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# ANALYSIS OF SYSTEMATIC ERRORS AND DATA REPRODUCIBILITY OF THE GDV TECHNIQUE.

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Analysis of systematic errors, a character of statistic distribution and reproducibility of results is essential for the application of any method. The errors in the GDV technique are attributed to the following factors:

1. Stochastic character of a forming discharge;
2. Errors in measuring and processing;
3. Polluted surface of the optical glass of the device;
4. Fluctuations of external environment;

Variability of the tested object and alteration of its properties under the influence of measurements.

To analyze these factors statistic parameters of the following objects were studied:

1. Metal grounded cylinder of titanium with the 15 mm diameter and 30 mm high.
2. Samples of distilled water;
3. Samples of chemically pure salt solutions;
4. Fingers of relatively healthy and sick patients at various moments of time.

The investigation was carried out on the GDV Camera device using GDV Software. Glow area, fractality coefficient and form coefficient were calculated for each GDV-gram. Before any other set of the experiments the glass surface was dried with alcohol. Each set, except for some specially studied, included 10 successive measurements.

## **Metal cylinder**

To study systematic errors, the influence of a day period and environmental conditions (atmospheric pressure, humidity and etc.) the following experiments were run:

1. Two sets of the experiments on different days with the similar environmental conditions ( $T=22\text{ }^{\circ}\text{C}$ , moisture - 42%). Each set included 52 selections;
2. Three sets of the experiments with a 5 - minute interval;
3. Three sets of the experiments with an hour interval.

The analysis of the data obtained demonstrated, that on the first and second days the selections on the observed parameters referred to the aggregate with normal distribution.

In all the cases the average value almost coincided with the median. The median was located approximately between the 25 and 75 percentile. Moreover, 95% - 99% of values were located within two standard deviations from the average values. This allowed comparison of the data using Student's t-criteria. The assumption, that the difference between the values of the certain measurements was stochastic, was taken for the "null hypothesis". The criteria of proportion was taken for 5%.

According to the Table 1, the difference in the data obtained on different days is statistically insufficient. Thus, the "null hypothesis" is regarded unfair. With the sufficient number of selections the differences - sensitivity – can be found with probability below 8%. The comparison of quite a large amount of the data obtained in different time revealed, that stochastic errors of measurements for form coefficients and fractality coefficients don't exceed 10%, the errors of the glow area are not over 8%.

Thus, the GDV-gram parameters of a metal object meet the normal distribution with the level of systematic errors below 8-10%.

## **Distilled water and salt solutions**

The analysis of more than 3600 GDV-grams of liquid objects demonstrated, that the parameters of their GDV-grams have normal distribution. Relative deviations of their parameters vary from 1% to 8%, depending on a parameter, salt and concentration. The deviations

are minimum for form coefficient of distilled water (about 1%) and maximum for solutions of electrolytes of high concentrations (about 7-8%).

In such an investigation the sensitivity of the statistic criteria depending on the difference of the average, their standard deviations and a number of selections when planing above 60% should include at least 40 selections for each concentration.

At the same time, it was demonstrated, that during measurements the parameters of GDV-grams vary under the influence of electromagnetic field (EMF) on liquid. This can be interpreted as the change of liquid properties under the influence of impulse EMF. These changes are statistically important. For instance, form coefficient  $F$  of distilled water grows from 1.32 at the first measurement up to 1.42 at the fifth measurement with the standard deviation of 1%. After the 7-8<sup>th</sup> measurement the tendency of  $F$  to grow up is preserved. However, the standard deviation sharply increases up to 3-4%. For the salt solutions the influence of the measuring process is stronger: after 7-8 measurements the standard deviation grows from 3-4% up to 10-12%.

Despite statistically important differences between GDV-grams of liquid and their 5-time ionized analogies (under ionization we presuppose the EMF influence when measuring liquids), the intervals of difference are lower than the standard deviations from the average values. Thus, a 5-time shooting of one drop is reasonable. With higher ionization the intervals of difference increase and, in some cases, can come close to the standard deviations of the given solutions.

