

## Supplementary material

**Table S1.** Summary of answers to the knowledge part of the questionnaire; questions, available options, and the response percentage to each option are provided in each column.

Questions	Options	Percentage of total answer
<b>Knowledge questions</b>		
<b>When studying Pharm. D, have you ever received any education about herbs/ natural products in urolithiasis?</b>	Yes	89.1%
	No	6.5%
	I'm not sure.	4.3%
<b>If you answered "yes" to the previous question, how many hours of education have you received on average?</b> <i>Total hours of any of these courses: Pharmacotherapy, Pharmacognosy, Medicinal herbs, internship, etc.</i>	Less than 2 hours	34.1%
	Between 2-4 hours	36.6%
	Between 4-6 hours	7.3%
	More than 6 hours	9.8%
	I'm not sure.	12.2%
	Very low	17.1%
<b>Do you find this education adequate?</b>	Low	22.0%
	Average	53.7%
	High	7.3%
	Very high	0.0%
	I'm not sure.	0.0%
	Retraining	19.6%
<b>Which of the following sources do you use to get information or advice to the patient about natural products in urolithiasis?</b>	Searching the Internet	60.9%
	Articles	13.0%
	Pages on social media	10.9%
	Manufacturer brochure / site	63.0%
	Online or face-to-face courses	4.3%
	Professors' handout	37.0%
	Medicinal plants' textbooks	4.3%
	Pharmacotherapy textbooks	10.9%
	Drug information applications	45.7%
	Pharmacopeias and textbooks	6.5%
	I'm not sure/ other	0.0%
	"Darooyab"	30.4%
	Google	13.0%
	Professors' handouts	13.0%
	Lexi comp	10.9%
	Brochure	10.9%
	Blank	10.9%
	UpToDate	10.9%
	Manufacturer website	10.9%
<b>Regarding the previous question, please indicate the title of the source or sources you use.</b> <b>(Open-ended question)</b> <i>For example, the name of the textbook or the database used, or the site and social media pages that you referred to</i>	Articles	8.7%
	Medscape	4.3%
	"Darookade"	4.3%
	Pharmacy websites	2.2%
	Textbooks	2.2%
	Retraining	2.2%
	A review of natural products	2.2%
	Pharmacopoeia of medicinal plants	2.2%
	Lexi herbal medicine	2.2%
	PubMed	2.2%
	Natural products information	2.2%
	Stockley's herbal medicines interactions	2.2%
	"Gharabadin"	2.2%
	PDR for herbal drugs	2.2%
	Valid websites	2.2%
	Official pharmacopoeia of Iranian medicinal plants	2.2%
	Medical websites	2.2%
	Direction of use	71.7%
	Interactions	45.7%
	Warnings or contraindications	41.3%
	Efficacy/Mechanism	39.1%
	Side effects	34.8%
<b>In which areas do you use these resources the most for information?</b> <i>(You can choose up to 3 options.)</i>	Use in pregnancy	26.1%
	Available dosage forms	2.2%
	Indications	2.2%

Questions	Options	Percentage of total answer
<b>Knowledge questions</b>		
<b>Do these resources provide the information you need?</b>	Usually do not have the information I want.	0.0%
	Little information is provided and not enough for counseling.	2.2%
	Information is general, and I do not have complete confidence in counseling	28.3%
	I find some of the information I am looking for, and I counsel patients with some confidence.	60.9%
	I find all the information I want and confidently counsel the patient.	8.7%
	Other	0.0%
<b>In general, how satisfied are you with the resources you use for natural products in urolithiasis?</b>	Very low	2.2%
	low	23.9%
	Average	60.9%
	High	8.7%
	Very high	0.0%
	I'm not sure.	4.3%
<b>For natural products in urolithiasis, check the options that apply to you: (You can choose up to 3 options.)</b>	I knew the instruction of use for at least five products.	65.2%
	I know the active pharmaceutical ingredients of at least five products.	45.7%
	I'm entirely aware of the mechanism of action of at least five products.	19.6%
	None	15.2%
<b>Is the choice of a natural product related to the "composition" of the stone?</b>	Yes.	56.5%
	No.	17.4%
	I'm not sure.	26.1%
<b>Is the choice of a natural product related to the "size" of the stone?</b>	Yes.	65.2%
	No.	19.6%
	I'm not sure.	15.2%
<b>Which of the following products causes "expulsion" of the patient's current stone? (You can select up to 14 options.)</b>	Sankol®	65.2%
	Rowatinex®	39.1%
	Cystone®	37.0%
	Lithorex-B	34.8%
	Urtica®	21.7%
	Diuretic®	21.7%
	I'm not sure.	21.7%
	Moderic®	15.2%
	Rudiorctic®	15.2%
	Diurin®	13.0%
	Canephron®	8.7%
	Urosept®	6.5%
	Renamix®	6.5%
	Sandkim®	4.3%
	Tropine®	4.3%
<b>Which of the following products causes "stone dissolution"?</b>	None of them	2.2%
	I'm not sure.	39.1%
	Cystone	34.8%
	Rowatinex®	26.1%
	Sankol®	17.4%
	Lithorex-B®	17.4%
	Urtica®	6.5%
	None of them	6.5%
	Tropine®	2.2%
	Diurin®	2.2%
	Urosept®	2.2%
	Rudiorctic®	2.2%
	Diuretic®	2.2%
	Renamix®	2.2%
<b>Which of the following products prevents "stone re-</b>	I'm not sure.	45.7%

