

Epidemiological Analysis of Trichofitia Disease in Samarkand Region

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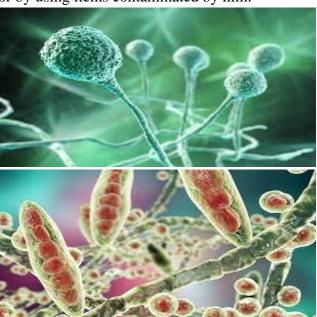
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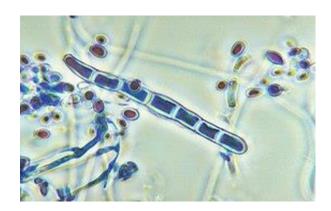
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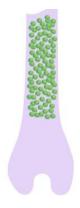
To date, the science knows more than 100,000 species of mushrooms, of which about 500 are pathogens for humans and animals. Mycosis are contagious and rapidly spreading, especially among children. The disease is transmitted from a sick or diseased animal to a person by contact or by using items contaminated by him.



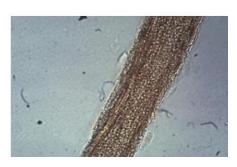
Trichofitia disease. The pathogens are fungi belonging to the trichofiton family, which are divided into two groups depending on how the hair fiber is damaged.

- 1. Trichophyton endothrix (endo-in, trixfrom Latin - hair), mycelium filaments with spores of the fungus are observed inside the hair and cause superficial trichofitia.
- 2. Trichofiton ectotrix (ecto-external), fungi parasitize on the surface of the hair rod and cause deep trichothia.





endothrix



Epidemiology. Surface trichofitia is often transmitted in direct contact with the patient. Pathogenic trichofitons can also be transmitted from various objects used by patients with trichothytis: combs, headgear, etc. Most often children get sick, they are infected from relatives who have been suffering from chronic trichofitia for years. And deep, festering-infiltrating (purulent) trichofitia is transmitted mainly from pets (cattle, sheep, goats, horses, pigs, rodents, mice, rats). According to the data collected, the incidence of trichofitia in endemic areas of Uzbekistan has increased significantly over the past five years. In view of the increase in morbidity among the population of the Republic, epidemiological analysis of the detection and spread of this disease should be carried out annually in order to ensure timely control and prevention of the disease.



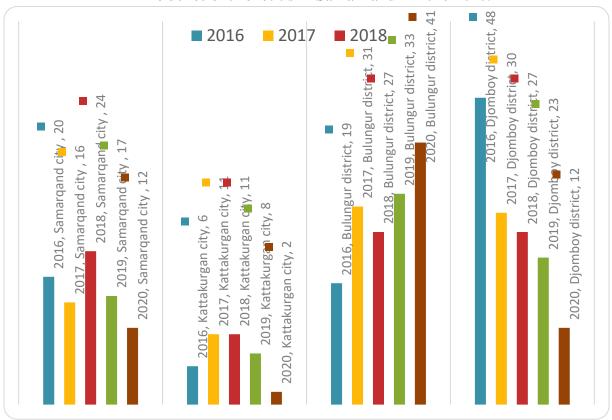


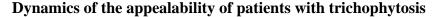


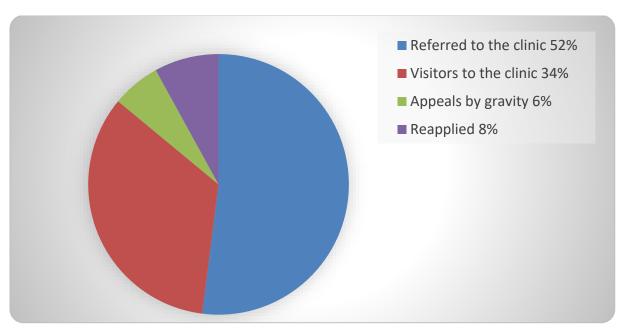
According to recent studies, in the Central Asian republics, including Uzbekistan, there has been an increase in the incidence of zooanthropocentric trichofitia among the population in recent years. The main pathogens of zooanthroponosis trichophyton

verrucosum and Trichophyton mentagrophytis var. gypseum, whose incidence varies from region to region and within countries. The morbidity rate for the past five years in the Samarkand region is presented below.

Incidence of trichotitis in Samarkand in 2016-2020.