A large number of selections for the statistic analysis can be obtained with successive measurements of one and the same liquid. A selection of 40 values can contain data of 8 successive measurements 5 shootings each.

Concentrations of 0,0001 g-equiv/l should be used only with non-ionized drops, as starting with this value the standard deviations of solutions are similar to the standard deviations of distilled water and intervals of difference.

On the other side, analogous data enable application of the GDV technique for the registration of the EMF influence on liquids, taking into account the influence of the measuring process itself.

Statistically important differences between GDV-grams of distilled water and salt solutions: NaCl, KCl, NaNO<sub>3</sub>, KNO<sub>3</sub> even with a small number of selections with sensitivity 1 and concentration up to  $1 \cdot 10^{-6}$  g-equiv/l were revealed.

#### **Fingers of relatively healthy and sick patients**

Scientific background and objectivity of any method are connected with the studied object, natural laws (5). Today the integral energy homeokinesis is treated from the point of electric and energy-informational processes of interaction. Electrical processes in bio-objects were studied primarily. The first ion concept of biopotentials origin was proposed by Dr.Chagovez, a prominent Russian physiologist. He concentrated on the close connection of metabolic processes with electrogenesis in the organism (2) The concept of subtle photon emission of biological systems, a single field theory, was found by Gurvich A.G., who studied mytogenetic radiation of plant cells (7). The role of gas discharge emission in the organism functional state management was proved (1, 7). Years of studying clinic informativity of GDV technique revealed variability of a GDV-gram within 24 hours both among sick and healthy people, which is conditioned by the high sensitivity of the technique to the altered states of the tested subjects under the influence of diverse factors (anxiousness, overtension, food, medicine, physical loading and etc.).

Taking into account the requirements to the human state investigation - high reproducibility of results - it was essential to study the recurrence of values of the GDV-gram parameters. For that practically healthy people and asthmatic patients were tested dynamically.

Using the "GDV Camera" device we tested 38 healthy people and 20 asthmatic patients with a 10-minute interval, 20 practically healthy and 20 asthmatic patients with a day interval and 22 sick people within a day: at 9 a.m., 1, 5, 9 p.m. and 9 a.m. next day. GDV-graphy was

preceded by the psychological test according to Lusher (6), applying special Software which enabled to reveal factors of varied color choice and instability in the values of the vegetative index at the first, repeated analysis and their average values. Psychological test according to Lusher (6) was applied both for the investigation of the influence of altered mental states on the change of GDV characteristics and as distracting means, allowing maximum standardization of the mental state at the first and repeated measurements. Taking into account the rhythmical character of all the processes of human activity and considerable role of ventilation obstructions in the functional status of asthmatic patients, 22 patients were examined on the pick speed of exhalation by the pickflowmetry method. The measurements were taken practically synchronically with the GDV-grams registration: at 9 a.m., 1, 5, 9 p.m. and 9 a.m. next day.

The experiments at the definite time, avoiding occasional tension (mental, physical, food and etc.) revealed, that among the healthy people the average daily and 10-minute oscillation amplitude of GDV-parameters constituted 4.1% and 6.6%. Among the asthmatic patients - 8.6% and 7.7% correspondingly. Both among the healthy and asthmatic patients there were persons with marked liability of mental status and vegetative instability. Their GDV-grams had the strongest variations - up to 18% (relatively to the average daily value). The data represented in the table 1 and above revealed correlations of GDV gram values with the mental and vegetative status and the principle parameters of gemodynamics, regulated by the vegetative nervous system (1,9). It allows recommendation of a synchronic dynamic investigation of the vegetative index among the patients with a marked variability of the GDV-gram parameters.