Questions	Options	Percentage of total answer
<b>Knowledge questions</b>		
<b>formation"?"</b> (You can select up to 14 options.)	Sankol®	23.9%
	Lithorex-B®	19.6%
	Cystone®	17.4%
	Rowatinex®	15.2%
	Canephron®	6.5%
	Urtica®	4.3%
	Tropine®	4.3%
	None of them	4.3%
	Diuretic®	4.3%
	Diurin®	2.2%
	Rudoretic®	2.2%

**Table S2.** Summary of responses to attitude part of the questionnaire; questions, the average score of Likert-scale questions, available options, and the percentage of responses to each option are provided in each column.

Questions	Average score	Options	Percentage of total answers
<b>Attitude questions</b>			
<b>Natural products are effective in “treating” urolithiasis.</b>	3.8	I completely disagree.	0.0%
		I somewhat disagree.	6.5%
		I have no opinion.	8.7%
		I agree to some extent.	78.3%
		I totally agree.	6.5%
<b>Natural products are effective in “the prevention of stone formation”.</b>	3.6	I completely disagree.	4.3%
		I somewhat disagree.	10.9%
		I have no opinion.	17.4%
		I agree to some extent.	58.7%
		I totally agree.	8.7%
<b>In general, natural products can be effective.</b>	4.1	I completely disagree.	0.0%
		I somewhat disagree.	0.0%
		I have no opinion.	4.3%
		I agree to some extent.	80.4%
		I totally agree.	15.2%
<b>The use and prescription of natural products in urolithiasis are based on scientific evidence</b>	3.8	I completely disagree.	2.2%
		I somewhat disagree.	4.3%
		I have no opinion.	15.2%
		I agree to some extent.	65.2%
		I totally agree.	13.0%
<b>The price of natural products in urolithiasis is effective in physicians’/patients’ product of choice.</b>	4.1	I completely disagree.	4.3%
		I somewhat disagree.	0.0%
		I have no opinion.	15.2%
		I agree to some extent.	45.7%
		I totally agree.	34.8%
<b>The natural product in urolithiasis being imported is effective in physicians’/patients’ product of choice.</b>	3.9	I completely disagree.	0.0%
		I somewhat disagree.	6.5%
		I have no opinion.	26.1%
		I agree to some extent.	41.3%
		I totally agree.	26.1%
<b>Advertisements of pharmaceutical companies are effective in physicians’/patients’ products of choice.</b>	4.1	I completely disagree.	0.0%
		I somewhat disagree.	6.5%
		I have no opinion.	6.5%
		I agree to some extent.	56.5%
		I totally agree.	30.4%
<b>Natural products’ effectiveness in treating or preventing urolithiasis is consistent with the effects mentioned in the product brochure.</b>	3.4	I completely disagree.	0.0%
		I somewhat disagree.	10.9%
		I have no opinion.	37.0%
		I agree to some extent.	52.2%
		I totally agree.	0.0%