Research **Relevance:** Due the unfavourable epidemiological and sanitary situation in different countries of the world, as well as the deteriorating social situation among dermatovenerologists and health care organizers, many prevalence issues become topical, Etiology, clinical current treatment and prevention of zooanthroponic mycosis, including trichofitium. In recent years, many researchers have noted some changes in the clinical flow of zooanthropocentric trichothium, the appearance among them of atypical forms. In the pathogenesis of zooanthroponosis trichofitia, along with

adverse environmental and metabolic factors that reduce the normal physiological protective function of the skin, great importance is attached to immunological disorders and changes in non-specific resistance. Despite the fact that many different types of effective modern antifungal drugs have been developed for the treatment of trichofitia and on their basis various methods of treatment have been proposed, the problems of treatment of trichofitia are still relevant. Therefore, prevention of fungal skin diseases is now considered more urgent.

Disease surveillance according to living conditions

№	Samrkand's	Number of patients	Number of patients	Number of patients
	Region	living in satisfactory	living in	living in difficult
		living conditions (5	moderately	living conditions
		years)	satisfactory living	(within 5 years)
			conditions	
			(for 5 years)	



1	Samarqand city	21	44	25
2	Kattakurgan city	16	10	3
3	Bulungur district	11	44	104
4	Djomboy district	5	51	84

Materials and methods: Data of anamnestic, clinical-epidemiological and laboratory examination of patients with the diagnosis of trichofitium, who turned to the clinic of skin-venereal diseases of the Samarkand region in 2016-2020. It took into account the gender, age, living conditions of

patients, as well as the localization of the pathological process on the skin, their number, the area occupied and the duration of the process. We also used data from the official report of the Uzbekistan Sanitary and Epidemiological Agency.

					Trichophy	ytosis				
City and areas	2016 year	%	2017 year	%	2018 year	%	2019 year	%	2020 year	%
Samarkand city	20	3,8	16	3,1	24	4,5	17	3,1	12	2,2
Kattakurgan city	6	7,7	11	12,7	11	12,6	8	9,1	2	2,2
Bulungur district	19	11,1	31	17,6	27	15,1	33	18,1	41	22,1
Djomboy district	48	30,8	30	16,9	27	16,5	23	13,7	12	6,9
Ishtikhan district	23	9,9	38	16,0	32	13,2	28	11,3	21	8,3
Kattakurgan district	55	21,8	70	27,3	75	28,6	17	6,2	18	6,6
Narpay district	32	16,2	30	14,8	35	17,1	11	5,2	11	5,2

Nurabad district	42	30,3	48	32,6	42	29,2	34	2,3	49	32,7
Okdarya district	36	24,5	36	24,1	37	24,2	38	24,4	39	24,6
Payariq district	30	13,1	25	10,7	70	29,3	28	11,4	44	17,6
Pastdargom district	58	17,8	53	15,9	79	23,3	50	14,5	37	10,4
Pakhtachi district	34	25,3	30	19,1	29	20,9	24	16,9	29	19,5
Samarkand district	27	11,6	28	11.8	32	13,3	25	10,1	20	7,7
Taylak district	23	12,5	26	13.8	22	11,5	28	14,3	14	6,9
Urgut district	40	8,7	41	8,7	39	80,2	33	6,7	18	3,5
Kushrabad district	27	22,4	22	17,8	20	15,9	9	7,0	13	9,9
On the area	520	14,5	535	14,6	601	16,2	406	10,7	380	9,8

By rash area

Nº	Samarkand's regions	Rash area	Time from onset to treatment
1	Samarkand city	1-3 cm ²	1-2 weeks.
2	Kattakurgan city	1-3 cm ²	1-3 weeks .
3	Bulungur district	9-13 cm ²	1-3 month
4	Djombay district	10-20 cm ²	2-3 months

Results and discussion. In the period from 2016 to 2020, the regional dermatovenereological dispensary registered 418 patients with the diagnosis of trichofitia

and patients aged from 3 to 82 years. The average age of 26 years. In the city of Samarkand in 2016-2020, 89 patients were registered with trichophytis, of which 62



