

# Consumer behavior of herbal medicine products among some Agriculture college students

#### Kwestan Faris Anwar, Chro Mofaq Muhyadin

College of college of Agriculture Engineering Sciences, Field Crops Department Supervised by: Dr.Ali Mala Khedir Galalaey, Assist. Lecture Arian M. Abdullah

### Introduction

The flowers discovered in the tomb of Shanidar IV of the Neanderthals have powerful medicinal properties. Based on the results, it is more likely that this possibility was the driving force behind choosing plants for burial instead of an aesthetic one. Furthermore, Flowers may have been used for therapeutic purposes during Neanderthal era. (Abbott, 2014; Lietava, 1992).

Medicinal plants are used therapeutic and disease prevention purposes, but can pose risks depending on the conditions of consumption. thus, Plants are important sources of medicine for thousands of years and are the most important source of life saving drugs for majority of the worlds' population, while, Herbal medicine is a traditional practice of medicinal using plants for 2016; Petrovska, purposes.(Keykubat, 2012).

Iraq has 3300 species of plants, many of which are edible and endemic, making it a treasure. additionally, Wild herbs from Iraq are used for medicinal purposes, flavor, nutritional value, and variety.

The study aims to identify ethnobotanical use, reason for consumption, and students' beliefs and knowledge of its effects among agricultural engineering students.

#### Material and Methods

135 individuals were identified from the study area. Among them were students of a third stage (all departments) and a fourth stage that included departments (field crops, plant protection, food technology and Animal resources), the data collected from these individuals reflects the entire community. Finally, a question was developed with the students (face-to-face questionnaire) to determine their view on the use of traditional folk remedies and the promotion of the preservation of botanical diversity and indigenous knowledge. In addition, the criteria for selecting individuals was a face-to-face interview; All interviews were conducted in English with explanations and explanations in Kurdish (or according to the participant's language). The questionnaires were distributed randomly to the participants without their knowledge of herbal medicine and the traditional health care system.

Data edited and coded to get ready for analysis, and the data was entered into the computer using software programs such as EXCEL and Statistical Packages for Social Sciences (SPSS) was used by the researcher to analyses the data.

### Results and Discussion

People should be educated on the proper use and dose of medicinal plants, and made aware that they are permeable resources, especially for younger generations.

Table.1a . Socio-demographic characteristics of respondents (n=135)

Variables	Descriptions	Frequencies	%
Gender of respondents	Male	49	36.3
	Female	86	63.7
Marital status of vesnendents	Divorced	2	1.5
Marital status of respondents	Married	10	7.4
	Single	123	91.1
	Arab	1	0.740
Nationalism	Kurd	130	96.29
	Turkmen	4	2.962
Undergraduate stages (Classes)	Third class	94	69.6
Undergraduate stages(Classes)	Fourth class	41	30.4
Total		135	100

Table 2. Use and growing of medicinal and aromatic plants

Variables	Description	Frequency	Percent
Do you propagate (growing) the native	No	73	54.1
medicinal plants in your garden?	Yes	62	45.9
Have you ever use traditional herbal	Yes	62	45.9
medicines before?	No	73	54.1
Total		135	100

Table. 3 How have you learned to use medicinal plants?

Variables	Frequency	Percent
By book/magazine	21	15.6
By family member	34	25.2
friends	13	9.6
Internet	49	36.3
Media	18	13.3
Total	135	100.0

Table. 4 Do you agree with medical quality drugs in KRG?

Descriptions	Frequency	Percent
No	51	37.8
To some extend	39	28.9
Yes	45	33.3
Total	135	100.0

Table 5. Which of the following methods do you prefer, when you get ill (sick)?

