditional Algerian pharmacopoeia.

Materiel and methods

Les Mountain of Beni Chougrane are one of the links of the western Tell oriented South-West/ North-East, bounded as East valley of Mina separates them from the mountain of Ouarsenis. West, they are extended by the mountains of Tessala et Ouled Ali. North, they are bordered by the plain of the Habra-Sig and South, by Ghriss-Mascara. In most valley of Mina which marks the limited is valley of Mebtouh, which marks the West limit, the Beni-chougrane mountains are crossed by valley El Hammam, which are built o3 large dams-tanks. The total acreage of the BNEDER en 1981 est de 2 860 km². The agricultural acreage represents 35% of this total area, course and forests account for 27% and 20 % (heavy degraded) unproductive lands.



Fig. 1. Location map of the study area (Monti de Beni-chougrane).

The intervention is to identify plants of a region and to realize a herbarium, also from well know its distribution and ecological conditions of this vegetation.

Our objective is to know the traditional use of plants used by the population of semiarid as a remedy so to traditional knowledge. Our objective is to know the traditional use of our inventory mostly at the time of survey, the lack of means of transport.

The picking of medicinal plants was made on a basis of the investigation and with the help of a knower forester in the region of plants.

After the gathering of documents and the collection of information related to our work, have subdivised our methodology in two parts:

- 1. A survey in the Mascara region according to a sheet of inquiry prepared according to our goal (Fig1).Our investigation has touched 90 people of all ages.
- 2. Preparation of a herbarium according to the following procedure:
- Choice of picking area.
- Choising a day sunny.
- Preparation of material: pruner, bags, notebook, camera, press screw, journal and scale.
- Output field.
- Take several pictures for a single plant on ground with a graphic scale.
- The gathering of plants only healthy and taking photos.
- Eliminate insects and soil particles.
- Put the plants in a newspaper and then in a press screw.
- Change log after 8 hours, 12 hours, 24 hours, 3 days and after a week. Until the drying (Protected from humidity).
- Bonding of plants on paper cardboard.
- Collage of labels that includes the identification of each species.
- Keep in a box to archive and sort by alphabetical order.

Results

Sex and age class

For absolute research use of medicinal plants an investigations has been in the nearly 90 people, 60% women and 40% men (Fig. 2).

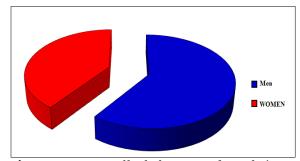


Fig. 2. Percentage of both the surveyed population.



 $\textbf{Fig. 3.} \ \textbf{The different classes} \ \ \textbf{of the surveyed population}.$

The questioned population contains a miture of age groups which is distributed as 15% of this last between 30 and 40 years, 20% between 40 and 50, 27% between 50 and 60, and 22% of the population were over 60 years (Fig. 3).

Biodiversity of medicinal plants

The survey on field during the three months (February, March and April), in different areas to establish a herbarium containing 72 medical species existing in the region of Mascara (Table 1).

Table 1. List of medicinal	plants in the region	of Mascara.
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Nº	Species	Common name	Vernacular name	Families
1	Ajuga iva (L.) Schreb.	Ivette musky	Chendgoura	Lamiaceae
2	Atractylis gummifera	Glue thistle	Addad	Asteraceae
3	Asphodelus ramosus L.	Asphodel	Berouague	Xanthorrhoeaceae
4	Ammoides pusilla (Brot.) Breistr	False Ammi slender	Noukha	Apiaceae
5	Arenaria serpyllifolia L.	Wild Subline	Fatate el-hedjare	Caryophyllaceae
6	Aristolochia clematitis L.	Aristolochiaclematis	Berousstome	Aristolochiaceae
7	Artemisia herba-alba	White wormwood	Chih	Asteraceae
8	Atriplex halimus	Atriplex	Guetaf	Amaranthaceae
9	Asparagus officinalis subsp. officinalis	Asparagus	Essekoum	Asparagaceae