patients, respectively 27 from cattle. Of these, 41 are men and 48 are women, including 8 children. The average age was 36. In terms of living conditions, the distribution of patients was as follows: material and living conditions satisfactory to 21 patients, average satisfactory to 44 patients, difficult living conditions for 25 patients. The area of pathological process on the skin averaged 5-10 cm 2, the number of hearths from 1 to 3, the duration of the process on average 1-2 weeks. In 2016-2020 in Kattakurgan 38 patients with trichothytis were registered, 29 of them were infected with trichofitia, respectively 9 from cattle. The number of patients with trichofitia increased by 1.5%. 16 men and 22 women, including 5 children. The average age was 29. The distribution of patients according to their living conditions was as follows: 16 patients have satisfactory living conditions, 10 have average living conditions and 3 have difficult living conditions. The area of pathological process on the skin averages 3-7 cm 2, the number of hearths from 1 to 3, the duration of the process on average 1-3 ned. In the Bulungur district for 2016-2020,151 patients with confirmed trichotitia were registered, 36 of contracted from patients trichotitia, respectively 115 from cattle. 37 men and 112 women, including 41 children. The average age was 21. According to housing conditions, the distribution of patients was as follows: material and living conditions were satisfactory - 11 patients, average and satisfactory living conditions -44 patients, difficult living conditions - 104 patients. The area of pathological process on the skin averaged 15-20 cm 2, the number of hearths from 9 to 13, the duration of the

process on average 1-3 months. In the Zhombo region, between 2016 and 2020,140 patients were registered with the diagnosis of trichofitia, of whom 19 were infected with trichofitia, respectively 121 from cattle. 21 men and 119 women, including 52 children. The average age was 22. In terms of living conditions, the distribution of patients was as follows: material and living conditions were satisfactory - 5 patients, average and satisfactory living conditions - 51 patients, difficult living conditions - 84 patients. The area of pathological process on the skin averaged 13-18 cm 2, the number of hearths from 10 to 20, the duration of the process on average 2-3 months. Of the 127 men, 291 were women. Of the 418 confirmed cases. 127 were urban residents and 291 were distributed among people living unevenly in the district centers of the region and surrounding districts. Most of the sick from the countryside show characteristic features of the development of courtyards of local residents, in particular, large yard houses with earthen walls, extension to the main buildings of buildings for cattle and small cattle, cultivated fields with aryks, Ponds that serve as water supplies in some courtyards are due to its existence. There were only four family cases in five years, two of which involved all family members (3-5)In the analysis appeals of to the dermatovenerological dispensary of the Samarkand region, it was found that 52 per cent of patients were sent from the Samarkand region to confirm the initial diagnosis, 34 per cent of patients had previously contacted the dispensary for other reasons, 6 per cent of patients turned

themselves, And only 8% of patients came back.

Incidence of dermatomycosis in 2016 in Samarkand region

city/	mic	rosp	oria	00 01			nytosis	<u></u>			of the f		Ĭ		mycosis	
location	Ab s	Int	Childr en	%	Ab s	Int	Childr en	%	Ab s	Int	Childr en	%	Ab s	Int	Childr en	%
Samarka nd city					20	3,8	1	5,0	79	15, 2			82	15, 7		
Kattakur gan city					6	7,7	4	66, 6	21	24, 8			4	4,7		
Bulungu r district					19	11, 1	10	52, 6	20	11, 6			16	9,3	3	18, 7
Djombay district	24	15, 4	8	33, 3	48	30, 8	18	37, 5	22	14, 1	7	31, 8	26	16, 7	4	15, 4
Ishtikhan district					23	9,9	15	65, 2	18	7,7			12	5,2		
Kattakur gan district	3	1,2			55	21,	24	43, 6	16	6,4	4	25, 0	17	6,7	3	17, 6
Narpay district	5	2,5			32	16, 2	12	37, 5	11	5,6			12	6,1		
Nurabad district	2	1,4	1	50, 0	42	30, 3	17	40, 5	12	8,6			10	7,2		
Okdarya district	3	2,0	3	100 ,0	36	24, 5	21	58, 3	30	20, 4	4	13, 3	14	9,5	2	14, 3
Payaryk district					30	13, 1	14	46, 6	11	6,1	5	35, 7	12	5,2	1	8,3
Pastdarg om district					58	17, 8	27	46, 5	41	12, 6			13	3,9		
Pakhtach i district					34	25, 3	8	23, 5	15	11, 5	3	20, 0	16	11, 9	3	18, 7
Samarka nd district					27	11, 6	10	37, 0	25	10, 7			15	6,5		
Tailak district	4	2,2			23	12, 5	14	60, 8	28	15, 2	6	26, 1	28	15, 2	4	14, 3



Urgut district					40	8,7	15	37, 5	24	5,2	3	12, 5	14	3,0	2	14, 3
Kushrab ad district					27	22, 4	17	62, 9	12	9,9			10	8,3		
By region for 2016 year	41	1,1	12	31,	52 0	14, 5	227	43, 6	38 5	10, 7	32	8,2	30 1	8,4	22	7,3
By region for 2015 year	43	1,2	12	27, 9	55 8	15, 8	238	42, 9	38 0	10, 8	31	8,1	28	8,1	21	7,4

