FOR

TORSION™ nanotechnology

RESEARCH INSTITUTE FOR HEALTH PROTECTION OF MOTHERS AND CHILDREN

MOLDOVA

RESULTS

of testing the efficiency of the protection device " TORSION "

In the laboratory of the Institute was conducted research on the effects of non-ionizing radiation from cell phone on the hematological blood parameters and capabilities of TORSION protection device to protect the human body from harmful radiation. In the experiment was used mobile phone Motorola MX 3204,GSM-900/1800.

Surveyed:

1. elements of the blood and certain clinical parameters
- erythrocytes,
- leukocytes
- hemoglobin
- velocity of erythrocyte sedimentation (VES).

2. biochemical indicator - BI

3. Imunologicheski indicators

- TB - lymphocytes

- Erythrocyte antigens

- RH - factor

Scheme of the experiment: the patients had taken multiple blood samples for each analysis, as follows:

- Control samples

- Samples upon irradiation without protective device

- Samples upon irradiation with protective device

Studies were conducted twice. In the first day of the experimental samples were irradiated for 30 minutes. Were then carried reports of the control parameters of all groups. Repeated irradiation of the same samples was carried out after 4 hours of the same duration of 30 minutes. Total for the day - 1(one) hour.

The mobile phone was located next to the samples, working in receiving mode .

The second study was carried out after one week. The blood samples were exposed continuously for one hour. In the process was examined changes of the shape , size and the amount erythrocytes.

	irradiation for 30 minutes						second irradiation for 30 minutes (Total for the day 1 hour)					
	Control samples		Samples upon irradiation with protective device		Samples upon irradiation without protective device		Control samples		Samples upon irradiation with protective device		Samples upon irradiation without protective device	
	№1	№2	№1	№2	№1	№2	№1	№2	№1	№2	№1	№2
Hb	144	144	146	144	156	152						
Er.	329	332	329	326	281	265	327	329	326	324	279	263
changes							3%	4%	4%	7%	17%	25%
leukocytes	5,6	5,4	5,5	5,4	5,6	5,3	5,6	5,5	5,6	5,7	4,5	4,7
VES							3mm/h	3mm/h			4	5
B	18,7	20,4	13,6	13,6	18,8	20,4						
Time to draw blood factors in minutes												
antigens							16		18		20	
RH							20		24		25	

	irradiation for 1 hour											
	Control samples				Samples upon irradiation with protective device				Samples upon irradiation without protective device			
	№1	№2	№3	№4	№1	№2	№3	№4	№1	№2	№3	№4
Hb	152	148	148	148	152	148	144	148	156	156	148	152
er	329	404	355	361	401	403	353	359	371	380	315	338
changes									From10% up to 19%			
leukocytes	8,8	8,5	5,9	6,4	8,6	8,2	5,6	6,2	7,2	6,2	4,8	5,7
VES	3	3	4	4	3	3	4	4	3	4	5	5
antigens	8”		9”						9”		11”	
RH	12”		14”						14”		17”	

indicators	Control samples	Samples upon irradiation with protective device	Samples upon irradiation without protective device
Lymphocytes T%	43	40	30
Lymphocytes T $10^9/1$	0,77	0,72	0,54
Lymphocytes B%	13	10	13
Lymphocytes B $10^9/1$	0,23	0,18	0,23

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