	A	Donale ou	Titt	Ak
10	Anacyclus pyrethrum Arbutus unedo	Pyreher	Tigantast	Asteraceae
11		Arbutus	Lendj	Ericaceae
12	Amygdalus communis L. Anvillea radiata	Almond Anvillea	Louz	Rosaceae
13		boragemedicinal	Nougd Lessane el ferd	Asteraceae Boraginaceae
14	Borago officinalis L.	Chard	Selq	Amaranthaceae
15	Beta vulgaris L.	Mountainsmint	Nabta	Lamiaceae
16	Canatomia ciliana	Carob	Nabia Kharaube	Fabacees
17	Ceratonia siliqua Citrus medica	Cedar	Lime	Rutaceae
18	Coriandrum sativum L.		Kesbar	
19		Coriander		Apiaceae
20	Cupressus sempervirens L.	Cypress	Sarouel	Cupressaceae
21	Chamaerops humilis L.	Dwarf palm	Doum	Arecaceae
22	Cytisus spinosus (L.) Bubani	Calicotome	Guendoule	Fabaceae
23	Cistus albidus L.	Cistus	Timersat	Cistaceae
24	Citrus aurantium	bitter oranger	El-randj	Rutaceae
25	Daphne gnidium L.	Garou	Lazzaz	Thymelaeaceae
26	Echinops spinosus	Echinops	Tassekra	Asteracees
27	Eucalyptus globulus Labill.	Eucalyptus	Caliptousse	Myrtaceae
28	Foeniculum vulgare Mill.	Fennel	Besbas	Apiaceae
29	Fraxinus angustifolia Vahl	CommonAsh	Derdar	Oleaceae
30	Ficus carica L.	Figtree	Karmosse	Moraceae
31	Ferula communis L.	Ferula	Kelakhe	Apiaceae
32	Globularia alypum L.	Globulartree	Tasselgha	Plantaginaceae
33	Helosciadium nodiflorum (L.) W.D.J.Koch	Sium	Ziata	Apiaceae
34	Hordeum vulgare L.	Barley	Chaire	Poaceae
35	Dittrichia viscosa (L.) Greuter	Viscous inule	Magrammane _	Asteraceae
36	Juniperus oxycedrus L.	Juniperoxycedrus	Taga	Cupressaceae
37	Lavandula stoechas L.	Lavander	Halhal	Lamiaceae
38	Marrubium vulgare L.	White horehound	Maroukete	Lamiaceae
39	Malva sylvestris L.	Mallow	Khebize	Malvaceae
40	Mentha pulegium L.	Mintpennyroyal	Fléou	Lamiaceae
41	Mentha spicata subsp. spicata	Spearmint	Naànaa	Lamiaceae
42	Nerium oleander	Oleander	Defla	Apocynaceae
43	Opuntia ficus-indica (L.) Mill.	Pricklypear	Karmosse el- Nessara	Cactaceae
44	Olea europaea	Olive tree	Zitoune	Oleaceae
45	Olea europaea var. sylvestris (Mill.) Lehr	Wild olive tree	Zebboudj	Oleaceae
46	Papaver rhoeas	Poppy	Ben naaman	Papaveracees
47	Populus alba L.	White poplar	Safsaf	Salicaceae
48	Pinus halepensis Mill.	Aleppo pine	Snouber	Pinaceae
49	Pistacia lentiscus L.	Pistachio mastic	Darou	Anacardiaceae
50	Phillyrea latifolia L.	Filariabroadleaf	Tamtouala	Oleaceae
51	Punica granatum L.	Pomegranatetree	Remane	Lythraceae
52	Quercus ilex L.	Holmoak	Bellout	Fagaceae
53	Quercus coccifera L.	Kermesoak	Kerrouch	Fagaceae
54	Reseda luteola L.	Reseda	Acheba el barda	Resedaceae
55	Rhamnus alaternus L.	Materne	M'liles	Rhamnaceae
56	Reseda alba L.	Reseda	Danbe el- Kharoufe	Resedaceae
57	Rosmarinus officinalis	Rosemary	Iklil el-djabel	Lamiaceae
58	Ruta graveolens L.	Rue	Fedjel	Rutaceae
59	Rubus idaeus L.	Raspberry bush	Toute el aàligue	Rosaceae