Questions	Average score	options	Percentage of total answers
<b>I consider the product brochure a reliable source of information about a natural product in “urolithiasis”.</b>	3.8	I completely disagree.	0.0%
		I somewhat disagree.	13.0%
		I have no opinion.	8.7%
		I agree to some extent.	58.7%
		I totally agree.	19.6%
<b>In general, which product do you think is most effective in urolithiasis?</b> (You can choose up to 3 options.)	NR	Cystone®	65.2%
		Rowatinex®	63.0%
		Sankol®	58.7%
		Lithorex-B®	23.9%
		Urtica®	10.9%
		I’m not sure.	10.9%
		Canephron®	4.3%
		Sandkim®	2.2%
		Moderic®	0.0%
		Rudiretic®	0.0%
		Urosept®	0.0%
		Diuretic®	0.0%
		Diurin®	0.0%
		Renamix®	0.0%
		Tropine ®	0.0%
<b>How prepared are you to guide and consult a patient about “choosing” natural products in urolithiasis?</b>	2.6	Very low	8.7%
		Low	28.3%
		Average	54.3%
		High	8.7%
		Very high	0.0%
		I’m not sure.	8.7%

**Table S3.** Summary of answers to practice part of the questionnaire; questions, available options, and the percentage of responses to each option are provided in each column.

Questions	Options	Percentage of total answers
<b>Practice questions</b>		
<b>Suppose you want to dispense “Sankol” to the patient. In explaining to the patient, what factors do you consider? (You can choose up to 6 options.)</b>	Direction of use	100%
	Duration of treatment	60.9%
	Side effects	39.1%
	Drug interactions	28.3%
	Contraindications	26.1%
	Mechanism of action	19.6%
	Other prescribed medications	2.2%
	Stone size and composition	2.2%
	Duration of disease	2.2%
	No explanation	0.0%
<b>A physician calls the pharmacy and needs some information about natural products in urolithiasis. He also refers to a patient with a history of recurrent urolithiasis and recent Lithotripsy. He wants to prescribe a natural product for this patient. In this case:</b>		
<b>Which criteria do you pay attention to when you want to recommend a product to the physician?</b> (You can choose up to 5 options.)	Preventing stone or curing stone	69.6%
	Stone composition	60.9%
	Stone size	52.2%
	Patient's medical history	50.0%
	Mechanism of action	41.3%
	Just presenting the list of products	13.0%
	I don't have enough information	8.7%
	Patients' feedback	82.6%
<b>Which of the following factors are effective in your recommendation?</b> Choose at most three factors that have the most impact on your decision.	Being highly prescribed	50.0%
	Recommendations of other colleagues	28.3%
	Price of the product	26.1%
	Insurance coverage	23.9%
	Manufacturer	17.4%
	Producing country	10.9%
	Expiration date	2.2%
	Pharmacy benefit	2.2%

Questions	Options	Percentage of total answers
<b>Practice questions</b>		
Which of the following products do you recommend to the physician? (You can select up to 14 options.)	Advertisements	2.2%
	Sankol®	84.8%
	Cystone®	78.3%
	Rowatinex®	69.6%
	Lithorex-B®	54.3%
	Urtica®	19.6%
	Canephron®	10.9%
	Diuretic®	6.5%
	Rudoretic®	4.3%
	Urosept®	2.2%
	Sandkim®	0.0%
	Renamix®	0.0%
	Tropine®	0.0%
	Diurin®	0.0%
	Moderic®	0.0%
What would you do if the same hypothetical patient came in person and requested an "OTC" supplement for urolithiasis?	I do not suggest a supplement, and I refer the patient to a physician for further examination	45.7%
	I do not recommend supplements and advise the patient not to use natural supplements.	0.0%
	I recommend a product based on the common prescription or willingness of other patients for a product	8.7%
	I ask about the patient's history and decide whether to deliver the supplement and the product type.	45.7%
While getting the patient's history, which of the following factors do you consider?	Purpose of treatment	81.0%
	Stone size	76.2%
	Medical history	76.2%
	Stone composition	66.7%
	Pregnancy and lactation	66.7%
	Drug interactions	61.9%
	Previous history of ESWL	57.1%
	Gender	28.6%
If you want to use articles and references for a quick review of the effectiveness of a product, what kind of articles do you use to conclude about a product's efficacy?	History of herbal product usage	4.8%
	Clinical studies	52.2%
	Textbooks	26.1%
	Systematic review studies	19.6%
Have you ever researched "Articles and textbooks" to evaluate the effectiveness of natural products in urolithiasis?	No difference	2.2%
	Yes	41.3%
Were the results sufficient to reach an acceptable conclusion about the product's effectiveness?	No	58.7%
	Very low	5.3%
	Low	5.3%
	Average	63.2%
	High	10.5%
	Very high	0.0%
	Can't judge	15.8%
If you want to order a product for your own pharmacy among natural products in urolithiasis, which one do you order more in the first to third place?	Sankol®	84.8%
	Rowatinex®	84.8%
	Cystone®	76.1%
	Lithorex-B	26.1%
	Urtica®	19.6%
	Diuretic®	4.3%
	Canephron®	2.2%
	Tropine®	2.2%
	Rudoretic®	0.0%
	Urosept®	0.0%
	Sandkim®	0.0%
	Renamix®	0.0%
	Diurin®	0.0%
	Moderic®	0.0%
Depending on your interest in different educational methods and obtaining information: How is it more practical and reliable for you to increase information about natural products?	Textbooks	19.6%
	Articles	13.0%
	References	13.0%
	Retraining	10.9%
		45.7%
		34.8%