**Table 1.** Testing according to Lusher among the healthy people and asthmatic patients with marked changes of GDV-grams in dynamics with the 10-minute interval registration.

| Indices of testing according to Lusher                        | Change of area<br>>10%<br>n=4 | change of area<br><10% n=25 |
|---|-------------------------------|-----------------------------|
| Factor of choice variability with a repeated testing $p<0.05$ | 23%                           | 15%                         |
| Vegetative index at the primary testing $p<0.05$              | 0.375                         | - 0.113                     |
| Vegetative index at the repeated testing $p<0.05$             | - 0.353                       | - 0.027                     |
| Average indices $p<0.05$                                      | - 0.371                       | - 0.062                     |

The frequency range of the pick exhalation speed among the examined asthmatic patients constituted 27% of the average daily value. According to the literary data, the normal deviations of the values of bronchi capacity for a definite period among the sick is considerably higher than among healthy people and goes over 20% (8).

Taking into account the system character of electrogenesis mechanisms in the organism, the synchronicity and connections of changes of various bio-electrical characteristics (interval periods RR and PQ ECG, of the EEG type and GDV-gram parameters) (9), its appropriate to represent literary data on variability of parameters of the most thoroughly studied method of estimation of electrical activity - ECG. Thus, the pulse frequency of sinusoid rhythm of a healthy person depending on the physical loading is about 33 - 180 strokes per minute (3). It was revealed that the variability of pulse among healthy children according to the data of ECG holter monitoring is a sum parameter of the level of extra cardiac vegetative influences on the Heart and functional state of the sinusoid knot. Thus, both literary sources and results of the investigations prove importance of the vegetative nervous system in the mechanisms of the system regulation of human energy-informational and functional activity.

We have come to the conclusion on the good reproducibility of the GDV-gram parameters among the majority of the tested healthy people and asthmatic patients (85% of cases). The marked variability of the GDV-gram parameters both among the healthy and asthmatic

patients was connected with vegetative unstableness of the tested. Considering high sensitivity of the technique to the altered mental states of patients, we recommend to follow the rules:

1. a patients should be examined in the morning before breakfast, medicines excluded;
2. dynamic registration of GDV-grams should be carried out with a constant doctor in one room with constant optimal temperature, humidity, air gas content;
3. psychological and physical comfort is essential. Occasional tension should be avoided (mental, physical, smoking, alcohol and etc.);
4. the device should be tested regularly using the calibration object.

Estimating people in a stable psychophysiological state, the GDV-gram parameters are reproduced with the 5-15% precision.

## **STUDY OF HUMAN PSYCHICAL ENERGY BY GAS DISCHARGING VISUALIZATION METHOD**

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Method of gas-discharging visualization is becoming more and more popular and not only here in Russia but as well as abroad. The scientists have showed that a physical condition as well as psychical condition is reflected in the picture of the human's fingers' radiation taken in the gas discharge. In the previous studies we have showed that the human's aura has been greatly influenced by the thought. The picture of gas-discharging visualization (GDV) radiation is being changed in accordance with the thought's quality, i.e. the aura's square of luminescence, its brightness and evenness.

The purpose of the present work is studying of the human's psychical energy reflecting in the psycho-emotional component of the aura. The investigations have been carried out with the help of software-apparatus complex 'Korona-TV'.

Academician V. Bekhterev has considered that 'The world process is a manifestation of the equal world energy, and where and in what forms the latter would manifest itself, it manifests everywhere around by the same correlations and is undergone the same dependences or laws'.

'The mankind is accumulator and transmutator of the high energy which we decided to call psychical', is written in Study of Alive Ethics. It is said in the letters of E. Roerich, 'The psychical energy is such an energy that imprints images at the plastic cosmic substance... Psychical energy is love and aspiration. Psychical energy is a synthesis of all nervous radiation...'.

One of the main questions standing before the investigators today is what is prevailing in the picture of the kirlian radiation, is that physical or psychical compound? To our mind it is the condition and quality of the human psychical energy. Thus, the aura of the young, full of power and not complaining to the health people, could have small square of luminescence, high fractation, unevenness and could be in the state of ruptures. As for the aura of some elderly people leading the creative soul life, it is bright, tense, full and even inspite of physical indisposition.