60	Sonchus oleraceus L.	Sow	Molebina.	Asteraceae
61	Stipa tenacissima	Alfa	Halfa	Poaceae
62	Smyrnium olusatrum L.	Alexanders	Haiyar	Apiaceae
63	Tetraclinis articulata (Vahl) Mast.	Pricklycedar	Aàraar	Cupressaceae
64	Teucrium polium	Mountain'sPouliote	Jaada	Lamiaceae
65	Thapsia garganica L.	Thapsia	Dénias	Apiaceae
66	Thymus vulgaris L.	Thym	Zaàtar	Lamiaceae
67	Thymelaea hirsuta (L.) Endl.	passerine bristling	Methnane	Thymelaeaceae
68	Urtica dioica L.	Nettle	Heri,gue	Urticaceae
69	Urginea maritima	Scille	Bossila	Asparagaceae
70	Verbena officinalis L.	Verbenaofficinalis	Ma louiza	Verbenaceae
71	Verbascum sinuatum	Molenes	Meslahlendhar	Scrofulariaceae
72	Zizyphus lotus	Jujube	Sedra	Rhamnaceae

Diversity of families

The table above shows 72 medicinal species inventoried in the Mascara region, their name, common name, french name and their families. Result in a graphic representation (Fig. 4) of 36 families in where Lamiaceae:12,5%; Asteracees and Apiaceae 9,72%; Oleaceae 5,56; Cupressaceae and Rutaceae 4.17; Amaranthaceae, Asparagaceae, Fabaceae, Fagaceae, Poaceae, Resedaceae, Ramnaceae, Rosa-ceae and Thymelaeaceae: 2,78%; and the percentage of the rest of the families is 1.38% for each family has to know the family of Anacardiaceae, Apocynaceae, Arecaceae, Aristolochiaceae, Cactaceae, Caryophyllaceae, Cistaceae, Lythraceae, Malvaceae, Papaveracees, Moraceae, Myrtaceae, Pinaceae, Plantaginaceae, Salicaceae, Scrofulariaceae, Urticaceae, Verbenaceae, Xanthorrhoeaceae and Ericaceae.

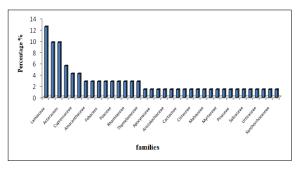


Fig. 4. Percentage of families of medicinal plants.

Traditional use of medicinal plants

For the inventory, the census of the study area plants concerned, those imported and used by the population of the region of Mascara, we had adopted a botanical presentation, the harvest period and the parts of plane used in pharmacopoeia. Thus we had integrated a photographic support, the mention of the preparation and the related application has these plants. As such we therefore adopted an airy presentation, short times with the aim to provide a sufficient description of the plant, its effect and its place in the traditional pharmacopoeia. This study allowed us to say that the family Labiatae ranks first in medicinal flora of the study area. Then come the Umbelifetae family, compositae, that are significant by their number in the flora of Algeria.

From point of view frequency n'use of medicinal plants. It found that it is very diverse. It seems that the Thym, Thuya de barbarie, Pistacia lentiscus, lavender, and the Ivette, are the most used by respondents, and those for your spontaneous species.

Table 2. frequency n'use of medicinal plants.

	Species	Parts used	Preparation	Indications
1	Asphodelus ramosus L.	Roots	Oily maceration	Jaundice, sore ears and like, the migraine, eczema, and warts.
2	Arenaria serpyllifolia L.	Whole Plant	Decoction	Kidney limestones
3	Aristolochia clematitis L	. Aerial Parts ans roots	Powder, Decoction	cancer, diabetes, rheumatism and muscle pain.
4	Artemisia herba-alba	Leaves and flowering	Infusion	facilitate digestion, calm the abdominal pain and vomiting, and certain diseases of
		tops		$the\ liver,\ vermifuge,\ narcotic,\ rheumatism,\ hyperglycemia,\ abscess,\ tooth,\ diabetes,$
				diarrhea.