Questions	Options	Percentage of total answers	
Practice questions			
	Webinars, online courses, and classes	13.0%	
	Professionals and professors	10.9%	
	Brochures and manufacturer website	23.9%	23.9%
	Web search	15.2%	19.6%
	Scientific pages on social media	4.3%	
	Applications	10.9%	10.9%
	Colleges' advice	2.2%	2.2%
	[Blank]	2.2%	2.2%

**Table S4.** Questionnaire form

Note: The original questionnaire was in Persian and an online format.

#### **Descriptions**

##### **Dear Pharmacist / Dear Student**

The following page is a questionnaire about pharmacists' knowledge, attitudes, and practices regarding the use of natural products in urolithiasis, which is being conducted as part of a dissertation for Pharm.D. Degree.

The term "Natural product in urolithiasis" means herbal or natural products that are officially used in the form of various pharmaceutical dosage forms in the country and are used for the "treatment" or "prevention" of urolithiasis.

Your answer will help us better understand the needs and knowledge gaps of pharmacy in this area and improve them. Your cooperation is precious to us.

It takes about \* 30 minutes \* to fill out this form.

-The information registered here is considered private and is used only for research purposes.

This project has been registered with the ethics code IR.SUMS.REC.1399.1139 in the ethics committee of Shiraz University of Medical Sciences.

#### **Guide:**

1. Please answer the questions without worrying about being right or wrong. Answer only based on what you have learned and experienced.
2. In the questions you need to select the product's name; there are 15 options in a drop-down list or test options. If you do not find the product's name you are looking for, pay attention that the options are continued. Otherwise, use the "other" option.
3. In single-choice questions, you are automatically transferred to the next question after selecting the desired option. In questions with multiple options, after confirming your choice, the next question is displayed.
4. If you have a point not mentioned in the questionnaire or think more explanation is needed for a case, you can use the form \* Contact us \* at the end of the questionnaire for further explanation.
5. If you want to receive the research results, you can enter your email at the end of the questionnaire.

#### **Demographic questions**

**Age:**                      **Gender:** man/woman

**Education status"**

Pharm. D student

Pharm. D

Ph.D. student    field: .....

PharmD-PhD    filed: .....

**Place of Pharm. D education:** .....

**Place of residence:** .....

**Have you ever worked at a pharmacy?**

Urban pharmacies, rural pharmacies, educational pharmacies, hospitals, etc.

1. Yes
2. No

**Which type of pharmacies have you ever worked in?**

No limitation in the number of options

1. Educational
2. Hospital
3. Clinical
4. Urban
5. Rural
6. Others (please note)

**Work experience in pharmacy:**

1. Less than 1 year

- 
2. Between 1-5 years
  3. Between 5-10 years
  4. More than 10 years

**The last time you have been active at a pharmacy:**

1. I'm currently active
2. Less than 1 year ago
3. Between 1-2 years ago
4. More than 2 years ago

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**General questions**

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**1. Which of these products are you familiar with?**

Options continue to number 15

1. Urtica® (Zardband)
2. Tropin® (Hakim momen Tabrizi)
3. Diuretic® (Armaghan tabiat)
4. Diurin® (IranDarouk)
5. Renamix® (Matin asaa pharmed)
6. Rowatinex® (Rowa pharmaceuticals)
7. Rudoretic® (GhaemDaroo)
8. Urosept® (Zol Urosept)
9. Sandkim® (Kimiagar Tous)
10. Sankol® (GolDaroo)
11. Cystone® (Himalaya)
12. Canephron® (Bionorica)
13. Lithorex-B® (Barij essence)
14. Moderic® (GolDaroo)
15. I don't know any of them

**2. Besides mentioned products, what other products do you know that are used for urolithiasis in Iran or other countries?**

.....  
.....

