Significance of chronic toxoplasmosis in epidemiology of road traffic accidents in Russian Federation

(Protocol of the investigation)

Objectives

The objectives of our studies were to determine:

a) the prevalence of chronic toxoplasmosis in population of Moscow city and Moscow region; b) to determine a probable role of the disease in the epidemiology of the RTA in Russian Federation.

Background

Worldwide interest and concern to the emerging problem of toxoplasmosis in general and to its' chronic form in particular had been demonstrated during the last 15-20 years, when new dimensions of the disease had been established. Results of the monitoring of Toxoplasma –infected persons have revealed behavioral changes among them as compared with uninfected persons. Intensity of such changes has closely correlated with the duration of chronic toxoplasmosis. It appears that the mechanism determining the personality changes is associated with an increase in the production of the neurotransmitter dopamine, affecting motor activity, aggression and social behavior of a person. Once in the nerve or inside the muscle tissue, the parasite forms cysts that cause the development of chronic toxoplasmosis. It was found that Toxoplasma localized in the nerve cells of the brain, stimulates the production of dopamine, thus reducing the reaction time and concentration and, thereby, increases the risk of various incidents that have been convincingly demonstrated in epidemiological studies in the Czech Republic and the Republic of Turkey. Subsequent observations among toxoplasmosis - infected persons, conducted in various countries, confirmed the significant behavioral changes, including personality changes, IQ loss and altered psychomotor activity, particularly increased risk of involvement in road traffic accidents.

Study population and methods of recruitment

In order to establish a general prevalence of chronic Toxoplasmosis among residents of Moscow city, examinations had been carried out among persons attending the Outpatient Department at the Clinical Center of the Sechenov First Moscow State Medical University. No special criteria had been selected for examination in terms of age-, sex- and occupation. Total of 1272 persons had been examined.

The main study represented by two groups: experimental and control.

The experimental group consisted of persons in a possession of valid driving license, and being hospitalized because of a road traffic accident for which they had been held responsible. All persons in the experimental group were the patients of the Sklifosovsky Medical Emergency Institute, Moscow. The criteria for inclusion were:

a) prove that admitted person was driving at the time of accident;

- b) evidence that their actions/behavior had led to the occurrence of the accident;
- c) age from 18-45 years.

The criterion for exclusion was driving at the time of an accident under the influence of alcohol/drugs. Total of 100 persons constituted the experimental group -65 men and 35 women.

The control group consisted of 152 healthy persons aged 18-45 years (82 men and 70 women), who were undertaking routine medical examination at the Clinical Centre of the Sechenov University.

Study design

An analytical epidemiological "case-control" study was carried out. All study patients tested for the presence of IgG and IgM specific antibodies to *Toxoplasma gondii*. Determination of specific immunoglobulin G and M in the blood serum of

the study groups (experimental and control) were determined by enzyme-linked immunosorbent assay (ELISA) test-kits "Vector-Toxo of IgG" and "Vector Toxo-IgM" producer JSC "VECTOR-BEST". Indicator of chronic toxoplasmosis in patient was a presence of IgG in the absence of IgM. Appendix 1 provides a schematic of the study design.

Statistical analysis

Statistical significance of the results both in the experimental and control groups was obtained through the use of χ^2 criterion, and calculated the odds ratio (OR) with a level of reliability not less than 95%. The Statistical Package EpiInfo Version was employed for calculations.

To assess the strength of the connection between the presence of toxoplasmosis in the experimental and control groups, and the belonging to the compared groups (driver-control), we calculated the Pearson Correlation, which was 0.201 (p = 0.01).

Ethics

The study was approve by the Research Ethics Board of Health of the Sechenov First Moscow State Medical University (protocol № 04-13, 10.04.2013). Participants in the experimental and control groups were informed about the purposes of the study, and informed consent in verbal form was obtaine before enrollment in the study.

Results

The prevalence of chronic toxoplasmosis in the residents of Moscow city is presented in table (Appendix 2).

The results of the examination of blood serum in the experimental and control groups are presented in Appendices 2 and 3.