5	Atriplex halimus	Leaves and stems	Decoction	Removes cysts, it regulates sugar levels in the blood, lowers pressure, increasinbly
6	Globularia alypum L.	Leaves	Decoction	itcalms the pain of colon Stomach pain, diabetes, constipation, gout and to purify the blood, promotes
7	Asparagus officinalissub	Roots	Decoction	urination, promotes the digestion of food and fever. Diabetes, kidney limestones, of the large colon and the jaundice.
•	sp. officinalis			
	Stipa tenacissima	Leaves	Décoction	Baloating of colon, diabetes, hypertension, kidney pain and bladder.
9	Borago officinalis L.	Leaves and flowering	Décoction	Hemorrhoids, pain from abscesses, wound,
10	Beta vulgaris L.	tops Leaves	Décoction	Facilitate digestion, and allergy.
11	Atractylis gummifera	Roots	Décoction	Contamination of fluenza , eczema the magpies.
12	Ajuga iva (L.) Schreb.	Whole plant	Decoction	Lumbago, jaundice, stomach pains and bowel, diabetes, hypertension, bloating of the
		·		stomach and rheumatism, intestinal worms.
13	Urginea maritima	Bulb	Cataplasm	Genital infection, scabies.
14	Calamintha officinalis	Leaves and flowring	Infusion and decoction	Abdominal pain of children and asthma, the buzzing in the ears.
15	Echinops spinosus	Roots	Infusion	Genital infections (after an abortion), urinaru tract infections, inflammation of the
16	Es sui sul um suul sams	Leaves, fruit, roots	decoction	kidneys, the blood circulation. Abscesses and sores , coughs and asthma attacks, headaches, promote lactation,
10	Foeniculum vulgare	Leaves, ir uit, 100ts	uccoction	rules, eliminates gas bowel and calm the large colon, stomach, headache, migraine
	Mill.			pain, treats inflammation and congestion of the breasts.
17	Ferula communis L.	Rod and qum		fractures; disorders digestive and bronchitis.
18	Ammoides pusilla	Leaves, flowers and	Infusion	Fever children, sunburn, tonsillitis, influenza, diarrhea and belly pain, hypertension
	(Brot.) Breistr	seeds		
19	$Coriand rum\ sativum\ L.$	Leaves and Fruit	Infusion	Hair loss, bloating
20	Globularia alypum L.	Whole plantentière	Decoction	Burns and rheumatism.
21	Cytisus spinosus (L.)	Flowering tops	Infusion	Scabies, trachoma.
22	Papaver rhoeas	Petals of flowers	Infusion and	Dental abscess, measles, diseases of the eyes and eyelids, acute bronchitis and
23	Opuntia ficus-indica (L.)	Stem and fruit	decoction infusion ou de	chronic, asthma, eruptive fever, rheumatism and coughs, insomnia and nervousness. Diarrhea and dysentery, constipation, back pains and sycosis, inflammation of the
-3	Opuntia ficus-matca (L.)	otem and man	poudre	prostate gland and intestines.
24	Phillyrea latifolia L.	Leaves and flowers	decoction	Cephalagies and hypertension
25	Rubus idaeus L.	fruits and flowers	decoction	Sore throat, colicand diarrhea
26	Daphne gnidium L.	Leaves, fruit and bark	decoction	Ringworm, scabies, the forks of hair and hydrocephalus
27	Lavandula stoechas L.	Flowering-flower pot	infusion	Eliminating intestinal worms, and thus for diabetes, asthma, eczema, parasites of the
				skin and to sanitise and heal wounds, diseases of respiratory (colds, bronchitis,) , and infectious diseases (eruptive fevers in particular).
28	Nerium oleander	Leaves	decoction	eczema, sore knee, he calms, the dental pain, headaches.
29	Dittrichia viscosa (L.) Greuter	Leaves, flowers and roots	infusion	Calm the abdominal pain and rheumatism, gingiva, and to reduce the weight.
30	Zizyphus lotus	Fruit, flowers and	Infusion	Favors stomach ulcer, favors the elimination of urine, stimulates the appetite,
	51	roots		hepatits.
31	$Smyrnium\ olusatrum\ L.$	Leaves, roots	decoction	rheumatism, stomach, dizziness.
32	Sonchus oleraceus L.	Air vertices	Infusion	Influenza, urinary tract infections and drop.
33	Marrubium vulgare L.	Flowering top leaf	infusion	rheumatism, bronchitis, infertility in women, painful mendtruation, diabetes, liver diseases, fall hair, and for diarrhia, headaches.
34	Malva sylvestris L.	Leaves, flower	infusion	constipation, inflammation of the respiratory tract, urinary tract, headache, rheumatism
35	Mentha pulegium L.	Flowring tops, leaves.	Powder, infection	Cough , influenza, stomach ulcer, high blood pressure, diseases of the lungs, vomiting, diarrhea.
36	Mentha spicata	Leaves	decoction	Calm abdominal pain is lowers blood pressure (hypertension), calm the nerves
37		Leaves	decoction	pyodermites, les douleurs abdominales, vomissements, la toux, et les nausées
	Mentha rotundifolia			
38	Verbascum sinuatum	Flowers (without stamens), leaves.	decoction	Urinary tract infections, diseases of the chest.
39	Urtica dioica L.	whole plant, leaves,	infusion et	Nocturnal enuresis in children, eczema, promoted the lactation, weakness, and loss
40	Anamahia minethii	roots	Decoction decoction	of hair. rheumatism, ifluenza.
40 41	Anacyclus pyrethrum Chamaerops humilis L.	Leaves, back and fruit,		hepatitis, diarrhea and dysentery
	•	hearts		
42	Teucrium polium	Flowering tops,leaves and roots	decoction	Reduce fever in children, and in the treatment of diabetesn rheumatism, kidney patients, pain of intestine, cough, retention.
43	Reseda luteola L.	Leaves	decoction	rhuematism, vomitingt