**3. In every shift, how many percent of prescriptions belong to urolithiasis?**

1. Between 0-20 %
2. Between 20-40 %
3. Between 40-60 %
4. Between 60-80 %
5. Between 80-100 %
6. I can't judge

**4. In the following three questions, rank natural products in urolithiasis based on mainly being prescribed:**

▪ **4.1. 1<sup>st</sup> place:**

1. Urtica® (Zardband)
2. Tropin® (Hakim momen Tabrizi)
3. Diuretic® (Armaghan tabiat)
4. Diurin® (IranDarouk)
5. Renamix® (Matin asaa pharmed)
6. Rowatinex® (Rowa pharmaceuticals)
7. Rudoretic® (GhaemDaroo)
8. Urosept® (Zol Urosept)
9. Sandkim® (Kimiagar Tous)
10. Sankol® (GolDaroo)
11. Cystone® (Himalaya)
12. Canephron® (Bionorica)
13. Lithorex-B® (Barij essence)
14. Moderic® (GolDaroo)
15. Others (please note)

▪ **4.2. 2<sup>nd</sup> place:**

1. Urtica® (Zardband)
  2. Tropin® (Hakim momen Tabrizi)
  3. Diuretic® (Armaghan tabiat)
  4. Diurin® (IranDarouk)
  5. Renamix® (Matin asaa pharmed)
  6. Rowatinex® (Rowa pharmaceuticals)
  7. Rudoretic® (GhaemDaroo)
  8. Urosept® (Zol Urosept)
  9. Sandkim® (Kimiagar Tous)
-

- 
10. Sankol® (GolDaroo)
  11. Cystone® (Himalaya)
  12. Canephron® (Bionorica)
  13. Lithorex-B® (Barij essence)
  14. Moderic® (GolDaroo)
  15. Others (please note)

▪ **4.3. 3<sup>rd</sup> place:**

1. Urtica® (Zardband)
2. Tropin® (Hakim momen Tabrizi)
3. Diuretic® (Armaghan tabiat)
4. Diurin® (IranDarouk)
5. Renamix® (Matin asaa pharmed)
6. Rowatinex® (Rowa pharmaceuticals)
7. Rudoretic® (GhaemDaroo)
8. Urosept (Zol Urosept)
9. Sandkim® (Kimiagar Tous)
10. Sankol® (GolDaroo)
11. Cystone® (Himalaya)
12. Canephron® (Bionorica)
13. Lithorex-B® (Barij essence)
14. Moderic® (GolDaroo)
15. Others (please note)

**5. Generally, how many percentages of questions that you confront as a pharmacist are related to natural products in urolithiasis?**

1. Between 0-20 %
2. Between 20-40 %
3. Between 40-60 %
4. Between 60-80 %
5. Between 80-100 %
6. I can't judge

**6. Have you ever been confronted with an OTC request for natural products in urolithiasis?**

1. Yes
2. No

▪ **6.1. If you answered "yes" to the previous question, approximately how many percent of OTC requests belong to natural products in urolithiasis?**

1. Between 0-20 %
2. Between 20-40 %
3. Between 40-60 %
4. Between 60-80 %
5. Between 80-100 %
6. I can't judge

▪ **6.2. What do patients expect when asking for an OTC natural product for urolithiasis?**

.....  
.....

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**Knowledge questions**

**7. Have you ever received any education about Herbs/ natural products in urolithiasis when studying PharmD?**

- In any of these courses: Pharmacotherapy, Pharmacognosy, Medicinal herbs, Internship, etc.

1. Yes
2. No
3. I can't judge

▪ **7.1. If you answered "yes" to the previous question, how many hours of education have you received on average?**

Total hours of any of these courses: Pharmacotherapy, Pharmacognosy, Medicinal herbs, Internship, etc.

1. Less than 2 hours
2. Between 2-4 hours
3. Between 4-6 hours
4. More than 6 hours
5. I can't judge

▪ **7.2. Do you find this education adequate?**

1. Very low
  2. Low
-



- 
3. Average
  4. High
  5. Very high
  6. I can't judge

**8. Which of the following sources do you use to get information or advice to the patient about natural products in urolithiasis?**

Choose a maximum of three sources that you use the most.

1. Retraining
2. Searching the Internet
3. Articles
4. Pages on social media
5. Manufacturer brochure/site
6. Online or face-to-face courses
7. Professors' handout
8. Medicinal plants' textbooks
9. Pharmacotherapy textbooks
10. Drug information software
11. Pharmacopoeias and references
12. I'm not sure.
13. Other

**9. Regarding the previous question, please indicate the source title or sources you use.**

- For example, the textbook's name, the database used, the site and social media pages you refer to, etc.