Incidence of dermatomycosis in 2017 in the Samarkand region

city/ location		mic	rosporia	ı	Tric	chopl	hytosis		My	coses	s of the	feet	Ony	ychoi	mycosis	
location	Ab	In	Childr	%	Ab	Int	Childr	%	Ab	Int	Childr	%	Ab	Int	Childr	%
	S	t	en before		S		en before		S		en before		S		en before	
Samarka nd city					16	3.1	8	50, 0	60	11, 5			20	3,8		
Kattakur gan city	2	2, 3	2	10 0	11	12. 7	9	81, 8	17	17, 4	1	5,8	5	5,8		
Bulungur district					31	17. 6	17	54, 8	18	7,9			14	5,7	4	28, 6
Djombay district	6	3, 7	1	16, 6	30	16, 9	11	36, 6	20	11, 9	2	10, 0	19	11, 3	1	5,3
Ishtikhan district					38	16. 0	18	47. 4	14	5,9			12	5,1		
Kattakur gan district	3	1, 2	1	33, 3	70	27, 3	37	52, 8	15	5,8	15	100	15	5,8	2	13, 3
Narpay district					30	14. 8	13	43, 3	12	5,9			10	4,9		

Nurabad district	1	0, 7	1	10 0	48	32, 6	17	36, 9	14	7,1	3	21, 4	11	7,8		
Okdarya district					36	24, 1	18	50, 0	20	11, 4	5	25, 0	15	6,7	2	13, 3
Payaryk district	2	0, 8	1	50, 0	25	10. 7	8	31, 8	14	5,9	3	21, 4	11	4,7		
Pastdarg om district					53	15. 9	28	52, 8	16	4,5			14	3,6		
Pakhtach i district					30	19, 1	9	26, 9	12	7,3			17	10, 9	3	17, 6
Samarka nd district					28	11. 8	9	32, 1	22	8,4	4	18, 1	15	5,5	2	13, 3
Taylak district	1	0, 5			26	13. 8	11	22, 2	31	11, 2	7	22, 6	27	11, 2	6	22, 2
Urgut district	2	0, 4			41	8,7	17	41, 9	15	2,7			23	4,7	3	13, 0
Kushrab ad district					22	17, 8	5	23, 8	15	9,7			11	8,1	1	9,1
By region for 2017 year	17	0, 5	6	35, 3	53 5	14, 6	236	44, 1	31 5	8,5	40	12, 7	23 9	6,3	24	10, 0

Dermatomycosis morbidity in 2018 in Samarkand region

city/ location		mic	rosporia		Т	rich	ophytos	is	My	/cosi	s of the f	feet	Ony	ychoi	mycosis	
100001011	A	Int	Childr	%	A	Int	Childr	%	A	Int	Childr	%	A	Int	Childr	%
	bs		en		bs		en		bs		en		bs		en	
		under 12					under				under				under	
							12				12				12	
			years				years				years				years	
Samarka	6	1,1	6	10	24	4,5	15	62,	30	5,6			15	2,8		
nd city	U	1,1	U	0	24	4,5	13	5	30	5,0			13	2,0		
Kattakur					11	12,	5	45,	23	26,	2	8,7	5	5 7		
gan city					11	6	5	5	23	4	<i>L</i>	0,7	3	5,7		



