Bulletin of Environment, Pharmacology and Life Sciences

Bull. Env. Pharmacol. Life Sci., Vol 3 [Special Issue V] 2014: 45-49 @2014 Academy for Environment and Life Sciences, India

Online ISSN 2277-1808

Journal's URL:http://www.bepls.com

CODEN: BEPLAD

Global Impact Factor 0.533 Universal Impact Factor 0.9804



ORIGINAL ARTICLE

Survey of Indigenous medicinal plants and Traditional foods in the Lorestan province, West Iran

Seyed Reza Shahrokhi^{1*}, Mohamad Ghanimatdan¹, Mohsen Akbari Bazm¹, Isaac Karimi²

- 1. Razi Veterinary Council, School of Veterinary Medicine, Razi University, Kermanshah, Iran
- 2. DVSc in Physiology, Department of Basic Sciences, School of Veterinary Medicine, Razi University **E-mail: reza.shahrokhi.dvm@gmail.com**

ABSTRACT

The aims of this study were to identify, present and review the medicinal plants and traditional foods which used by lori herbalists. The list of traditional healers of Lorestan province was prepared and data were obtained by direct observation, interviews and the questionnaires after that, herbarium samples were collected from the desired area. According to results, there are 49 indigenous species of medicinal and food plants collected during the survey that locale people were believing they are healing. 41 of them are for medicinal purposes and the rest are for food. The most numbers of medicinal plants were belong to the families of Umbelliferae and Liliaceae (both 4 species). Vomit and Feverwere the kind of disease mentioned with the most number of species, and processed edible plants were the kind of consumption pattern represented by the most number of species. In conclusion, people in this area have a strong belief that plants have a positive impact in the treatment of disorders and they have used medicinal plants since ancient times to treat these disorders. Our study revealed the importance of herbal medicines and traditional medicine in this area as medicinal resource for drug discovery in future.

Keywords: Medicinal plants; traditional foods; lorest an.

Received 29.05.2014 Revised 30.06.2014 Accepted 12.09. 2014

INTRODUCTION

Traditional medicine has a long history of serving peoples all over the world. In many countries and cultures of different nations, the use of medicinal plants to treat diseases and maintain public health is highly prevalent [1, 2]. Natural products play an important role in the field of new drugs research and recent studies have also revealed promising results from using of plants in the treatment or prevention of a wide variety of hard curable diseases such, athrosclerosis [3, 4], diabetes [5, 6], cardiovascular diseases [7, 8], neurological disorders (9, 10) and cancer [11, 12]. Therefore, to the aims of this study were to gather local knowledge and traditional medicine of ethno-botany of Lorestan region to identify herbs and foods that are effective in the treatment.

MATERIALS AND METHODS

In this study the data were collected by interview and questionnaire during the period of June and July 2014 using public resources. List of traditional healers was prepared and then necessary information of traditional healers was collected by direct observation, interview and questionnaire methods. Questionnaires were distributed between lori traditional healers and at the same time interview was performed. Herbal samples were collected from the desired region and after drying, their herbarium specimens were prepared. The herbarium samples obtained from data of local traditional physicians in the questionnaire were collected from the region and then they were authenticated by a botanist using a variety of flora and valid references.

RESULTS AND DISCUSSION

After analyzing the data obtained from questionnaires and interviews in lorestan, it has been demonstrated that there are 49 indigenous species of medicinal (Table 1) and food (Table 2) plants collected during the survey were used for the disease/disorders in traditional lorish medicine. 41 of them are for medicinal purposes and the rest are for food. The most numbers of medicinal plants were belong

Shahrokhi et al

to the families of Umbelliferae and Liliaceae (both 4 species). Vomit and Feverwere the kind of disease mentioned with the most number of species (Figure 1), and processed edible plants were the kind of consumption pattern represented by the most number of species. These results showed that the most part of plant that used is Leaves (23 %). **Table 1** showed the most characteristics of our plants with their therapeutic properties.

Table 1. The most characteristics of medicinal plants with their therapeutic properties.