.....  
.....

**10. In which areas do you use these resources the most for information?**

(You can choose up to 3 options.)

1. Side effects
2. Interactions
3. Mechanism of action/efficacy
4. Instruction to use
5. Warning or contraindications
6. Use in pregnancy
7. Other
8. I'm not sure.

**11. Do these resources provide the information you need?**

1. I Usually do not have the information I want.
2. Little information is provided and not enough for counseling.
3. Information is general, and I do not have complete confidence in counseling
4. I find some of the information I am looking for, and I counsel patients with some confidence.
5. I find all the information I want and confidently counsel the patient.
6. Other

**12. In general, how satisfied are you with the resources you use for natural products in urolithiasis?**

1. Very low
2. low
3. Average
4. High
5. Very high
6. I'm not sure.

**13. For natural products in urolithiasis, check the options that apply to you:**

(You can choose up to 3 options.)

1. I knew the instruction of use for at least 5 products.
2. I know the active pharmaceutical ingredients of at least 5 products.
3. I'm entirely aware of the mechanism of action of at least 5 products.
4. None

*About choosing a natural product in urolithiasis:*

**14. Is the choice of a natural product related to the \* composition \* of the stone?**

1. Yes
2. No.
3. I'm not sure.

**15. Is the choice of a natural product related to the \* size \* of the stone?**

1. Yes
-

- 
2. No.
  3. I'm not sure.

- *In the following three questions, the effectiveness of natural products in urolithiasis in:*
- *- Stone expulsion*
- *-Dissolution of stone*
- *-Prevention of stone formation*
- *has been asked. Please note the difference between these three questions:*

**16. Which of the following products causes "expulsion" of the patient's current stone?  
(You can select up to 14 options.)**

1. Urtica® (Zardband)
2. Tropin® (Hakim momen Tabrizi)
3. Diuretic® (Armaghan tabiat)
4. Diurin® (IranDarouk)
5. Renamix (Matin asaa pharmed)
6. Rowatinex® (Rowa pharmaceuticals)
7. Rudoretic® (GhaemDaroo)
8. Urosept® (Zol Urosept)
9. Sandkim® (Kimiagar Tous)
10. Sankol® (GolDaroo)
11. Cystone® (Himalaya)
12. Canephron® (Bionorica)
13. Lithorex-B® (Barij essence)
14. Moderic® (GolDaroo)
15. None
16. I'm not sure.

**17. Which of the following products causes "stone dissolution"?  
(You can select up to 14 options.)**

1. Urtica® (Zardband)
2. Tropin® (Hakim momen Tabrizi)
3. Diuretic® (Armaghan tabiat)
4. Diurin® (IranDarouk)
5. Renamix® (Matin asaa pharmed)
6. Rowatinex® (Rowa pharmaceuticals)
7. Rudoretic® (GhaemDaroo)
8. Urosept® (Zol Urosept)
9. Sandkim® (Kimiagar Tous)
10. Sankol® (GolDaroo)
11. Cystone® (Himalaya)
12. Canephron® (Bionorica)
13. Lithorex-B® (Barij essence)
14. Moderic® (GolDaroo)
15. None
16. I'm not sure.

**18. Which of the following products prevents "stone re-formation"?  
(You can select up to 14 options.)**

1. Urtica® (Zardband)
2. Tropin® (Hakim momen Tabrizi)
3. Diuretic® (Armaghan tabiat)
4. Diurin® (IranDarouk)
5. Renamix® (Matin asaa pharmed)
6. Rowatinex® (Rowa pharmaceuticals)
7. Rudoretic® (GhaemDaroo)
8. Urosept® (Zol Urosept)
9. Sandkim® (Kimiagar Tous)
10. Sankol® (GolDaroo)
11. Cystone® (Himalaya)
12. Canephron® (Bionorica)
13. Lithorex-B® (Barij essence)
14. Moderic® (GolDaroo)
15. None
16. I'm not sure.

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***Attitude questions***

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- *Answer the following questions based on how much you agree with the sentences:*
-

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**19. Natural products are effective in \* treating \* urolithiasis.**

The purpose of treatment is to expel the patient's current stone.

1. I disagree entirely.
2. I somewhat disagree.
3. I have no opinion.
4. I agree to some extent.
5. I totally agree.

**20. Natural products are effective in \* the prevention of stone formation\*.**

1. I disagree entirely.
2. I somewhat disagree.
3. I have no opinion.
4. I agree to some extent.
5. I totally agree.

**21. In general, natural products can be effective.**

Natural products are generally meant, not just in the field of urolithiasis.

