Baština Akademije nauka i umjetnosti Bosne i Hercegovine

RADOVI LXVII, knj. 21.

Huković, Seid

1982

Akademija nauka i umjetnosti Bosne i Hercegovine

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Preuzeto s Baštine Akademije nauka i umjetnosti Bosne i Hercegovine

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YU — ISSN 0350-0071
AKADEMIJA NAUKA I UMJETNOSTI BOSNE I HERCEGOVINE

RADOVI

KNJIGA LXVII

ODJELJENJE MEDICINSKIH NAUKA

Knjiga 21.

ZBORNIK RADOVA

U SPOMEN AKADEMIKA

JOSIPA JEŽIĆA

ANU BiH АНУ БиХ

Urednik
SEID HUKOVIĆ,
redovni član Akademije nauka i umjetnosti
Bosne i Hercegovine

Tehnički urednik
ENES EKIĆ

SARAJEVO
1982.

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NATURAL COURSE OF ENDEMIC DERMATOPHYTOSES IN BOSNIA AND HERZEGOVINA

III. Family incidence and distribution

(Acepted by the Department of Medical Sciences at the Session on June 9 1981. according to the reviews of Prof. dr J. A. Gaon and Prof. dr H. Serdarević.)

ABSTRACT: The authors present and discuss family incidence and distribution of endemic dermatophytoses (trichophytosis—T. violaceum, favus—T. schoenleini) in a group of well controlled villages in the course of investigations lasting 3—15 years. On the presented household-lists representing relationship between family members, the authors document existence and persistence of infections in families and individual family members and dynamics of the disease without an influence and of that influenced by appropriate treatment (griseofulvin). The predominant significance is streesed of female (mothers and grand mothers) patients, as the most important source of infection in the family, although some other source's (possibly the school) could not be excluded.

INTRODUCTION

In our previous publications we reported on the investigations of the significance of the soil's dermatophytes and keratinophilous fungi for the epidemiology of endemic dermatophytoses in Bosnia and Herzegovina (1981), as well as the general morbidity and dynamics of endemic dermatophytoses through several years after the systematic examinations of all population, based on census lists of these regions. Some regions were investigated several times in the course of the period of investigation lasting from 3 to 15 years.

Summarizing the previous results of our investigations, we have established that systematic examinations of all population are very important

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These result are a part of investigations carried out at the [1]Institute for Dermatovenerology »Dr S. Milošević« — Sarajevo, as joint investigation with [2] Mycology Division, C D C, Atlanta, Georgia, PL 480, No. 02-3352Z-178.

as well as the control of the disease in families, and that the endemic dermatophytoses should be treated as familial infections (Grin—Ožegović, 1960).

In this investigation, we used the same method of investigation of all population in respective village-regions, based on census lists and the households list. In the course of these investigations 25.908 persons were examined from 1960 to 1976. However, it should be mentiond that in the last year of the investigation only the infected persons and households were controlled.

All specimens of hair obtained from the examined people in investigated areas were controlled in the Mycological Laboratory in the Institute microscopically and by cultures, and the field examinations were carried out by skilled personnel, by physicians and technicians. As positive findings were regarded exclusively the ones established as positive clinically, microscopically and by culture.

Isolated dermatophytes in these investigations were as a rule related to *T. violaceum,* as an agent of the superficial trichophytosis, and *T. schonleini* as the agent of favic lesions. On the significance of other dermatophytes we have already reported extensively (Grin-Ožegović, 1960; Grin-Ožegović-Šimić, 1972; Ožegović, 1975).

RESULTS AND DISCUSSION

These results are presented in lists. It should be report and investigation we left the intentionally grouped villages their natural course of endemic dermatophytoses (Kopice, Ravne, Krivajevići) without any treatment, in contrast to those treated with griseofulvin in the course of a pilot study (Grin, 1962), such as Rastuša. Althcugh in our investigations we had the same experience in many other villages, we do not present them here.

In the village of Kopice there were few or no changes in the course of the period 1967—1976: the number of infected persons was bigger (from 22 to 28), but the number of the carriers of the infection (infected persons) elder than 20 remained the same (lists 1, 2, 3, 11, 12, 16). As a rule these are the females from 26 to 40 years old (lists 2, 12, 16), and also older than 60 (lists 1, 3, 12, 13). In these families we have regarded the endemic dermatophytoses as familial infections, but at the same time it should be remembered that for a small number of infections we were not able to discover the source of infection in family of infected persons (lists 3, 7, 8, in part 11, 13), and that other sources of infection could not be excluded (school, neighborhood).

It is interesting that in one person (femlae) the spontaneous cure of infection was noted (list 16, number 9), whereas all other carriers of infections remained the same. For the males from the lists 11 and 12 it should

supposed that they vere cured, but they were not examined at that time, and and this hypothesis is not too valid.

