

Report

on experimental work

"Investigation of the effect of the Neutronic protective device MG-03 model on the mortality of chicken embryos from the effects of a cell phone"

The purpose of the work.

The aim of the experimental work was to determine the possible effect of the Neutronic protective device on reducing the mortality of chicken embryos when exposed to electromagnetic radiation from a cell phone.

The method of the experiment.

The experiment was conducted using a biological testing technique the effects of electromagnetic fields on the development of chicken embryos using three incubation devices VGP-02-56, approved by the expert commission on 12/17/2003.

During the entire incubation period, all three incubators maintained the necessary temperature and humidity required for the successful development of chicken embryos. The temperature was in the range of 37.5 ± 0.8 °C, humidity 53.5%. There were no failures in the operation of the equipment during the experiment.

Sources of radiation.

Two cell phones were used as radiation sources

1 of SonyEricsson, model T681, IMEI No. 350372-45-912687-5, connected to a special device that ensures the operation of the phone to call a third-party subscriber according to a given time program

2 - Siemens, model C-55, S30880-S5600-S910-1, IMEI 351011371507494, connected to a power adapter and working to receive a call from a third-party subscriber.

The third Motorola Timeport 260 cell phone, model SE2472BD3US, MSN B93RBQ06QL, IMEI 350029073095833, was in the control incubator, was turned off, providing conditions for "false" exposure

The Neutronics protective device model MG-03 was placed on Siemens, model C-55, according to the instructions for use. phone

The order of operation of the phones.

The order of switching on the phones was provided by a special switching device, which is an electronic circuit connected to one phone (SonyEricsson) via a standard cable connecting the phone to a computer, the device ensured the operation of the phone with simulated voice control as through the "hands-free" system. The process of calling a third-party subscriber lasted 120 seconds before the interruption of the established call by the switching system of the mobile operator company. After a 5-minute pause, the cycle of dialing and calling the subscriber was repeated. The third-party subscriber to whom the call was made was the number of the second phone (Siemens C-55). This order of operation of the phones was chosen because it provided simultaneous (synchronous) radiation of cell phone devices, one during an outgoing call, the other while receiving an incoming call. At the same time, the radiation intensity, according to the measurements, was the same for both devices when calling and receiving the signal.

Bi-line GSM was used as a mobile operator company.

2.4.5. All three incubators work simultaneously.

2.4.6. Incubator numbers for equipment placement are chosen by the Customer

3. The protocol of the experiment

- all eggs are checked for shell defects before laying;
- eggs in all incubators are marked with a pencil from 1 to 56;
- Eggs are randomly distributed across three incubators;
- EMF irradiation of cell phones for the first and second incubators it is performed for 21 days around the clock, with a set interval (10 minutes) between the subscriber's calls and receiving a third-party call;
- The Neutronics protective device is placed on a cell phone 10 days before the start of the experiment.

4. Dosimetry. The electromagnetic field in incubators 1 and 2 will be measured by a wide-band EMR-20 field meter (0.1-3000 MHz), an EFA-3 analyzer in the frequency range of 5 Hz - 30 kHz with a measurement range from 0.1 V/m to 100 kV/m (manufactured by Wandel & Goltermann, Germany) and the Protek-3200 radio frequency analyzer (manufactured by Hung Chang, Korea). Measurements are carried out every 5 days, starting from the 1st day of incubation.

5. Study of the embryo development process. The assessment of the embryo development process will be carried out on 5, 7, 9, 11, 13, 21 the day of the experiment on the criterion of embryo mortality.

6. Preparation of the report. A report and statistical analysis of the experimental results will be prepared for transmission to the Customer 10 days after the completion of the experiment.

7. Payment for work

7.1. The Customer pays an advance payment in the amount of 50% of the contractual amount before the start of work.

7.2. The final payment is made by the Customer after receiving the report from the Contractor.


8. Additional loan obligations

8.1. In case of failure of the experiment for technical reasons, the Contractor undertakes to repeat the experiment without additional payment. The customer is obliged to make payments in full, regardless of the results of the experiment.


8.2. Publication of data on the results of the experiment is possible only by mutual agreement with the consent of the representatives of the Customer and the Contractor.

From the Customer

Director of ANO "CENTISKI "Valkon"

 B.N. Tyunyaev


General Director of Faberus-S LLC

 V.M. Gubenko

« _____ » April 2004

From the Executive

Director of the Central Bank of Russia

 Yu.G. Grigoriev

Responsible executor

 A.L. Vasin

« _____ » April 2004

Biological objects.

The breeding egg was delivered from the Kuchinsky Stud Farm, Moscow region. The Kuchinsky Jubilee tribe. The average weight of the egg is 53 g., the hatchability is 80+5%. Breeding witness No. 35 dated May and May 2004. Before laying the yangtze in the incubator, all eggs were examined for defects, broken and defective shells were rejected. In each incubator there was a- It is laid down on 56 Jan. The date of the bookmark is May 11, 2004 from 16:00 to 18:00.

The results of the experiment.

Embryo mortality was monitored on the 5th, 7th, 9th, 11th and 13th days of development, the end of development was fixed at 21 days. On the 5th day of development, neoplasms were identified, which were not considered in the further analysis of the total sample. The final experimental results are presented in Table 3.

Table 3. Mortality of chicken embryos in the experiment.

№ inc	Conditions	Quantity	Non-opl.	Opl.	Embryo death							Hatching		
					D5	D7	D9	D11	D13	D21	Sum	%	The amount	%
1	Protection	56	1	55	2	2	2	1	0	5	12	21,8	43	78,2
2	Without protection	56	4	52	0	2	2	2	1	6	13	25,0	39	75,0
3	Control	56	2	54	0	0	4	1	1	5	11	20,4	41	79,6

The statistical analysis is presented in the Appendix at the end of the report.

Discussion of the results.

The results obtained indicate a satisfactory hatchability of chicken embryos in the control group of 79.645 5%, with a hatchability of 8015%, indicated in the table- a personal certificate. This indicates that stable incubation conditions are observed during embryo development.


Embryo mortality in the experimental groups was: with protection of 21.8±56%; without protection of 25.6.1% and 20.4+5.5% in the control. The tendency of the protective effect of the "Neuro" product has been revealed- nickname" MG-03 model, but its significance is not confirmed by statistical analysis.

In our opinion, the weakness of the severity of the effect is due to the low intensity of electromagnetic radiation of the selected telephone components used in the experiment.


It is possible to predict a greater effect with an increase in the intensity of the affecting electromagnetic radiation of a cell phone, which is used in models of an earlier production time, but which are still in demand among the population. In this regard, in our opinion, in order to obtain more convincing results, it is advisable to conduct a repeat experiment with an increased intensity of electromagnetic radiation.

From the Customer:

Director of ANO "CENTISKI "Valkon"

 B.N. Tyunyaev

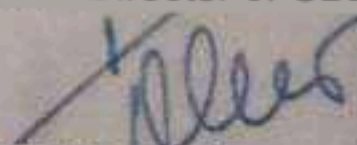
General Director of Faberus-S LLC

 B.M. Gubenko

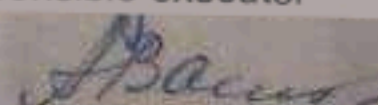
« _____ "April 2004

From the Performer

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