As seen in Table (Appendix 3), the immunoglobulin M was absent in both groups, whereas immunoglobulin G was present in 45% of those tested in the experimental group compared to 26% in the control group. The absence of the immunoglobulin

IgM in conjunction with the presence of IgG suggests the presence of persons with exclusively the chronic form of toxoplasmosis in both the experimental and control groups. It was found that the number of seropositive subjects with IgG in the experimental group was significantly higher than that in the control group. Thus, among the persons involved in traffic accidents who were responsible for their occurrence, the incidence of cases with chronic toxoplasmosis was more than twice that in the control group.

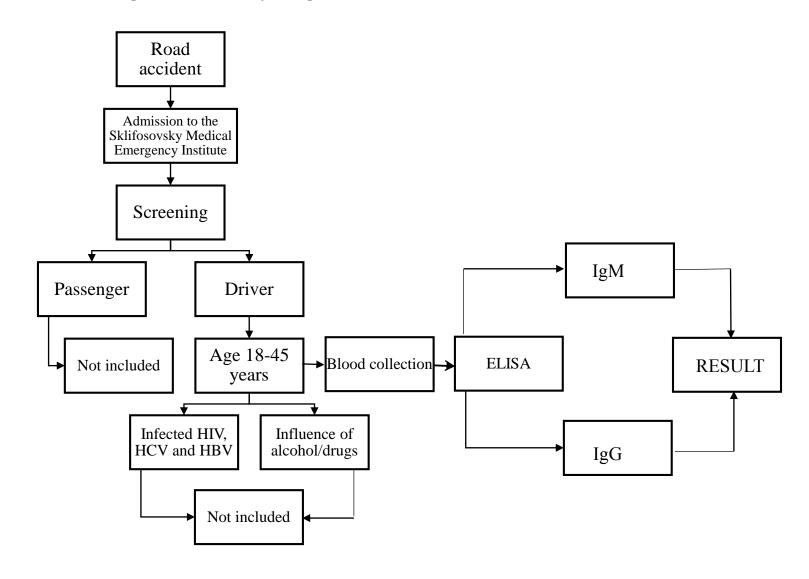
The data in table (Appendix 4) show that the effect of toxoplasmosis was significant and similar for men (OR=2.2, CI95=1.04-4.66, p<0.02) and women (OR=2.6, CI95=1.02-6.8,p<0.02). There is no statistically significant difference in the ratio of seropositive men (p<0.02) and women (p<0.02) in the experimental and control groups. It can also be seen that there was practically no difference in the prevalence of chronic toxoplasmosis among men and women in the control group (26.8% and 24.3%, respectively). Almost the same trend was found in the experimental group among men and women, although the level of prevalence was almost 2 times higher compared with the control group.

To assess the strength of the connection between the presence of toxoplasmosis in the experimental and control groups, and the belonging to the compared groups (driver-control), we calculated the Pearson Correlation, which was $0.201 \ (p = 0.01)$.

The data in table (Appendix 5) show that there was no statistically significant difference between the studied groups with respect to sex and age.

The partial correlation coefficient with respect to age and sex was calculated as 0.202 (p=0.01). Similar results were obtained in a stratified analysis using an estimate for the overall odds ratio as the Mantel-Haenszel Common Odds Ratio Estimate, when stratified by sex. The adjusted OR was 2.35 CI 1.37-4.03.

Appendix 1. The block diagram of the study design.



Appendix 2. Prevalence of Chronic Toxoplasmosis Among the Residents of Moscow City (Russian Federation), 2015.

Group		Positive results (ELISA test)	
	Examined	Absolute number	Percent (%)
Total number	1272	323	25.39
Men	497	120	24.14
Women	775	203	26.19

Appendix 3. Comparative Prevalence of Immunoglobulins M and G to *Toxoplasma gondii* in the Experimental Group and the Control Group.

Group	examined	Absolu numb		Positive results (%)	Odds ratio	C.I.95	p-values
		IgM	IgG	resurts (70)	Tatio		
Case	100	0	45	45.00	2.37	1.34-	0.001
					2.37	4.2	0.001
Control	152	0	39	25.66			

Appendix 4. Comparative Gender Prevalence of Chronic Toxoplasmosis in the Experimental Group and the Control Group.