Also, in the village of Ravne it could be seen that in the course of the investigations (1967—1972) the infections were stable and that the carriers of the infections as a rule remained the same persons. There were double infections, favus and trichophytosis (list 1), and trichophytosis only.

On list 1 the course of infection from the mother could be clearly demonstrated, but when favus appeared in the children, the source of infection remained obscure. As the father was not investigated, it could be supposed that he was this possible source of infection. From the same list it could be seen how the traces of young infected women are lost when they get married and moved to other families, where they become a (new?) source of infection, especially for children. Epidemiologically important is the infection of the woman from List 4: from that infected person there was no spreading of the infection, because she was treated in the course of our investigations.

The village of Krivajevići was controlled three years only, but the previous statements could be generally applied to this village too. The stability of the infection in families is related to the source of infection, as a rule to the female persons (mother, lists 7 and 10) or to some not quite clear sources of infection in favic patients, although from the status of the father it could be concluded that the father was the source of infection (list 2). However, the significance of the mother in this family could not be neglected. In this village there were also individual cases which remained the only infected members in the family (list 4), the »independent« cases of infection for which we could not find a source of infection in the family (list 1 and 9).

The village of Rastuša represents another group, vhich in 1960 was treated by griseofulvin, and the control examinations were carried out three times in 1960 in six months intervals, after the end of the therapy, and in 1972 and 1975, as new control examinations of all treated houses and people.

Rastuša represents a village with a very high morbidity rate (156 infected with an average morbidity of 12,9%) which is exceptional in our conditions. The total number of infected people were distributed in 73 families, from which there follows that in each family more than 2 persons were infected. This statistical way of interpretation is not fully correct, but in such a large group it is easier to see the regularities. The table represents the distribution of the persons infected in familis.

Table 1.

1 member infected in family	44,73%
2 members infected in family	23,48%
3 members infected in family	15,78%
4 members infected in family	10,52%
5 members infected in family	3,94%
6 members infected in family	1,31%

Table 2.

Sex and age distribution of patients in endemic dermatophytoses in Bosnia and Herzegovina

Village	Kopice		Ravne		Krivajevići		Rastuša		All		All
	male	female	male	female	male	female	male	female	male	female	
age											
0— 5	2	1	2	2	0	3	5	5	9	11	20 (9,04%)
6—11	7	6	1	1	0	4	19	24	27	35	62 (28,05%)
11—15	2	1	1	3	0	4	13	16	16	24	40 (18,09%)
16—20	2	1	2	3	2	1	8	16	14	21	35 (15,83%)
21—30	0	1	0	2	0	1	4	25	4	29	33 (14,93%)
31—40	0	0	0	0	0	0	0	8	0	8	8 (3,61%)
41 and more	0	2	0	3	0	3	0	13	0	23	23 (10,40%)
	13	12	6	14	2	16	49	107	70 (31,67%)		151 (68,32%)

From this, there follows a very important distribution of individual infections, for which it is much easier to find an explanation if it is an elderly untreated patient, presumably woman (list 11, 12, 13, 14, 20), but not so easy when the patients are children for whose parents or relatives living with them we were not able to prove that they were infected (lists 2, 3, 4, 6, 7, 15). Typical examples of familial infections are also in Rastuša (lists 8, 10, 16, 29, 33, 35, 38, 45, 50), as well as the not fully discerned cases of individual infections in families. We should suppose that the infections spread easily in the exposed and receptive, but although all the inhabitants are more or less exposed, they are not all infected. When all or the most of individuals in a household are infected, the reason for that should be sought in the inner nature of the infected. In the same manner, in the uncured patients after the puberty the basic cause is in the diminished secretion of 17-ketosteroids, based presumably on the same dysfunction of the neuroendocrine system Grin-Zec-Štern, (1958). That is the very reason for the uneven sex and age distribution of the infected. In Rastuša, it could be seen that the greatest number of infected were in the age from 6 to 10 (27,56%, and 18,58% resp.) and that the infections up to the age of 30 were established in similar numbers (18,58% — 15 year, 15,38%—20 year, 18,58%—30 year), but thereafter there was a sharp decline of infections. However, in these age groups, the number of the infected by the sex and age distribution was not the same. After the loth year of life in male patients the number of infections declined sharply and after the 30th year there was not observed any single case of infection in men, while in women this number of infected was on the same level, but also on a higher level in the age group betwen 21 and 30. A significant number of infected women were found in higher age groups, where they were the only infected persons. In fact, from all infected persons, after their 15th year, males were infected in 7,68% of cases, while in women after their 15 th year there were 39,72% infected.