Scientific name	Family name	Local name	Habit	Parts used	Uses recorded
Ficus carica L.	Moraceae	Hanjir	Herb	Fruits	Respiratory systems disorder , Digestive system disorders
Foeniculum vulgar miller	Umbelliferae	Raziane	Herb	Seed	Genitourinary system disorders
Fumaria vaillantii Loisel.	Fumariaceae	Shatara	Herb	Leaves	Digestive system disorders
Gladiolus atroviolaceus Boiss.	Iridaceae	Asbak	Herb	Flower	diarrhoea and dysentery , Fever, vom
Glucium grandiflorum Boiss. & Huet.	Papaveraceae	Halpachan	Tree	Leaves	Digestive system disorders, Respiratory systems disorder , Fever against coughing
Gundelia tournefortii L.	Compositae	Kangar	Herb	Seed	Genitourinary system disorders
Heliotropium spp.	Boraginaceae	Biro	Herb	Whole plant	weakness and Digestive system disorders
Heracleum persicum Desf. exfischev.	Umbelliferae	Soolan	Herb	Whole plant	Digestive system disorders, weaknes Fever
Juglanse regia L.	Juglandacese	gaviz	Herb	Fruits	vomit , Digestive system disorders
Prunella vulgaris L.	Labiatae	Giazofe	Herb	Roots	Digestive system disorders, vomit, Fever
Lactuca seriola L.	Compositae	Talishak	Herb	leaves	Respiratory systems disorder
Lepidium latifolium L.	Cruciferae	Ghaji	Herb	Flower	weakness, inflammation
Linum usitatisimum L.	Linaceae	Bazrak	Herb	Whole plant	Digestive system disorders, Fever, weakness
Loranthus grewinki Boiss. & Buhse	Lorantaceae	Mokhoraka	Herb	Whole plant	Fever
Morus alba L.	Moraceae	Toot	Tree	Fruits	Circulatory system disorders
Narcissus tazetta L.	Amaryllidaceae	Narges	Herb	Roots	Circulatory system disorders
Nigella oxypetala Boiss	Ranunculaceae	Siavala	Herb	Seed	vomit , Nutritional disorders and weakness
Onopordon carduchrum bornm. & beaur. DC.	Compositae	Karkol	Herb	Seed	vomit, Fever, against coughing
Ornithogalum umbellatum	Liliaceae	gilakhe	Herb	Leaves	Nutritional disorders , weakness, Fev
Populus alba L.	Salicaceae	Chenar	Tree	Leaves	Weakness, vomit
Ranunculus sericeus Banks & soland	Ranunculaceae	Chenar kala	Tree	Leaves	Vomit, diarrhoea and dysentery
Rosa foetida Herrm	Rosaceae	Daligh	Herb	Flower	Genitourinary system disorders
Sisymbrium spp.	Cruciferae	Khakeshi	Herb	Seed	Digestive system disorders, vomit
T. dasyurum C. presl	Papilionaceae	Kaleke	Herb	Whole plant	Fever, inflammation, vomit, diarrhoe and dysentery
Pistacia atlantica	Anacardiaceae	Kolang	Tree	Sap	Respiratory systems disorder, inflammation
Pistacia khinjuk	Anacardiaceae	Khanjok	Tree	Fruits	Respiratory systems disorder, vomit against coughing
Rhus coriaria	Anacardiaceae	Somagh	Herb	Leaves and	Inflammation, Nutritional disorders