	Experimental group		Control group						
Group	Examine d	Positiv	e results	Examined	Positive	e results	Odds ratio	C.I. ₉₅	p-values
		Absolute number	Percent (%)		Absolute number	Percent (%)			
Men	65	29	44.61	82	22	26.83	2.2	1.04-4.66	0.02
Women	35	16	45.71	70	17	24.28	2.63	1.02-6.8	0.02

Appendix 5. The Results of Multivariate Analysis.

Factor	Total (252)	Experimental (100)	Control (152)	p-values
Men	147	65	82	
IVICII	58,3%	65,0%	53,9%	p=0,091
Women	105	35	70	p=0,091
w onlen	41,7%	35,0%	46,1%	
	34,30	34,31	34,50	
Age	SE=7,11	SE=7,77	SE=6,66	p=0,836
	SD=0,45	SD=0,78	SD=0,54	

Appendix 6. Experimental Group

N of sample	sex	results	age
104892	famale	negative	43
104878	male	positive	35
105129	famale	negative	22
106612	male	positive	35
106613	male	negative	45
108133	male	negative	21
108378	male	negative	31
108380	male	negative	28
108512	male	negative	42
109014	male	negative	26
109034	male	positive	41
108942	male	positive	31
108943	male	positive	25
111024	male	negative	20
111001	male	negative	28
111191	male	negative	21
111174	male	negative	40
111318	male	positive	39
111294	male	negative	39
111491	male	negative	33
109147	male	positive	31
109316	male	positive	25
109312	male	positive	42
110410	male	positive	44
110451	male	negative	24
111679	male	negative	43
111681	male	positive	43
111882	famale	negative	23
111851	male	negative	39

112137	male	positive	41
112284	male	positive	31
112446	male	negative	45
112425	male	positive	45
112410	male	negative	31
112695	male	positive	44
112696	male	negative	30
113058	male	positive	36
113250	male	negative	33
113219	male	positive	31
113501	male	negative	29
113474	male	positive	29
113519	male	negative	27
114311	male	positive	32
114356	male	negative	43
114409	male	positive	19
144512	male	negative	23
114892	male	positive	34
114924	male	positive	23
115089	male	negative	39
115020	male	positive	24
115419	male	negative	45
115899	male	negative	44
115779	male	negative	42
116070	male	negative	42
116069	male	negative	33
3116369	male	negative	26
3116373	male	positive	34
116490	male	negative	31
116669	male	positive	33
116695	male	negative	29
116707	famale	positive	18
116982	male	negative	37
116984	male	positive	26
117177	male	negative	37
117315	famale	positive	44
118099	male	positive	33
118216	male	negative	29
123399	famale	positive	27
127043	male	positive	26
127046	male	negative	30
128969	famale	positive	40
128885	male	positive	38
104485	famale	positive	41
104877	famale	negative	42
105914	famale	negative	21

105956	famale	negative	39
106667	famale	negative	40
108222	famale	negative	29
108359	famale	positive	44
108360	famale	positive	41
108361	famale	negative	24
109021	famale	negative	30
111007	famale	negative	43
111050	famale	negative	42
111508	famale	negative	37
109162	famale	positive	45
111680	famale	negative	44
112522	famale	positive	45
112637	famale	negative	35
113517	famale	positive	42
114652	famale	negative	38
114307	famale	positive	27
114621	famale	negative	28
114789	famale	positive	45
115019	famale	positive	24
115087	famale	positive	38
115861	famale	negative	41
116233	famale	positive	35
3116382	famale	negative	45
3116378	famale	positive	34

Appendix 7. Control Group

N of sample	sex	results	age
1	male	positive	40
2	male	positive	41
3	male	negative	34
4	male	negative	38
5	male	negative	34
6	male	negative	26
7	male	negative	30
8	male	negative	34
9	male	negative	41
10	male	negative	34
11	male	negative	34
12	male	negative	38
13	male	positive	34
14	male	positive	41
15	male	positive	45
16	male	positive	28

