

Results summary of the expert report by the German IGEF on the effects of BioProtect Cards
(translation by P.Moulin, May 2009)



International Association for Electromog Research – IGEF
Certification Department

Expert Report

An evaluation of the BioProtect products made by Dr. Dietrich Grün, M.D., with regard to its protective effects against the harmful influence of electromagnetic radiation and geological irritation zones.

Evaluation Period: 15.03 – 10.04.2009
Conducting the Research: Dipl.-Ing. Paul Sommer, Chief of the Test and Research Laboratory
Evaluated Products: BioProtect Card and BioProtect Handy made by Dr. Dietrich Grün



Schleusingen (Germany), the 15. April 2009

6. Discussion

Our conclusions are based on the body of the test results and the evaluation of the biophysical values obtained in the present study.

Conclusion: BioProtect Card and BioProtect Handy, due to their protective effects, help to maintain the balance of the biological field of the organism. Because Dr. Grün's BioProtect products neutralise the harmful information of technical electromagnetic radiation and of geological irritation zones, they contribute to a more vegetative stable balance of the organism. The study included also children and young adults as test persons and the results show that using the BioProtect products improves the heart rate variability, which indicates an improved adaptability of the organism even in people, who are more exposed to the radiation.

Following are the results of this study:

- a) The microscopic evaluation of the blood using dark-field microscopy according to Prof. Enderlein showed that the application of BioProtect Handy on a mobile phone improves the quality of the blood even after an enormous exposure to electromagnetic pollution. It is expected that there will be no clotting of the red blood cells (erythrocytes) with a longer or continuous use of BioProtect Handy or BioProtect Card.
- b) The neutralisation of the radiation in a DECT phone through BioProtect raised the average stress potential of the tested persons far less than using the phone without the protection. The study showed even more clearly the neutralising effect of the BioProtect products through the development of the standard deviation of the measured values of the stress potential. The coherence of the measured values increases over time under the protection effect of the BioProtect products by over 40%.
- c) The cause of the increase of the skin temperature of the tested persons when the EMF-field was activated is probably twofold: the linking of the organism with the energy of the electromagnetic radiation and an increase of a sense of well-being. What speaks in favour of the sense of well-being of the tested persons, when they were experiencing the protective effect of BioProtect, is the rapid increase of the average values of the skin temperature by 1.4 degree Celsius in period 2 as opposed to the stagnation of the temperature values in period 3 without the presence of a neutralisation effect of the harmful part of the electromagnetic radiation.
- d) We can observe in this study a “regulating” effect of the BioProtect products on the heart rhythm, when one looks at the progression of the standard deviation of the measured values of the average heart rate.
- e) The transported volume of blood is reduced by 19% during the exposure of the electromagnetic radiation without using the protection of the BioProtect products, when compared with the period when the DECT phone was used with BioProtect.
- f) The protective effect of Dr.Grün's BioProtect in neutralising the harmful part of the technical electromagnetic radiation is most clearly shown in the improvement of the heart rate variability. The amount of effort of the cardiovascular system to maintain the vegetative balance got reduced by 9% during the period of exposure to the protective effect of the BioProtect products, which neutralised the harmful part of the EMF source. This is in contrast to the period when no protection of BioProtect was used. An increase of 17% of the heart rate variability was observed for maintaining the balance.
- g) The nerve activity of the 15 tested subjects during the period of the exposure to electromagnetic radiation without the protection of BioProtect increased by 24 %. The nerve activity increased, however, only very little when BioProtect was neutralising the harmful part of the electromagnetic radiation. These numbers were obtained by comparing the test results to the base line values.
- h) We observed an increase of coherence of the rhythmic processes of the organism when BioProtect products were used. The number of adjacent heart beat couples with an interval difference of > 50ms got reduced by 12 % , when compared with the neutral values of the base line. The radiation of the DECT phone without the protection of the BioProtect products lead immediately to an increase of the number of heart beat couples with high interval difference, which was even higher than the neutral values of the base line.

i) The study shows a reduction of the strain on the organism through the application of BioProtect Card and BioProtect Handy. This was proven in the study when observing the development of heart arrhythmia of the 15 tested subjects. With the protective effect of the BioProtect products no changes of the average base values of the heart arrhythmia was observed, when the EMF field was activated. During the period of exposure to the electromagnetic radiation without the BioProtect products the chaos in the heart rhythm increased significantly by 10 %.

j) The application of the BioProtect Card and BioProtect Handy lead to an optimization of the sympatho-vegetative balance of the tested subjects in this study. Activating the DECT phone without the protection of the BioProtect products lead to an increase of the dominance of the sympathetic activity of the vegetative nervous system.

k) The study obtained these results by exposing the tested persons for a short time to electromagnetic radiation with the protective effect of BioProtect in period 2 and in period 3 without any neutralisation product. We suspect that the positive effect of the application of Dr.Grün's BioProtect is even more significantly improved, when the cards are longer or constantly used to protect against the harmful information of the electromagnetic radiation and geological irritation zones. The coherence of the rhythmic processes of the ground regulation could be expected to improve also with person who are more exposed and stressed.

On the basis of the results of the blood test using dark-field microscopy and the biophysical examination on 15 test subjects we recommend the application of BioProtect Card and BioProtect Handy to neutralise the weakening or damaging information part of the technical electromagnetic radiation and geological irritation zones.

BioProtect fully meets all the requirements of the International Association of Electrosmog Research (IGEF) for the award of the IGEF seal "Tested and Recommended by the IGEF".

Schleusingen (Germany), the 15. April 2009

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