Shahrokhi et al

Artemisia annua	Asteraceae	Khersdari	Herb	Whole plant	Circulatory system disorders, weakness	
Matricaria aurea	Asteraceae	Flowers bayne	Herb	Flower	Fever, vomit, diarrhoea and dysentery	
Descorania Sophia	Brassicaceae	Khak shir	Herb	Seed	Nutritional disorders, diarrhoea and dysentery	
Nasturtium Officinale	Brassicaceae	Balmak	Herb	Whole plant	Circulatory system disorders, weakness	
Viscum album	Lorantaceae	Chakam	Herb	Fruits and flower	Fever, vomit, diarrhoea and dysentery	
Quercus branti	Fagaceae	Ballot	Tree	Fruits	Respiratory systems disorder	
Quercus infectoria	Fagaceae	Darmazi	Herb	Leaves	weakness , Digestive system disorders	
Juglans regia	Juglandaceae	Gerdo	Tree	Leaves	Fever, weakness	
Stachys lavandulifolia	Lamiaceae	Kalkane	Herb	Whole plant	Circulatory system disorders	
Allium hirtifolium	Liliaceae	Moosir	Herb	Seede	Digestive system disorders, Fever, vomit	
Fritillaria imperialis	Liliaceae	Ashk maryam	herb	Fruits	Inflammation, weakness, diarrhoea an dysentery	
Eremurus Persicus	Liliaceae	Zereshk	Herb	Leaves	Genitourinary system disorders, Nutritional disorders	
Malva neglecta	Malvaceae	Toole	Herb	Leaves	Nutritional disorders, vomit	
Ficus Carica	Moraeae	Anjir	Tree	Fruits	Circulatory system disorders, inflammation, poisonings, against pair Reducing cholesterol in the body, detoxification, vomit	
Faba vulgaris	Papilionaceae	Baghela	Tree	Seed	Respiratory systems disorder	
Plantago Psyllium	Plantaginaceae	Barhang	Herb	Leaves and seed	Digestive system disorders, Nutrition disorders, vomit, diarrhoea and dysentery	
Rosa canina	Rosaceae	Nastaran	Tree	Whole plant	Inflammation, weakness, Fever	
Paliurus •spinosa	Rhamnaceae	Ahan dare	Herb	Roots and Fruits	Circulatory system disorders, vomit	
Ulmus minor	Ulmaceae	Sizab abi	Herb	stem	inflammation , Digestive system disorders, Fever, vomit, diarrhoea and dysentery	
Smyrnium cordifolium	Umbelliferae	Piname	Herb	Whole plant	Fever, inflammation, Circulatory system disorders	
				-	•	

Table 2. Plants for food

Scientific name	Family name	Local food	Habit	Parts used	Uses recorded	Dosage and Mode of Administration
Foeniculum vulgar miller	Umbelliferae	Raziane - joujoush	Herb	Seed	Genitourinary system disorders	Seedes are boiled and cooked foods.
Gundelia tournefortii L.	Compositae	Kangar- ashe kenger	Herb	Seed	Genitourinary system disorders	Seedes are boiled and cooked foods.
Lactuca seriola L.	Compositae	Talishak - nane gerda	Herb	leaves	Respiratory systems disorder	Leaves are cleaned, crushed then subjected to hot iron along with theaddition of salt and then consumed.
Narcissus tazetta L.	Amaryllidaceae	Narges – ashe torsh	Herb	Roots	Circulatory system disorders	Roots are crushed and boiled with warm water then consumed twice a day.
Pistacia atlantica	Anacardiaceae	Kolang - gholenga	Tree	Sap	Respiratory systems disorder, inflammation	Sapis burnedand breathe the smoke

Rhus coriaria	Anacardiaceae	Somagh - soghdou	Herb	Leaves and Fruits	Inflammation, Nutritional disorders, weakness	Leaves and Fruits are boiled and mixed with meat
Allium hirtifolium	Liliaceae	Moosir – nane moosir	Herb	Seede	Digestive system disorders, Fever, vomit	Seede is boiled and then consumed, twice per day.
Eremurus Persicus	Liliaceae	Zereshk – ashe zereshk	Herb	Leaves	Genitourinary system disorders, Nutritional disorders	Leaves are boiled and consumed Fourtimes a day
Ficus Carica	Moraeae	Anjir – sim tal	Tree	Fruits	Circulatory system disorders, inflammation, poisonings, against pain, Reducing cholesterol in the body, detoxification, vomit	Fruits are Roasted and consumed

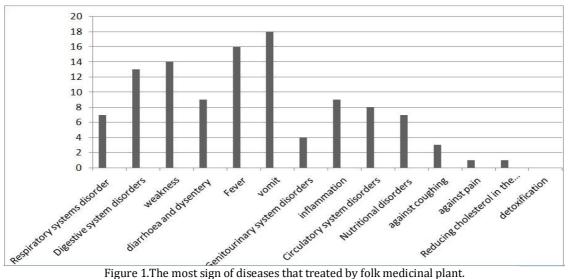


Figure 1.The most sign of diseases that treated by folk medicinal plant.