17			45
18	male	negative	
19	male	negative 	45
	male	negative	32
20	male	negative	45
21	male	negative	45
22	male	negative	45
23	male	negative	42
24	male	negative	36
25	male	negative	41
26	male	negative	42
27	male	negative	42
28	male	negative	42
29	male	negative	38
30	male	negative	39
31	male	negative	34
32	male	positive	39
33	male	negative	32
34	male	negative	39
35	male	negative	39
36	male	negative	39
37	male	positive	27
38	male	positive	31
39	male	positive	43
40	male	positive	41
41	male	positive	41
42	male	negative	43
43	male	negative	43
44	male	negative	41
45	male	negative	43
46	male	negative	20
47	male	negative	41
48	male	negative	37
49	male	negative	43
50	male	negative	32
51	male	negative	29
52	male	negative	31
53	male	negative	26
54	male	negative	43
55	male	negative	43
56	male	negative	26
57	male	negative	43
58	male	positive	43
59	male	positive	29
60	male	positive	43
61	male	positive	43
62	male	positive	30
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63	male	negative	30
64	male	negative	30
65	male	positive	26
66	male	positive	26
67	male	positive	30
68		·	30
69	male	negative	28
70	male	negative	37
71	male	negative	31
72	male	negative	30
73	male	negative 	41
73	male	negative 	
	male	negative	30
75	male	negative	27
76	male	positive	30
77	male	positive	30
78	male	negative	21
79	male	negative	39
80	male	negative	30
81	male	negative	41
82	male	negative	30
83	female	positive	30
84	female	negative	30
85	female	positive	28
86	female	negative	37
87	female	negative	31
88	female	negative	30
89	female	negative	41
90	female	negative	30
91	female	negative	27
92	female	negative	30
93	female	positive	30
94	female	negative	21
95	female	negative	39
96	female	negative	30
97	female	negative	41
98	female	positive	30
99	female	positive	41
100	female	negative	43
101	female	negative	20
102	female	negative	41
103	female	negative	37
104	female	negative	43
105	female	negative	32
106	female	positive	29
107	female	negative	31
108	female	negative	26
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109	female	negative	43
110	female	positive	43
111	female	negative	26
112	female	positive	43
113	female	negative	43
114	female	negative	29
115	female	negative	43
116	female	positive	43
117	female	negative	30
118	female	negative	42
119	female	positive	36
120	female	negative	41
121	female	negative	42
122	female		42
123	female	negative positive	42
124	female	•	38
125	female	negative	39
126	female	negative positive	34
127	female	•	39
	female	negative 	
128		negative 	32
129	female	negative	41
130	female	negative	43
131	female	negative	20
132	female	positive	41
133	female	negative	37
134	female	negative 	43
135	female	positive	32
136	female	negative	29
137	female	negative	31
138	female	negative	26
139	female	negative	43
140	female	negative	43
141	female	negative	26
142	female	positive	43
143	female	negative	43
144	female	negative	29
145	female	negative	36
146	female	positive	31
147	female	negative	29
148	female	negative	37
149	female	negative	34
150	female	negative	22
151	female	positive	41
152	female	negative	33

Appendix 8. Prevalence of Chronic Toxoplasmosis Among the Residents of Moscow City 112 (Russian Federation), 2015

N of sample	sex	results	age
65595	male	positive	20
65598	female	positive	39
65603	female	positive	55
65604	female	positive	20
65610	male	positive	41
65614	female	positive	20
65615	female	positive	37
65616	male	negative	29
65622	female	negative	31
65628	female	positive	20
65633	female	positive	33
65639	female	positive	33
65642	female	positive	20
65645	female	negative	69
65646	female	negative	63
65647	female	negative	47
65652	female	positive	58
65653	female	negative	20
65655	female	negative	40
65657	male	positive	35
65661	male	negative	62
65662	female	positive	45
65664	female	negative	29
65666	male	negative	20
65667	female	positive	20
65668	female	positive	34
65673	male	negative	36
65674	female	negative	55
65675	male	positive	39
65682	female	positive	22
65686	female	negative	31
65687	male	negative	27
65695	female	negative	66
65698	female	negative	33
65699	female	negative	20
65708	male	negative	20
65710	female	negative	43
65711	female	positive	31
65713	female	negative	50
65717	male	negative	20
65721	female	negative	31
65728	female	negative	45