1. I disagree entirely.
2. I somewhat disagree.
3. I have no opinion.
4. I agree to some extent.
5. I totally agree.

**22. The use and prescription of natural products in urolithiasis are based on scientific evidence.**

1. I disagree entirely.
2. I somewhat disagree.
3. I have no opinion.
4. I agree to some extent.
5. I totally agree.

**23. The price of natural products in urolithiasis is effective in physicians'/patients' product of choice.**

1. I disagree entirely.
2. I somewhat disagree.
3. I have no opinion.
4. I agree to some extent.
5. I totally agree.

**24. The natural product in urolithiasis being imported is effective in physicians'/patients' product of choice.**

1. I disagree entirely.
2. I somewhat disagree.
3. I have no opinion.
4. I agree to some extent.
5. I totally agree.

**25. Advertisements of pharmaceutical companies are effective in physicians'/patients' products of choice.**

1. I disagree entirely.
2. I somewhat disagree.
3. I have no opinion.
4. I agree to some extent.
5. I totally agree.

**26. The effectiveness of natural products in treating or preventing urolithiasis is consistent with the effects mentioned in the product brochure.**

1. I disagree entirely.
2. I somewhat disagree.
3. I have no opinion.
4. I agree to some extent.
5. I totally agree.

**27. I consider the product brochure a reliable source for information about a natural product in \* urolithiasis \*.**

1. I disagree entirely.
2. I somewhat disagree.
3. I have no opinion.
4. I agree to some extent.
5. I totally agree.

**28. In general, which product do you think is most effective in urolithiasis?**

**(You can choose up to 3 options.)**

1. Urtica® (Zardband)
  2. Tropin® (Hakim momen Tabrizi)
-

- 
3. Diuretic® (Armaghan tabiat)
  4. Diurin® (IranDarouk)
  5. Renamix® (Matin asaa pharmed)
  6. Rowatinex® (Rowa pharmaceuticals)
  7. Rudioretic® (GhaemDaroo)
  8. Urosept® (Zol Urosept)
  9. Sandkim® (Kimiagar Tous)
  10. Sankol® (GolDaroo)
  11. Cystone® (Himalaya)
  12. Canephron® (Bionorica)
  13. Lithorex-B® (Barij essence)
  14. Moderic® (GolDaroo)
  15. None
  16. Other
  17. I'm not sure.

**29. 19. How prepared are you to guide and consult a patient about "choosing" natural products in urolithiasis?**

1. Very low
2. low
3. Average
4. High
5. Very high
6. I'm not sure.

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**Practice questions**

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**30. Suppose you want to dispense "Sankol" to the patient. In explaining to the patient, what factors do you consider?**

(You can choose up to 6 options.)

Factors that you routinely consider in explaining to most patients at the pharmacy.

1. Mechanism of action
2. Instruction to use
3. Duration of treatment
4. Side effects
5. Drug interactions
6. Contraindications
7. I do not explain anything.
8. Other

- *A physician calls the pharmacy and needs some information about natural products in urolithiasis. He also refers to a patient with a history of recurrent urolithiasis and recent Lithotripsy. He wants to prescribe a natural product for this patient. In this case:*

**31. Which criteria do you pay attention to when you want to recommend a product to the physician?**

(You can choose up to 5 options.)

1. Stone composition
2. Stone size
3. Therapeutic goal: Treatment or prevention
4. Patient's medical history
5. The product mechanism of action
6. Merely providing a list of products
7. I do not have enough information.
8. Other

**32. Which of the following factors are effective in your recommendation?**

(You can choose up to 3 options.)

Choose at most three factors that have the most impact on your decision.

1. Expiry date
  2. Product price
  3. Recommendation of other colleagues
  4. Country of origin of production
  5. Pharmacy economics
  6. Manufacturer
  7. Advertising of companies
  8. Product coverage by insurance
  9. Feedback from other patients
  10. Prescription of the product
  11. I'm not sure.
  12. Other
-

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**33. Which of the following products do you recommend to the physician?**

(You can select up to 14 options.)