It can be concluded from our results, that these patients play a very important role as a reservoir of infection in maintaining and spreading the infections of endemic dermatophytoses.

CONCLUSIONS

Endemic dermatophytoses in their natural course represent very stable infections, which without intervention, especially the appropriate therapy, do not change or do not change significantly. Although the greatest part of these infections in restricted to the individual family member, still of greatest significance for maintainning and spreading of these infections are infections in the family, especially from elder female persons. The prevalence of female patients after the puberty is one of the prominent parts of epidemiology in endemic dermatophytoses.

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PRIRODNI RAZVOJ ENDEMSKIH DERMATOFITIJA U BOSNI I HERCEGOVINI

KRATAK SADRŽAJ

Autori su istraživali dinamiku endemskih dermatofitija na području Bosne i Hercegovine. Kao objekat istraživanja promatrana su, u periodu od 2—12 godina, sela na području endemskih dermatofitija, koja su podijeljena na ona u kojima je vršena klasična terapija grizeofulvinom i takva u kojima nije bilo nikakve terapije. Ukupno je pregledano više od 25.000 stanovnika. Na osnovu istraživanja koja su vršena po kućnim listama i pregledom svog stanovništva, autori dolaze do zaključka da su endemske dermatofitije veoma stabilne infekcije koje se bez odgovarajuće intenzivne terapije mijenjaju slabo ili nikako. Jedino je terapija griezofulvinom pokazala drastičan pad broja oboljelih i eliminirala izvore infekcije. Porast standarda i zdravstveno prosvećivanje imaju utjecaja, ali je taj utjecaj spor i slab.

Autori i ovog puta ističu ulogu oboljelih žena u održavanju i širenju infekcije, koje nakon navršene 20. godine života predstavljaju jedini ili gotovo jedni izvor infekcije. Autori smatraju da se endemske dermatofitije moraju tretirati, u prvom redu, kao porodične infekcije.

(Prilog: Household — liste, 14.)

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ZAVOD ZA KOŽNE I VENERIČNE BOLESTI
»Dr S. MILOŠEVIĆ« — SARAJEVO

HOUSEHOLD — LIST 1

Community: MAGLAJ
Village: Kopice

	Relationship	to	age	Examinations			Remarks
				1967	1972	1976	
1.	head of household		1934				
2.	wife	1	1937	—	—	—	
3.	daughter	1/2	1959	+T	+T	+T	
4.	daughter	1/2	1962	+T	—	—	
5.	daughter	1/2	1963	—	+T	+T	
6.	daughter	1/2	1967	—	—	—	
7.	son	1/2	1968		—	—	
8.	son	1/2	1970		—	—	

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HOUSEHOLD — LIST 2

Community: MAGLAJ
Village: Kopice

	Relationship	to	age	Examinations			Remarks
				1967	1972	1976	
1.	head of household		1902	—	—	—	
2.	wife	1	1904	+T	+T	+T	
3.	daughter	1/2	1947	—			married
4.	son	1/2	1950				
5.	granddaughter	1/2	1956	—			
6.	wife	4	1953		—		
7.	son	4	1971		—		

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HOUSEHOLD — LIST 3

Community: MAGLAJ
Village: Kopice

	Relationship	to	age	Examinations			Remarks
				1967	1972	1976	
1.	head of household		1929				
2.	wife	1	1934	—	—		
3.	son	1/2	1953				
4.	daughter	1/2	1958	+T	+T	+T	
5.	son	1/2	1961	+T	+T	+T	
6.	daughter	1/2	1965	—	—	—	
7.	son	1/2	1967		—	+T	
8.	daughter	1/2	1970		—	—	
9.	son	1/2	1975			—	

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HOUSEHOLD — LIST 7

Community: MAGLAJ
Village: Kopice

Relationship	to	age	Examinations 1967	1972	1976	Remarks
1. head of household		1923	—	—		
2. wife	1	1923	—	—		
3. daughter	1/2	1949	—	—		
4. son	1/2	1952	—	—		
5. daughter	1/2	1955	—	—		
6. son	1/2	1958	+T	+T		
7. son	1/2	1960	+T	+T		
8. daughter	1/2	1963	—	—		
9. son	1/2	1967	—	—		
10. daughter	1/2	1968		+T		

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HOUSEHOLD — LIST 8

Community: MAGLAJ
Village: Kopice

Relationship	to	age	Examinations 1967	1972	1976	Remarks
1. head of household		1948	—			
2. wife	1	1948		—	—	
3. son	1/2	1970		+T	+T	