Variables	Frequency	Percent
First Herbalist and then Hospital	6	4.4
Herbalist	8	5.9
Hospital and then Herbalist	10	7.4
Hospital	111	82.2
Total	135	100.0

#### Sample of questionnaire.

Dear Sir / Madam	
Dear on / Madam	
	ntly a BSc. Final class from <u>Salahaddin</u> University-Erbil, College of Agriculture i. Department of Field crops and Medicinal Plants.
Participation in this is account thus, names information for this is	is about (Changing Consumer behaviour of Herbal Medicine <u>Products</u> .), nterview is <u>volunteer</u> , and data confidentiality of participants is taken into are not expected to be mentioned. I highly appreciate your time and value your search. This questionnaire takes 15-20 minutes of your precious time. If you wish to skip a question, kindly inform me.
Kind regards	
Kwstan Fars Anwa	r and <u>Chro Mofaq Mhyaddin</u>
Part One: Backgrou	and Information
Gender: Age:	□ Male □ Female
Education level	□ Second class □Third class □Fourth class
Marital Status	□ Married □ Single □ Divorced
□Soil & Water Scien	□Horticulture Dept. □Forestry Dept. □Plant Protection Dept. ces Dept. □Animal Resources Dept. □Field Crops and Medicinal Plants. ology Dept. □Fish Resources and Aquatic Animals Dept.
Monthly income (IC	QD) less than 100,000
	□ 301,000-400,000 □ 401,000-500,000 □ more than 501,000
Religion   Islam	□Christian □Xazidi □Others
Nationalism □Ku	rd □Arab □ <u>Yazidi</u> □ <u>Turkman</u> □Christian □Others
	ving (location): Village District Town

Have you ever used traditional m Do you suggest to your friends to Have you ever noticed any health plants?	use medicinal plants?	+
Have you ever noticed any health	use medicinal plants:	
	y problem because of using the medical	
2. Do you use medical plants for		
	th of them	
3. If you use medicinal product		
□Once a day □Once a week	□Once a month □only once	
4. How have you learned to use	medicinal plants?	
□By family member □By boo	k/magazine □Media □Friends □Internet	
6. Does your financial situation	effect on your choice of healthcare provider	?
□YES □to some extend	□NO	
7. Do you satisfy with KRG hea	lth system?	
□YES □to some extend	□NO	
8. Do you agree with medical q	uality in KRG?	
□YES □to some exte	end □NO	
10. For how many years you ha	ve used medicinal plantsyears	
<b>11. How do you assess the level</b> □Very low □Low □Ave	of using medicinal plants in Kurdistan Regio rage □High □Very high	on?
12. Which of the local medicina	l plants do you use more; mention the name	of plants (not mo
than 5 plants?		
13 Which of the following meth	nods do you prefer, when you get ill (Sick)?	
Place	Reason	
When you get ill, (having an ailment), do you take medical	□I will get medical drug	
drugs at first or you take	□I will go to herbalist	
advantage of (plants) herbs?	DI WILL GO TO HEIDARIST	
□Hospital	□I feel safe.	□For Expert
	physicians	
		□Because I have
	□In order to be inspected in a wide scale social security	⊔ Decause I nave

## Conclusion

Herbal products are becoming increasingly popular due to their health benefits, but there is a risk of adverse effects due to lack of research. Research should be conducted with the goal of minimizing error, and medicinal herbs have a lot of options and flexibility for fighting disease.

In addition, scientific information efficacy dose, regarding and contraindications should be provided to consumers. To accomplish this, global harmonization of regulations is required to govern ethical herbal medicine production and marketing. If there is sufficient scientific proof of a herb's value, such law should enable it to be utilized correctly to promote its use in order to accomplish these advantages for the promotion of public health and sickness treatment (Ekor, 2014; Wachtel-Galor and Benzie, 2011).

The aim of the research was to identify and document medicine plants, socio-economic aspects of plant resources, and to find out and approximate students' knowledge about their knowledge towards medicinal plants. For this purpose, interviews were conducted with students in different departments and stages of their studies in the College of Agriculture.

The results of the study showed that many of the students believed in going to the hospital instead of going to the herbalist and were also less interested in recording and preserving ethnic folklore and medicinal plants.

## References

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