1. Urtica® (Zardband)
2. Tropin® (Hakim momen Tabrizi)
3. Diuretic® (Armaghan tabiat)
4. Diurin® (IranDarouk)
5. Renamix® (Matin asaa pharmed)
6. Rowatinex® (Rowa pharmaceuticals)
7. Rudoretic® (GhaemDaroo)
8. Urosep®t (Zol Urosept)
9. Sandkim® (Kimiagar Tous)
10. Sankol® (GolDaroo)
11. Cystone® (Himalaya)
12. Canephron® (Bionorica)
13. Lithorex-B® (Barij essence)
14. Moderic® (GolDaroo)
15. Other
16. None

**34. What would you do if the same hypothetical patient came in person and requested an "OTC" supplement for urolithiasis?**

1. I do not suggest a supplement, and I refer the patient to a physician for further examination.
2. I do not recommend supplements and advise the patient not to use natural supplements.
3. I ask about the patient's history and decide whether to deliver the supplement and the product type.
4. I recommend a product based on other patients' common prescription or willingness for a product.

**35. What factors do you consider when getting the patient's history?**

1. Purpose of treatment
2. Stone size
3. Medical history
4. Stone composition
5. Pregnancy and lactation
6. Drug interactions
7. Previous history of ESWL
8. Gender
9. Others

**36. A new "natural" product has been introduced in the field of urolithiasis. What is the solution you use to judge and conclude its effectiveness? How do you evaluate its effectiveness?**

.....  
.....

**37. If you want to use articles and references for a quick review of the effectiveness of a product, what kind of articles do you use to conclude about a product's efficacy?**

1. Non-clinical studies
2. Clinical studies
3. Systematic review studies
4. Textbooks
5. It does not matter.
6. Other

**38. Have you ever researched "Articles and textbooks" to evaluate the effectiveness of natural products in urolithiasis?**

1. Yes
2. No.

▪ 38.1. What product/products have you searched for?

.....  
.....

▪ 38.2. Were the results sufficient to reach an acceptable conclusion about the product's effectiveness?

1. Very low
2. low
3. Average
4. High
5. Very high
6. I'm not sure

**39. If you want to order a product for your own pharmacy among natural products in urolithiasis, which one do you order more in the first to third place?**

▪ **39.1 Rank \* first \* highest order:**

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- 
1. Urtica® (Zardband)
  2. Tropin® (Hakim momen Tabrizi)
  3. Diuretic® (Armaghan tabiat)
  4. Diurin® (IranDarouk)
  5. Renamix® (Matin asaa pharmed)
  6. Rowatinex® (Rowa pharmaceuticals)
  7. Rudoretic® (GhaemDaroo)
  8. Urosept® (Zol Urosept)
  9. Sandkim® (Kimiagar Tous)
  10. Sankol® (GolDaroo)
  11. Cystone® (Himalaya)
  12. Canephron® (Bionorica)
  13. Lithorex-B® (Barij essence)
  14. Moderic® (GolDaroo)
  15. Other

▪ **39.2** Rank \* second \* highest order:

1. Urtica® (Zardband)
2. Tropin® (Hakim momen Tabrizi)
3. Diuretic® (Armaghan tabiat)
4. Diurin® (IranDarouk)
5. Renamix® (Matin asaa pharmed)
6. Rowatinex® (Rowa pharmaceuticals)
7. Rudoretic® (GhaemDaroo)
8. Urosept® (Zol Urosept)
9. Sandkim® (Kimiagar Tous)
10. Sankol® (GolDaroo)
11. Cystone® (Himalaya)
12. Canephron® (Bionorica)
13. Lithorex-B® (Barij essence)
14. Moderic® (GolDaroo)
15. Other

▪ **39.3** Rank \* Third \* Most Order:

1. Urtica® (Zardband)
2. Tropin® (Hakim momen Tabrizi)
3. Diuretic® (Armaghan tabiat)
4. Diurin® (IranDarouk)
5. Renamix® (Matin asaa pharmed)
6. Rowatinex® (Rowa pharmaceuticals)
7. Rudoretic® (GhaemDaroo)
8. Urosept® (Zol Urosept)
9. Sandkim® (Kimiagar Tous)
10. Sankol® (GolDaroo)
11. Cystone® (Himalaya)
12. Canephron® (Bionorica)
13. Lithorex-B® (Barij essence)
14. Moderic® (GolDaroo)
15. Other

**40.** Depending on your interest in different educational methods and obtaining information:

How is it more practical and reliable for you to increase information about natural products?

.....  
.....

**41.** This questionnaire, combined with another study, tries to check the available information about some natural products used in urolithiasis. If you want to receive the result of the research, please enter your email:

.....  
.....

**42.** If you wish, please enter your contact number:

.....  
.....

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