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HOUSEHOLD — LIST 11

Community: MAGLAJ
Village: Kopice

Relationship	to	age	Examinations 1967	1972	1976	Remarks
1. head of household		1935	—	—	—	
2. wife	1	1934	—	—	—	
3. son	1/2	1953	+T			
4. son	1/2	1958	—	—		
5. daughter	1/2	1957	—			
6. son	1/2	1963	+T	+T	+T	
7. daughter	1/2	1961	—	+T	+T	
8. son	1/2	1965	—	—		
9. son	1/2	1967		+T	+T	
10. daughter	1/2	1971		—	—	

T = Trichophytosis
F = Favus

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HOUSEHOLD — LIST 12

Community: MAGLAJ
Village: Kopice

	Relationship	to	age	Examinations			Remarks
				1967	1972	1976	
1.	head of household		1917	—	—	—	
2.	wife	1	1923	+T			
3.	son	1/2	1946				
4.	wife	3	1946	—	—	—	
5.	dahghter	3/4	1966	—	+T	+T	
6.	son	1	1951	+T			
7.	daughter	1/2	1953	+T			married, moved
8.	daughter	1/2	1957	—			married, moved
9.	daughter	1/1	1960	+T	+T	+T	
10.	daughter	1/2	1963	—	+T	+T	
11.	daughter	3/4	1968		+T	+T	
12.	daughter	3/4	1972		—	+T	
13.	wife	6	1950		—	—	
14.	daughter	6/13	1970		—	+T	
15.	son	3/4	1973			+T	
16.	daughter	6/13	1975			—	

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HOUSEHOLD — LIST 13

Community: MAGLAJ
Village: Kopice

	Relationship	to	age	Examinations			Remarks
				1967	1972	1976	
1.	head of household		1917	—	—	—	
2.	wife	1	1916	—	—	—	
3.	son	1/2	1947				
4.	wife	3	1948	—	—	—	
5.	daughter	3/4	1965	—	+T	+T	
6.	son	3/4	1969		—	+T	
7.	son	1/2	1953	—	—	—	
8.	son	3/4	1974			—	
9.	daughter	3/4	1976				
10.	son	1/2	1949	—			

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HOUSEHOLD — LIST 16

Community: MAGLAJ
Village: Kopice

	Relationship	to	age	Examinations			Remarks
				1967	1972	1976	
1.	head of household		1923	—			
2.	wife	1	1923	+T	+T	+T	
3.	daughter	1/2	1947	—	—		
4.	son	1/2	1949				
5.	daughter	1/2	1951	—	—		
6.	son	1/2	1956	+T	—		
7.	son	1/2	1964	—	+T	+T	
8.	daughter	1/2	1966	—	+T	+T	
9.	daughter	1/2	1950	+T	—		

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HOUSEHOLD — LIST 1

Community: MAGLAJ
Village: Ravne

	Relationship	to	age	Examinations			Remarks
				1967	1972	1976	
1.	head of household		1923	—	—	—	
2.	wife	1	1922	+T	+T		
3.	son	1/2	1947	+T	—		treated
4.	daughter	1/2	1949	F+T			married, moved
5.	daughter	1/2	1949	F+T			married, moved
6.	daughter	1/2	1953	F+T	F+T		
7.	daughter	1/2	1958	+F	—		
8.	son	1/2	1960	+F	+T	+T	
9.	son	1/2	1962	—	F+T		
10.	daughter	3	1972		—	—	
11.	wife	3	1942		—		
12.	son	3/11	1971		—	—	
13.	son	3/11	1962		—		
14.	daughter	3/11	1959		—	—	
15.	daughter	3/11	1966		—	—	

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HOUSEHOLD — LIST 2

Community: MAGLAJ
Village: Ravne

Relationship	to	age	Examinations			Remarks
			1967	1972	1976	
1. head of household		1933	—	—	—	
2. wife	1	1936	—	—	—	
3. daughter	1/2	1955	+T			married, moved
4. daughter	1/2	1959	+T	+T	+T	
5. daughter	1/2	1961	+T	+T	+T	
6. son	1/2	1964	+T	+T	+T	
7. son	1/2	1966	—	—	—	
8. mother	1	1887	+T		—	died 1970.
9. relative female	1	1950	+T			married, moved
10. daughter	1/2	1968		+T	+T	
11. daughter	1/2	1968		+T	+T	

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HOUSEHOLD — LIST 4

Community: MAGLAJ
Village: Ravne

Relationship	to	age	Examinations			Remarks
			1967	1972	1976	
1. head of household		1923	—	—		
2. wife	1	1920	+T	—		
3. son	1/2	1946				
4. daughter	1/2	1948	—	—		
5. relative, male	1	1959	—			
6. wife	3	1950	—			
7. son	3/6	1968		—		
8. daughter	3/6	1970		—		

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HOUSEHOLD — LIST 1

Community: KLADANJ
Village: Krivajevići

Relationship	to	age	Examinations		Remarks
			1973	1975	
1. head of household		1914	—	—	
2. wife	1	1921	—	—	
3. daughter	1/2	1958	+F	+F	
4. son	1/2	1960	—	—	