65729	female	negative	20
65730	female	negative	67
65738	female	negative	20
65741	female	negative	30
65743	female	negative	44
65749	female	negative	25
65752	male	negative	20
65754	female	negative	20
65755	male	positive	48
65756	female	positive	18
65758	male	negative	20
65759	female	negative	39
65763	female	negative	31
65764	male	negative	20
65765	female	negative	20
65766	female	negative	44
65768	female	negative	45
65770	female	negative	46
65772	female	positive	46
65774	female	positive	20
65779	female	positive	36
65790	female	negative	48
65791	male	negative	29
65793	male	negative	34
65796	female	negative	24
65797	male	negative	39
65804	male	negative	19
65807	male	negative	20
65809	female	negative	36
65811	female	negative	18
65812	female	positive	20
65816	male	negative	20
65818	female	negative	50
65822	female	negative	20
65823	female	negative	40
65827	female	negative	36
65828	male	negative	39
65829	male	negative	20
65830	male	negative	20
65832	female	negative	32
65833	male	negative	22
65835	male	negative	20
65839	male	positive	35
65840	male	negative	35
65842	male	negative	33
65843	female	negative	37

65844	male	negative	24
65846	male	negative	18
65847	male	negative	54
65848	female	positive	24
65853	female	negative	34
65854	female	negative	66
65857	male	negative	35
65858	male	negative	27
65860	female	positive	35
65861	female	negative	28
65869	female	positive	61
65871	female	positive	36
65872	male	positive	29
65875	male	negative	46
65876	male	positive	26
65877	female	positive	35
65878	female	positive	27
65879	female	negative	32
65882	male	negative	45
65885	female	negative	35
65891	female	negative	31
65892	female	negative	57
65898	female	negative	63
65899	male	negative	35
65906	female	negative	46
65910	male	negative	18
65911	female	negative	70
65916	male	positive	35
65918	male	positive	34
65930	female	positive	36
65931	male	positive	35
65933	male	negative	40
65936	male	negative	35
65939	male	negative	30
65942	male	negative	35
65950	female	negative	72
65954	male	negative	35
65956	female	positive	35
65959	female	positive	35
65960	female	negative	23
65961	female	negative	41
65962	female	negative	35
65969	female	negative	35
65970	female	negative	35
65971	female	negative	29
65973	female	positive	64

female	positive	35
male	negative	22
male	negative	35
male	negative	40
female	negative	35
female	negative	49
female	negative	70
female	negative	49
female	positive	53
female	negative	37
male	negative	35
female	negative	55
male	negative	35
female	negative	22
female	negative	35
male	positive	35
female	negative	29
female	negative	60
male	negative	31
female	negative	35
male	negative	35
female	positive	52
female	negative	36
male	negative	61
female	negative	29
female	positive	35
female	positive	35
female	negative	26
female	negative	56
male	positive	37
female	negative	34
female	negative	37
female	negative	37
female	positive	26
female	negative	54
female	negative	28
male	negative	32
female	positive	30
male	negative	52
female	negative	35
male	positive	27
female	negative	37
male	positive	39
female	negative	28
female	negative	51
female	negative	29
	male male male female	male negative male negative male negative female negative male negative female negative