44	Reseda alba L.	Flowerinf tops	decoction	Feverand calm the pain caused by the injury.
45	Rosmarinus officinalis	Leaves, flower	decoction	cholestérol, high blood, pressure, asthma, bronchitis, cough, headaches, digestives
				disorders and hepatic congestion and hepatic failure, vomiting, and to regulate and
		,		calm thr rules; and to calm the areas
46	Ruta graveolens L.	leaves	infusion	Promote the rules, against intestinal worms, against ulceration gums and for neat skin from parasites.
47	Helosciadium	Leaves and roots	Infusion	Kidney infections, swelling of tomach, insolation
	nodiflorum (L.)			
	W.D.J.Koch			
48	Thapsia garganica L.	roots	Aqueous decoction	$\label{eq:muscle tears} \mbox{Muscle tears, pain in back, for hardening the hands of workers, rheumatism of the feet .}$
			or oily maceration	
49	Thymus vulgaris L.	Leaves, flowring tops	infusion	Influenza, headaches, urinary tract infections of respiratory tract, stomach pains, sore teeth
50	Thymelaea hirsuta (L.)	Stems and leaves	Cataplasme	Pus, abscesses
51	Verbena officinalis L.	leaves	Decoction	To calm the nerver, and to wash the intestines again born
52	$Hordeum\ vulgare\ L.$	seeds	Infusion	Of intestinal disorder, used to help the functionning kidney, and in the case of cyst,
	_			lithiasis, lumbago, gout
53	Olea europaea	Leaves and fruits	Infusion	Cough, inflammation laryngitis, hair loss, fever and diabetes, rheumatism, cholesterol, and soothe the pain of the ears
54	Olea europaea var.	leaves	Infusion	Stomatitis and limestones kidney, eczema and thrush .
٠.	sylvestris (Mill.) Lehr			•
55	Rhamnus alaternus L.	Stems and leaves	Decoction	Jaundice, hepatitis, pain sciatica, purgative soft
56	Punica granatum L.	Fruits	Decoction	Pain and ulcer of stomach, hair, diarrhea, appetite, and anemia
57	Ficus carica L.	leaves, latex an fruit	Decoction	dia bronchitis, and facilitates digestion,
58	Arbutus unedo	Leaves and fruits	Infusion	diarrhea, hypertension and anemia.
59	Amygdalus communis L	Leaves and fruits	Decoction	Burns, stomach inflammation, coughs and palpitations, and againts the fall of hair , diabetes. $ \\$
60	Citrus medica	fruits and flower	decoction and Infusion	Strengthen nails, angina and stomatitis, migraine, headaches, fever, intestinal and forrefreshing, maintenance of face parasites
61	Citrus aurantium	Fruits, bark on the	Infusion	Unclog the intestines
		fruits, leaves		
62	Juniperus oxycedrus L.	fruits, bark and leaves	Decoction	cystitis, and colon pains, rheumatism and fever
63	Ceratonia siliqua	fruits	Infusion	To treat the fiagile stomach wall, enteritis of infants, and to reduce appetite, the
64	Cupressus sempervirens	fruit leaves branches	Decoction	fruitd of this tree are used against diarrhoea Cough, nocturnal incontinence of urine in children, diarrhea and burns, mucous
04	L.	iruit, icuves, bruiteiles	Decoction	flow, hemorrhoids, passive hemorrage
65	Quercus ilex L.	leaves, acorns and	Decoction and	Bleeding, ailments of the skin, gastralgias, diarrhea, digestive lazines and weakness,
-0	Quereus nex 11.	bark	Infusion	hemorrhoid, fever
66	Quercus coccifera L.	leaves	Infusion	Borage, stomach ulcer,
67	Pistacia lentiscus L.	Leaves, fruits, putty	Decoction	Pain stomach, bloating and constipation, pain in the ears, dental doubters, cough
68	Eucalyptus globulus	leaves	Decoction and	$Clean\ up\ the\ respiratoiry\ tract,\ fever,\ bronchit is,\ flu,\ rheumatism,\ spasmodic\ cough$
	Labill.		Infusion	
69	Fraxinus angustifolia	Leaves, bark and seeds	Decoction	Hémorrhage, stool and against intestinal parasit control
	Vahl			
70	Populus alba L.	leaves, buds, bark	Deeoction	rheumatism, flu, diseases of the kidneys and bladder, and against catarrhs of the
	Dinya halani a Mili	bark	Decoction	respiratory tract, against intermittent fevers.
71	Pinus halepensis Mill. Tetraclinis articulata	Leaves, bark	Decoction	Abdominal pain, stomach ulcer, indigestion Stomach ulcer, eczema, diarrhea, fever and bronchitis
72	ren actinis articulata	Leaves, Dark	Detoction	comacn acci, cozenia, diarriica, iever and proficings