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HOUSEHOLD — LIST 2

Community: KLADANJ
Village: Krivajevići

Relationship	to	age	Examinations 1973	Examinations 1975	Remarks
1. head of household		1927	—		
2. wife	1	1931	—	—	
3. son	1/2	1952	—	—	
4. daughter	1/2	1955	+F	+F	
5. daughter	1/2	1958	+F	+F	
6. daughter	1/2	1961	+F	+F	
7. daughter	1/2	1964	+F	+F	
8. daughter	1/2	1967	—	+F	
9. daughter	1/2	1971	+F	+F	
10. wife	3	1954		—	

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HOUSEHOLD — LIST 3

Community: KLADANJ
Village: Krivajevići

Relationship	to	age	Examinations 1973	Examinations 1973	Examinations 1975	Remarks
1. head of household		1920	—	—	—	
2. wife	3	1946	—	—	—	
3. son	1	1947				
4. daughter	2/3	1967	+F			
5. son	2/3	1969	+F		—	
6. daughter	1	1958	—	—	—	
7. son	1	1961	+F		—	
8. daughter	2/3	1974			—	

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HOUSEHOLD — LIST 4

Community: KLADANJ
Village: Krivajevići

Relationship	to	age	Examinations 1973	Examinations 1975	Remarks
1. head of household		1902			
2. wife	1	1908	+F	+F	
3. son	1	1953	—	—	Status post favus treated
4. son	1	1949			
5. wife	3	1955		—	
6. daughter	3	1975		—	

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HOUSEHOLD — LIST 7

Community: KLADANJ
Village: Krivajevići

Relationship	to	age	Examinations			Remarks
			1973	1973	1975	
1. head of household		1927				
2. wife	1	1926	—	+T	+T	
3. son	1/2	1955	+T			
4. daughter	1/2	1960	+T		+T	

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»Dr S. MILOŠEVIĆ« — SARAJEVO

HOUSEHOLD — LIST 9

Community: KLADANJ
Village: Krivajevići

Relationship	to	age	Examinations		Remarks
			1973	1975	
1. head of househol		1911			
2. wife	1	1918		—	
3. son	1/2	1945			
4. wife	3	1948	—	—	
5. son	1/2	1957	+F		moved-school
6. son	3/4	1970	—	—	
7. son	3/4	1974		—	

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ZAVOD ZA KOŽNE I VENERIČNE BOLESTI
»Dr S. MILOŠEVIĆ« — SARAJEVO

HOUSEHOLD — LIST 10

Community: KLADANJ
Village: Krivajevići

Relationship	to	age	Examinations		Remarks
			1973	1975	
1. head of household		1942		—	
2. wife		1943	+T	+T	
3. daughter	1/2	1962	+FT	+FT	
4. daughter	1/2	1965	+FT	+FT	
5. daughter	1/2	1967	+FT	+FT	
6. daughter	1/2	1969	+T	+T	
7. daughter	1/2	1971	+T	+T	
8. son	1/2	1975		—	

ZAVOD ZA KOŽNE I VENERIČNE BOLESTI
»Dr S. MILOŠEVIĆ« — SARAJEVO

Treated 1960

HOUSEHOLD — LIST 2

Community: TESLIĆ
Village: Rastuša

	Relationship	to	age	Examinations					Remarks
				1960	1960	1960	1972	1975	
1.	head of hosehold		1907	—				—	
2.	wife	1	1908	—				—	
3.	son	1/2	1944	+T	—		—	—	
4.	son	1/2	1942	—	—		—		
5.	son	1/2	1949	—	—		—		
6.	daughter	1/2	1953	—	—		—	—	
7.	wife	3	1941				—	—	
8.	wife	4	1946					—	
9.	son	3/7	1962					—	—
10.	daughter	3/7	1963					—	—

ZAVOD ZA KOŽNE I VENERIČNE BOLESTI
»Dr S. MILOŠEVIĆ« — SARAJEVO

Treated 1960

HOUSEHOLD — LIST 3

Community: TESLIĆ
Village: Rastuša

	Relationship	to	age	Examinations					Remarks
				1960	1960	1960	1972	1975	
1.	head of household		1912	—	—	—	—	—	
2.	son	1	1940						
3.	daughter	1	1943	+T	—	—	—	—	
4.	son	1	1947	+T	—	—	—	—	
5.	daughter	1	1950	+T	—	—	—	—	
6.	wife	4	1948					—	
7.	son	4/6	1971					—	