66126 male negative 32 66128 female negative 42 66130 female negative 45 66135 female negative 46 66139 female negative 54	4 5 6 4
66130 female negative 45 66135 female negative 46	5 6 4
66135 female negative 46	6 4
	4
66139 female negative 54	
	2
66140 female negative 42	
66142 female negative 32	1
66144 female negative 29	9
66146 male positive 35	5
66149 female negative 35	5
66151 female negative 32	1
66155 male negative 25	5
66158 female negative 27	7
66161 female positive 47	7
66167 female negative 42	1
66168 female negative 27	7
66172 female negative 28	8
66173 female negative 29	9
66175 male negative 42	1
66176 female negative 52	
66179 female positive 33	
66180 male negative 35	
66181 male negative 35	
66182 male negative 65	5
66183 female negative 35	5
66186 female negative 35	5
66188 female negative 27	7
66189 female negative 79	9
66193 female negative 35	
66195 female negative 36	6
66196 female positive 33	1
66197 male negative 35	5
66198 female negative 62	2
66199 female negative 29	9
66200 male positive 57	7
66202 female negative 24	4
66204 female negative 38	8
66205 female negative 35	5
66207 male positive 33	3
66209 male negative 62	1
66213 female positive 29	9
66218 female positive 42	1
66223 female negative 33	3
66226 female negative 30	0
66227 male negative 35	5

66228	male	negative	35
66230	male	negative	35
66233	female	negative	35
66234	female	negative	31
66236	male	negative	35
66237	female	negative	35
66238	male	negative	35
66239	female	negative	38
66242	female	negative	26
66243	female	negative	35
66244	female	negative	32
66245	female	positive	54
66252	male	negative	35
66253	male	negative	32
66255	male	negative	35
66257	female	positive	35
66260	female	negative	35
66262	female	negative	28
66263	female	negative	74
66264	female	negative	35
66269	male	negative	38
66270	male	negative	35
66272	female	negative	38
66275	female	negative	57
66279	female	negative	35
66281	female	negative	35
66286	female	negative	32
66298	female	positive	34
66302	male	negative	56
66303	male	negative	43
66304	female	negative	35
66306	female	negative	46
66309	female	negative	51
66310	female	negative	35
66315	male	positive	21
66317	female	negative	61
66318	female	negative	39
66319	female	negative	44
66322	female	negative	24
66328	male	negative	25
66331	female	negative	35
66332	female	positive	23
66333	male	negative	35
66334	female	negative	41
66335	female	negative	41
66338	male	negative	35

66342	female	negative	40
66343	female	positive	58
66350	female	positive	41
66351	female	positive	18
66357	female	negative	35
66359	female	negative	35
66363	male	negative	28
66370	female	negative	37
66374	female	positive	35
66375	female	negative	30
66376	female	negative	35
66377	female	negative	32
66378	male	positive	31
66380	male	negative	35
66381	male	negative	35
66383	male	negative	35
66388	male	positive	35
66390	female	negative	44
66396	female	negative	35
66397	female	negative	35
66399	female	negative	33
66405	male	negative	35
66411	male	positive	56
66413	male	negative	34
66414	male	positive	50
66415	male	positive	51
66416	male	negative	40
66417	male	negative	35
66419	female	positive	35
66425	male	negative	40
66429	female	negative	35
66431	female	positive	35
66436	male	positive	23
66437	male	positive	28
66442	female	negative	37
66443	male	negative	35
66444	male	negative	35
66445	male	negative	35
66447	male	negative	57
66448	female	positive	28
66455	female	negative	51
66456	female	negative	31
66460	female	negative	35
66462	female	negative	35
66463	female	positive	31
66465	male	negative	35
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66482 female positive 57 66487 female negative 32 66489 male negative 35 66491 female positive 21 66495 female negative 35 66497 male positive 35 66500 female negative 35 66507 female negative 43 66508 female positive 30 66510 male negative 29 66513 female negative 31 66515 female positive 42 66517 male negative 35 66518 male negative 35 66519 female positive 35 66529 female negative 31 66530 male negative 24 66531 female positive 57 66535
66489 male negative 35 66491 female positive 21 66495 female negative 35 66497 male positive 35 66500 female negative 35 66507 female negative 43 66508 female positive 30 66510 male negative 29 66513 female negative 31 66515 female positive 42 66517 male negative 59 66518 male negative 35 66519 female positive 35 66529 female negative 31 66530 male negative 24 66531 female positive 57 66535 female positive 57 66537 male negative 26 66545 <t< td=""></t<>
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68768	female	negative	39
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