Traditional knowledge transfer is not only preservation of the knowledge but the preservation of diverse knowledge and practise and the management of local resources.

Today many medicinal plants face extinction or severe genetic loss, but detailed information is lacking...too much emphasis has been put on the potential for discovering new wonder drugs, and too little on the many problems involved in the use of traditional medicines by local populations. In this study, the ethno botanic data about medicinal plants which used in folk medicine from different regions of the West provinces, Iran were prepared and compared. There are several reports about the plants which can poses different therapeutic properties and used for several decades in folk medicine. Acacia senegal Wild., Azadirachta indica A. Juss., Tinospora cordifolia Willd., Phyllanthus emblica Linn. are used in diabetes. Boerhaavia diffusa Linn. is used in liver disorders; Euphorbia hirta Linn. is often used against asthmatic problems; Phyllanthus emblica Linn. is given with buttermilk to cure jaundice. Ageratum conyzoides Linn. Anacyclus pyrethrum DC, Aristolochia indica Linn., Calotropis procera (Ait.) R.Br., Capsicum annuum Linn., Elettaria cardamomum Maton, Syzygium aromaticum (Linn.) Merrill & Perry, Piper nigrum Linn., Amomum subulatum Linn., Flemingia chappar Buch., Podophyllum emodi Wall. are used as antileukaemic plant crude drugs by Ayurvedic Vaidyas. Ficus glomerata Roxb., Fagonia cretica Linn., Curcuma amada Roxb., Cyperus rotundus Linn., are used by the women folk for menstruation related problems and to regulate the menstruation cycle. Bombax ceiba Linn., Calotropis procera (Ait.) R.Br. and Curcuma longa Linn.are used for the treatment of face shadow, darkness and pimples. [13, 14]. In other regions of Iran, which have traditional religion, the use of medicinal plants is very common even higher than chemical drugs. In Sistan and Baluchistan province, South-East of Iran, Cardaria draba (L.) Desv ,Azmak, was used to soften the breast and relieve anemia [15, 16].

Traditional use of plants in other province of Iran is also common and this include Kerman, Isfahan and Ilam [1]. Therapeutic effect of medicinal plants in North, South, East, West and central parts of Iran showed that this country is a vast place to use herbs for treating diseases, however, the use of some plants in different regions of Iran with similar therapeutic effects were observed.

Shahrokhi et al

In conclusion, traditional medicinal plants can be a source of biological and pharmacological products for the future.