ZAVOD ZA KOŽNE I VENERIČNE BOLESTI
»Dr S. MILOŠEVIĆ« — SARAJEVO

Treated 1960

HOUSEHOLD — LIST 4

Community: TESLIĆ
Village: Rastuša

	Relationship	to	age	Examinations					Remarks
				1960	1960	1960	1972	1975	
1.	head of household		1927	—				—	
2.	wife	1	1929	—	—			—	
3.	son	1/2	1949	+T	—		—	—	
4.	son	1/2	1952	—	—		—	—	
5.	son	1/2	1953	—	—		—	—	
6.	son	1/2	1955	+T	—		—	—	
7.	son	1/2	1957	+T	—		—	—	
8.	wife	3	1951					—	
9.	daughter	3/8	1971					—	

ANU BiH АНУ БиХ

ZAVOD ZA KOŽNE I VENERIČNE BOLESTI
»Dr S. MILOŠEVIĆ« — SARAJEVO *Treated 1960*

HOUSEHOLD — LIST 6

Community: TESLIĆ
Village: Rastuša

	Relationship	to	age	Examinations					Remarks
				1960	1960	1960	1972	1975	
1.	head of household			1924					
2.	wife		1	1924	—	—	—	—	
3.	son		1/2	1946	—	—	—	—	
4.	son		1/2	1951	+T	—	—	—	
5.	daughter		1/2	1955	—	—	—	—	
6.	wife		3	1943	—			—	
7.	wife		5	1953				—	

ZAVOD ZA KOŽNE I VENERIČNE BOLESTI
»Dr S. MILOŠEVIĆ« — SARAJEVO *Treated 1960*

HOUSEHOLD — LIST 7

Community: TESLIĆ
Village: Rastuša

	Relationship	to	age	Examinations					Remarks
				1960	1960	1960	1972	1975	
1.	head of household			1912	—	—	—	—	
2.	wife		1	1912	—	—	—	—	
3.	son		1/2	1940	—			—	
4.	wife		3	1936	—	—	—	—	
5.	son		1/2	1942	—	—	—	—	
6.	wife		5	1939	—	—	—	—	
7.	son		1/2	1947	+T	—	—	—	
8.	daughter		3/4	1958	—	—	—	—	
9.	wife		7	1942					
10.	daughter		7/9	1968				—	—
11.	daughter		7/9	1971				—	
12.	son		3/4	1960				—	—
13.	daughter		3/4	1969				—	—

ZAVOD ZA KOŽNE I VENERIČNE BOLESTI
»Dr S. MILOŠEVIĆ« — SARAJEVO *Treated 1960*

HOUSEHOLD — LIST 8

Community: TESLIĆ
Village: Rastuša

	Relationship	to	age	Examinations					Remarks
				1960	1960	1960	1972	1975	
1.	head of household			1927	—				
2.	wife		1	1930	+T	—	—	—	
3.	son		1/2	1944	—	—	—	—	
4.	daughter		1/2	1947	+T	—	—	—	
5.	daughter		1/2	1951	—	—	—	—	
6.	daughter		1/2	1953	—	—	—	—	
7.	daughter		1/2	1957	—	—	—	—	
8.	daughter		1/2	1960				—	
9.	son		1/2	1963				—	
10.	daughter		1/2	1966				—	—
11.	daughter		1/2	1970				—	

ANU BiH АНУ БиХ

ZAVOD ZA KOŽNE I VENERIČNE BOLESTI
»Dr S. MILOŠEVIĆ« — SARAJEVO

Treated 1960

HOUSEHOLD — LIST 10

Community: TESLIĆ
Village: Rastuša

Relationship	to	age	Examinations 1960	1960	1960	1972	1975	Remarks
1. head of household		1903	—	—	—			
2. wife	1	1904	+T	—	—	+T	+T	
3. daughter	1/2	1935	+T	—	—	—		
4. daughter	1/2	1937	—	—	—			treated in
5. son	1/2	1939						Sarajevo
6. son	1/2	1945	+FT	+F	+F			moved
7. son	1/2	1950	+T	—	—	—		Australia
8. wife	5	1939				—		
9. wife	7	1950						
10. daughter	7/9	1975					—	

ZAVOD ZA KOŽNE I VENERIČNE BOLESTI
»Dr S. MILOŠEVIĆ« — SARAJEVO

Treated 1960

HOUSEHOLD — LIST 11

Community: TESLIĆ
Village: Rastuša

Relationship	to	age	Examinations 1960	1960	1960	1972	1975	Remarks
1. head of household		1909	—			—		
2. wife	1	1922	—	—		—	—	
3. daughter	1/2	1943	+T	—		—	—	
4. son	1/2	1945	—	—		—		
5. son	1/2	1947	—	—		—	—	
6. son	1/2	1950	—	—		—		
7. son	1/2	1953	—	—		—		
8. daughter	1/2	1955	—	—		—	—	
9. daughter	1/2	1957	—	—		—	—	
10. wife	6	1954					—	