For parts used in the study area, and folloup to the relationship we have recorded the sheets comprising among the most used parts, second by stems puff, then fruit and underground parts. Although the results show that the leaves are the most used, we noticed the field, users tend tore the whole plant instead look only at the desired part, knowing that there is a relationship

between the used part of the plant exploiled and the effect of this mode of operation on its existence. For the method of preparation the decoction is the most frequent method of preparation. It is second by powdered prparation and infusion. Other modes (Poultice, maceration, fumigation drops and others) come in third place.

Conclusion

The frequency of use of medicinal plants in the region of Mascara is closely linked to the profile of respondents. Young people compared to the elderly, generally do not know the names or the utility of much of the plant species. Both sexes share some knowledge with a slidht advantage especially in the older women. The analysis of the results obtained by this study allowed us to identify medicinal plants the most used in the Mascara region. Among these species the representatives Lamiaceae are (Calamintha officinalis, Lavandula stoechas L., Marrubium vulgare L., Mentha pulegium L., Mentha spicata subsp. Spicata, Teucrium polium, Thymus vulgaris L., Rosmarinus officinalis) and Asteraceae: visc-ous mule, cupressacea (Tetraclinis articulata) who are the most used.

The plan of severe operation whereby, numerous species are exposed can lead a scarcity and bu disappearance, is the caseof (Tetraclinis articulata, Thymus vulgaris, Ajuga iva, Rosmarinus officinalis. Pistacia lentiscus etc). It also notes that other relatively abundant plants, are very requested in the region.

He results also showed that medicinal plants are widely used in deseases of the digestive tract. These are known by their phytoherapeutiques effects, antispasmodic, antidiarrhoeal, stomachic, rheumatism, and chronic diseases such as hypertension and diabetes.

It was noted that the most common usage pattens are decoctions and infusion. The outputs field have enabled us to make a herbarium containing 72 medicinal species, nevertheless residents have cited more than 120 species extant species in the Mascara region. Which involves the degradation of vegetation cover due to several factors:

- Uncontrolled grazing
- Illegal harvesting od medicinal plants by the inhabitants of this region.
- Lack of a control that preserves endangered plants.
- Climatic conditions.

For that purpose and to keep the rest of the heritage, can say that the culture of medicinal plants, and neither regulation of harvesting of spontaneous plants could reduce the pressure on medicinal species most used in traditional pharmacopoeia. finally, whatever the resuls, this remains a work of census and description of use of medicinal plants in region of Mascara, but this test needs to be developed. With this modest work, we hope that we have contributed to the preservation of knowledge make, and read practices traditional medicinal plants in the region of Mascara.

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