REFERENCES

- 1. Ghasemi Pirbalouti, A., Momeni, M. & Bahmani, M. 2013. Ethnobotanical study of medicinal plants used by kurd tribe in dehloran and abdanan districts, Ilam province, Iran. Afr J. Tradit Complement Altern Med, 10(2): 368.
- 2. Bahmani, M. & Eftekhari, Z. 2012. An ethnoveterinary study of medicinal plants in treatment of diseases and syndromes of herd dog in southern regions of Ilam province, Iran. Comp Clin Path, 22: 403-407.
- 3. Madihi, Y., Merrikhi, A., Baradaran, A., Rafieian-kopaei, M., Shahinfard, N., Ansari, R., Shirzad, H. & Mesripour, A. 2013. Impact of sumac on postprandial high-fat oxidative stress. Pak J Med Sci., 29 (1): 340-345.
- 4. Setorki, M., Rafieian-Kopaei, M., Merikhi, A., Heidarian, E., Shahinfard, N., Ansari, R., Nasri, H., Esmael, N.&Baradaran, A. 2013. Suppressive impact of Anethum graveolens consumption on biochemical risk factors of atherosclerosis in hypercholesterolemic rabbits. Int J Prev Med., 4(8): 889-895.
- 5. Akbari, F., Ansari-Samani, R., Karimi, A., Mortazaei, S., Shahinfard, N. & Rafieian-Kopaei, M. 2013. Effect of turnip on glucose and lipid profiles of alloxan-induced diabetic rats. Iran J Endocrinol Metabol, 14(5): 1-7.
- 6. Rafieian-Kopaei, M., Ghobadi, Sh. & Nasri, H. 2013. The protective effect of garlic extract on diabetic nephropathy. Usfahan Med Sci., 31(247): 1267-1269.
- 7. Khosravi-Boroujeni, H., Mohammadifard, N., Sarrafzadegan, N., Sajjadi, F., Maghroun, M., Khosravi, A., Alikhasi, H., Rafieian, M.&Azadbakht, L. 2012. Potato consumption and cardiovascular disease risk factors among Iranian population. Int J Food Sci Nutr., 63(8):913-920.
- 8. Khosravi-Boroujeni, H., Sarrafzadegan, N., Mohammadifard, N., Sajjadi, F., Maghroun, M., Asgari, S., Rafieian-Kopaei, M.&Azadbakht, L. 2013. White rice consumption and CVD risk factors among Iranian population. J Health Popul Nutr., 31(2): 252-261.
- 9. Akhlaghi, M., Shabanian, Gh., Rafieian-Koupaei, M., Parvin, N., Saadat, M. & Akhlaghi, M. 2011.Citrus aurantium blossom and preoperative anxiety. Revista Brasileira de Anestesiologia, 61(6):702-712.
- 10. Roohafza, H., Sarrafzadegan, N., Sadeghi, M., Rafieian-Kopaei, M., Sajjadi, F.&Khosravi-Boroujeni, H. 2013. The association between stress levels and food consumption among Iranian population. Arch Iran Med., 16(3):145-148.
- 11. Azadmehr, A., Hajiaghaee, R., Afshari, A., Amirghofran, Z., Refieian-Kopaei, M., yousofi-Darani, H. & Shirzad, H. 2011. Evaluation of in vivo immune response activity and in vitro anti-cancer effect by Scrophularia megalantha. J Med Plants Res., 5(11): 2365–2368.
- 12. Shirzad, H., Shahrani, M. & Rafieian-Kopaei, M. 2009. Comparison of morphine and tramadol effects on phagocytic activity of mice peritoneal phagocytes in vivo. Int Immunopharmacol, 9(7-8):968-970
- 13. Katewa, S. S. & Arora, A. 1997. Some plants in the folk medicine of Udaipur District (Rajasthan). Ethnobotany, 9: 48-51
- 14. Sharma, L. K., Agarwal, G. & Kumar, A. 2003. Medicinal plants for skin & hair care, Indian J Traditional Knowledge, 2(1): 62-68.
- 15. Zolfaghari, A., Adeli, A., Mozafarian, V., Babaei, S. & Habibi-Bibalan, Gh. 2013. Identification of medicinal plants and indigenous knowledge of local people Arabian. J Med Arum Plants, 28(3): 534-550.
- 16. Olfati, A., Moghaddam, G., Moradi, N., Bakhtiari, M. 2014. The Relationship between Progesterone and Biochemical Constituents of Amniotic Fluid with Placenta Traits in Iranian Crossbred Ewes (Arkhar-Merino×Ghezel). Asian Pac J Trop Med 7 (Suppl 1):162-166.

CITATION OF THIS ARTICLE

Seyed Reza S, Mohamad G, Mohsen Akbari B, Isaac K. Survey of Indigenous medicinal plants and Traditional foods in the Lorestan province, West Iran. Bull. Env. Pharmacol. Life Sci., Vol 3 [Spl Issue V] 2014: 45-49