ZAVOD ZA KOŽNE I VENERIČNE BOLESTI
»Dr S. MILOŠEVIĆ« — SARAJEVO

Treated 1960

HOUSEHOLD — LIST 12

Community: TESLIĆ
Village: Rastuša

Relationship	to	age	Examinations 1960	1960	1960	1972	1975	Remarks
1. head of household-wife		1924	—	—		—	—	
2. daughter	1	1942	—	—		—	—	
3. son	1	1947	+T	—		—	—	
4. daughter	1	1954	—	—		—	—	
5. daughter	1	1957	—	—		—	—	
6. wife	3	1947					—	
7. son	3/6	1969					—	
8. daughter	3/6	1972					—	—

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ZAVOD ZA KOŽNE I VENERIČNE BOLESTI
»Dr S. MILOŠEVIĆ« — SARAJEVO

Treated 1960

HOUSEHOLD — LIST 13

Community: TESLIĆ
Village: Rastuša

	Relationship	to	age	Examinations					Remarks
				1960	1960	1960	1972	1975	
1.	head of household		1930	—			—		
2.	wife	1	1937	+T	—	—	—		
3.	mother	1	1890	—		—			died
4.	son	1/2	1961				—	—	
5.	daughter	1/2	1963				—	—	

ZAVOD ZA KOŽNE I VENERIČNE BOLESTI
»Dr S. MILOŠEVIĆ« — SARAJEVO

Treated 1960

HOUSEHOLD — LIST 14

Community: TESLIĆ
Village: Rastuša

	Relationship	to	age	Examinations					Remarks
				1960	1960	1960	1972	1975	
1.	head of household		1932	—				—	
2.	wfie	1	1935	+T	—	—		—	
3.	daughter	1/2	1959	—	—	—		—	
4.	daughter	1/2	1965					—	—

ZAVOD ZA KOŽNE I VENERIČNE BOLESTI
»Dr S. MILOŠEVIĆ« — SARAJEVO

Treated 1960

HOUSEHOLD — LIST 15

Community: TESLIĆ
Village: Rastuša

	Relationship	to	age	Examinations					Remarks
				1960	1960	1960	1972	1975	
1.	head of household		1908	—	—	—	—		
2.	wife	1	1918	—	—	—	—		
3.	son	1/2	1940	+T	—	—	—		
4.	daughter	1/2	1944	—	—	—			
5.	son	1/2	1950	+T	—	—	—		
6.	wife	3	1940			—	—		
7.	daughter	3/6	1961					—	—
8.	daughter	3/6	1964					—	—
9.	son	3/6	1966					—	—
10.	daughter	3/6	1971					—	—

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ZAVOD ZA KOŽNE I VENERIČNE BOLESTI
»Dr S. MILOŠEVIĆ« — SARAJEVO

Treated 1960

HOUSEHOLD — LIST 16

Community: TESLIĆ
Village: Rastuša

Relationship	to	age	Examinations					Remarks
			1960	1960	1960	1972	1975	
1. head of household		1925	—					
2. wife	1	1932	+T	—	—	—		
3. daughter	1/2	1953	+T	—	—	—		
4. son	1/2	1956	—	—	—			
5. son	1/2	1963				—	—	

ZAVOD ZA KOŽNE I VENERIČNE BOLESTI
»Dr S. MILOŠEVIĆ« — SARAJEVO

Treated 1960

HOUSEHOLD — LIST 20

Community: TESLIĆ
Village: Rastuša

Relationship	to	age	Examinations					Remarks
			1960	1960	1960	1972	1975	
1. head of household		1929						
2. wife	1	1936	+T	—	—	—		
3. son	1/2	1959	—	—	—	—		
4. san	1/2	1961				—		
5. son	1/2	1963				—	—	
6. daughter	1/2	1964				—	—	
7. daughter	1/2	1969				—	—	

ZAVOD ZA KOŽNE I VENERIČNE BOLESTI
»Dr S. MILOŠEVIĆ« — SARAJEVO

Treated 1960

HOUSEHOLD — LIST 29

Community: TESLIĆ
Village: Rastuša

Relationship	to	age	Examinations					Remarks
			1960	1960	1960	1972	1975	
1. head of household		1919	—		—	—		
2. wife	1	1922	+T	—	—	—		
3. daughter	1/2	1944	—	—	—	—		
4. daughter	1/2	1946	+T	—	—	—		
5. son	1/2	1950	—	—	—			
6. son	1/2	1954	—	—	—	—		
7. son	1/2	1958	—	—	—	—		
8. daughter	1/2	1948	—	—	—	—		