D 1						1.5		70		1.1						10
Bulungu					27	15,	19	70,	20	11,	3	15	15	8,4	2	13,
r district						1		4		2						3
Djombay					27	16,	13	48,	18	11,			14	8,6	2	14,
district						5		1		0						3
Ishtikhan					32	13,	15	46,	21	8,6			9	3,7		
district						2		8								
Kattakur						28,		61,		11,						
gan					75	6	46	3	30	5			19	7,3	1	5,3
district																
Narpay					35	17,	12	34,	16	7,8			16	7,8	2	12,
district					33	1	12	3	10	7,0			10	7,0		5
Nurabad					42	29,	22	52,	11	7,6			13	9,0		
district					72	2	22	4	11	7,0			13	7,0		
Okdarya					37	24,	22	59,	28	18,	6	21,	20	13,	3	15,
district					31	2	22	5	20	3	O	4	20	1	3	0
Payaryk	25	10,	_	20,	70	29,	21	44,	10	7.5	4	22,	12	<i>-</i> 1		
district	25	5	5	0	70	3	31	3	18	7,5	4	2	13	5,4		
Pastdarg						22						20				20
om					79	23,	52	65,	17	5,0	5	29,	15	4,4	3	20,
district						3		8				4				0
Pakhtach						20,		31,		13,				13,		
i district					29	9	9	0	18	0			19	7		
Samarka																
nd					32	13,	16	50,	19	7,8	4	21,	13	5,4	1	7,7
district						3	10	0		,,,		1	10		_	.,.
Taylak						11,		27,		16,		28,		11,		31,
district	2	1,0			22	5	6	3	32	7	9	1	22	5	7	8
Urgut				50,		80,		46,				10,				10,
district	2	0,4	1	0	39	2	18	2	19	3,9	2	5	20	4,2	2	0
				U												
Kushrab	2	1 4			20	15,	8	40,	17	13,	2	11,	13	10,	2	15,
ad	2	1,6			20	9	8	0	1 /	5	2	7	13	4	2	4
district																
By .				22		1.			22			10	2.4			10
region	37	0,9	12	32,	60	16,	309	51,	33	9,1	37	10,	24	6,5	25	10,
for 2018				4	1	2		4	7			9	1			4
year																

Incidence of dermatomycosis in 2019 in Samarkand region

						Of th	nem			
	TOTALDI	Per	mic	crosporia	Tric	chophytosi s		cosis of ne feet		onycho ycosis
City/district	TOTALIN G	100000 populatio n	ab s	childre n before 12 years	abs	children under 12	abs	childre n under 12	abs	childre n under 12
Samarkand city	68	12,6	10	9	17	8	26	2	15	1
Kattakur gan city	44	50,0			8	4	33	3	3	
Bulungur district	60	32,8	1	1	33	9	15		11	
Djombay district	48	28,8			23	8	11		14	
Ishtikhan district	63	26,9			28	13	25	2	10	2
Kattakur gan district	50	18,7			17	11	22	6	11	3
Narpay district	43	20,8			11	1	18		14	
Nurabad district	59	39,7			34	21	13		12	2
Okdarya district	79	50,1			38	21	21	7	20	5
Payaryk district	78	30,1	7	2	28	12	21	-	22	-
Pastdargom district	84	23,5			50	30	16		18	4
Pakhtachi district	62	41,7			24	6	18		20	
Samarkand district	65	25,1			25	7	26	3	14	2
Taylak district	110	55,0	2		28	12	43	11	37	9



Urgut district	77	14,9			33	16	21		23	
Kushrabad district	41	31,5	3	3	9	4	16		13	
TOTALIN G	1031	26,8	23	15	40 6	183	34 5	34	25 7	28

Incidence of dermatomycosis in 2020 in Samarkand region

Towns/	Totaling	On 100000 Hace secretions	Of them									
location			microsporia		Trichophytosis		Mycosis of the feet		Onycho mycosis			
			abs	Of which, children under 12	abs	Of which, children under 12	abs	Of which, children under 12	abs	Of which, children under 12		
Samarkand city	42	7,7	8	5	12	6	12	1	10			
Kattakur gan city	22	24,5			2	2	17		3			
Bulungur district	63	33,8	1	1	41	22	8		13			
Djombay district	33	19,2			12	2	12	2	9			
Ishtikhan district	60	23,7			21	9	27	3	12	3		
Kattakur gan district	56	20,6			18	9	26	5	12	4		
Narpay district	31	14,6			11	4	12		8			
Nurabad district	82	54,7			49	21	18	3	15	3		
Okdarya district	87	54,8			39	26	25	4	23	3		
Payaryk district	69	27,6	3	1	44	12	13		9			

Pastdargom district	67	18,7			37	25	14	2	16	3
Pakhtachi district	68	45,7			29	15	20		19	
Samarkand district	52	20,1			20	11	11	1	21	
Taylak district	67	33,4			14	5	31	6	22	4
Urgut district	60	11,6			18	9	22	3	20	2
Kushrabad district	36	27,5	4	4	13	4	9		10	
TOTALING	895	23,1	16	11	380	182	277	30	222	22

Conclusions: Based on the data on the number of patients given above, it has been established that over the past five years in the Samarkand region the disease is more severe with a wide spread in rural areas, and in urban areas the disease is easier. As a result of the analysis of the anamnesis data in our work it has been established that the average age of the patients of trichofity in rural areas is younger than in urban areas. In addition, the number of patients is on a downward trend in 2020. The uneven spread of the disease in different regions is evidently related to the characteristics of social and natural conditions.

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