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ZAVOD ZA KOŽNE I VENERIČNE BOLESTI
»Dr S. MILOŠEVIĆ« — SARAJEVO

Treated 1960

HOUSEHOLD — LIST 31

Community: TESLIĆ
Village: Rastuša

	Relationship	to	age	Examinations					Remarks
				1960	1960	1960	1972	1975	
1.	head of household — wife		1917	—	—	—	—		
2.	son	1	1937	—					
3.	son	1	1940	—		—			
4.	son	1	1943	—		—	—		
5.	son	1	1946	+T		+T			
6.	son	1	1950	—	—	—			
7.	son	1	1952	+T	—	+T	+T		
8.	wife	3	1940	—	—	—	—		

ZAVOD ZA KOŽNE I VENERIČNE BOLESTI
»Dr S. MILOŠEVIĆ« — SARAJEVO

Treated 1960

HOUSEHOLD — LIST 33

Community: TESLIĆ
Village: Rastuša

	Relationship	to	age	Examinations					Remarks
				1960	1960	1960	1972	1975	
1.	head of household		1932			—			
2.	wife	1	1936	+T	—	—	—		
3.	daughter	1/2	1955	+T	—	—	—		
4.	daughter	1/2	1957	+T	—	—	—		
5.	son	1/2	1962				—	—	

ZAVOD ZA KOŽNE I VENERIČNE BOLESTI
»Dr S. MILOŠEVIĆ« — SARAJEVO

Treated 1960

HOUSEHOLD — LIST 35

Community: TESLIĆ
Village: Rastuša

	Relationship	to	age	Examinations					Remarks
				1960	1960	1960	1972	1975	
1.	head of household — wife		1905	+T	—	—			died
2.	son	1	1943	+T	—	—	—		
3.	daughter	1	1942	+T	—	—			
4.	daughter	1	1950	+T	—	—	—		
5.	son	1	1934						
6.	wife	5	1942			—	—		
7.	wife	2	1939				—		
8.	son	2/7	1965				—	—	
9.	daughter	2/7	1968				—	—	
10.	son	2/7	1969				—	—	
11.	daughter	2/7	1969				—	—	
12.	son	5/6	1969				—	—	

АНУ ВиН АНУ БиХ

ZAVOD ZA KOŽNE I VENERIČNE BOLESTI
»Dr S. MILOŠEVIĆ« — SARAJEVO

Treated 1960

HOUSEHOLD — LIST 38

Community: TESLIĆ
Village: Rastuša

	Relationship	to	age	Examinations 1960	1960	1960	1972	1975	Remarks
1.	head of household		1925						
2.	wife	1	1927	+T	—	—	—	—	
3.	daughter	1/2	1951	+T	—	—	—	—	
4.	daughter	1/2	1953	+T	—	—	—	—	
5.	son	1/2	1955	—	—	—	—	—	
6.	daughter	1/2	1957	—	—	—	—	—	
7.	aunt	1	1904	—	—	—	—	—	

ZAVOD ZA KOŽNE I VENERIČNE BOLESTI
»Dr S. MILOŠEVIĆ« — SARAJEVO

Treated 1960

HOUSEHOLD — LIST 45

Community: TESLIĆ
Village: Rastuša

	Relationship	to	age	Examinations 1960	1960	1960	1972	1975	Remarks
1.	head of household		1908	+T			+T	+T	
2.	son	1	1927	—		—	—	—	
3.	wife	2	1927	—	—	—	—	—	
4.	son	1	1938	—	—	—	—	—	
5.	wife	4	1938	—	—	—	—	—	
6.	son	1	1942	—					
7.	son	1	1945	+T	—	—	—	—	
8.	son	4/5	1956	—	—	—	—	—	
9.	daughter	4/5	1960	—	—	—	—	—	
10.	son	4/5	1958	—	—	—	—	—	
	and to 21 in age from		1942	to 1971 all negatives					

ANU BiH АНУ БиХ

ZAVOD ZA KOŽNE I VENERIČNE BOLESTI
»Dr S. MILOŠEVIĆ« — SARAJEVO

Treated 1960

HOUSEHOLD — LIST 50

Community: TESLIĆ
Village: Rastuša

	Relationship	to	age	Examinations 1960	1960	1960	1972	1975	Remarks
1.	head of household		1920	+T	—	—	—	—	
2.	son	1/6	1944	+T	—	—	—	—	
3.	daughter	1/6	1949	+T	—	—	—	—	
4.	son	1/6	1952	+T	—	—	—	—	
5.	daughter	1/6	1953	+T	—	—	—	—	
6.	wife	1	1943				—	—	
7.	daughter	2	1960				—	—	
8.	son	2	1968				—	—	
9.	wife	4	1952				—	—	