The beneficial influence of the real art masterpieces such as the Roerich's pictures and classical music to the aura is noticed.

It is found the positive ascendancy of such life brining carriers as valerian, musk and soda over the psychical energy condition: activation of nervous centres is taking place, the aura becomes brighter and more even, the square of luminescence is getting bigger.

It is shown the possibility of changing the aura due to conscious management of the own energy of the people who does not possess the extrasensory capabilities.

The analysis of the carried out investigations (more than 200 people under test) has showed that the factors, leading to the tension of the psychical energy and enforcing it, such as the feeling of joy, love, providing help to the close people, thoughts about Supreme, beautiful masterpieces of art, valerian, musk and soda produce influence on the human aura rising its luminescence, brightness and evenness. And vice versa. Everything that depresses the psychical energy like irritation, worries, concentration on unpleasant events or people causes worsening of the aura reducing the square of luminescence, brightness and rising fractation and the state of ruptures.

Thus, it is possible to judge about the condition and quality of the human's psychical energy according to gas discharging visualization radiation of the arms' fingers.

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## HEALTH EVALUATION BASED ON GDV PARAMETERS

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Contemporary medicine focuses mainly on treatment. At the same time it's obviously easier to deal with organism dysfunction revealed in an early stage than with chronic disease. Here we encounter an important problem of control and maintenance of working capacity of a relatively healthy person, a child's state during dynamic growth, and the sick during remission. Therefore, the search for easy, cheap methods and criterion of objective evaluation of health, both of relatively healthy people (RHP) and sick patients, seems highly necessary.

The experiments on large RHP groups in various countries revealed that the distribution of  $S_{\text{integer}}$  parameter calculated in the "GDV Diagram" program follows quasi-Gauss law. This parameter is represented as a logarithm of area of GDV-grams of fingers, normalized according to the area of the inner oval, and GDV-grams of fingers of an average healthy person. The parameter  $S_{\text{integer}}$  is calculated as a sum of coefficients for each finger of the right and left hand separately. Thus, this parameter does not depend on the sector divisions of GDV-grams, is defined only by the total area, and represents the deviation of GDV-gram values from the "ideal" state.

Fig.1 demonstrates distribution of the  $S_{\text{integer}}$  of the left hand for the RHP group of 70 people. Their GDV-grams were taken within a day, May 2000, with the prophylactic examination. The curve is asymmetric relative to zero due to the specificity of the logarithm function. Therefore, positive and negative values should be considered separately. The statistic analysis demonstrates that the selections of data (fig.1) are taken from the aggregate with normal distribution. The average value (-0.65) is close to the median (-0.59). The median is located approximately in between 25 and 75 percentile (-0.86 and -0.26 correspondingly). Moreover, 96% of the values are concentrated within two standard deviations from the average and 77% of the values are concentrated within one standard deviation from the average.

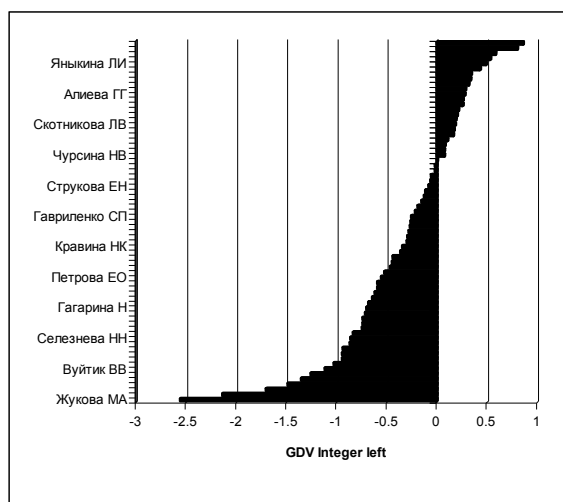


Fig.1. Distribution of  $S_{\text{integer}}$  parameter of the left hand (abscissa axis) for the RHP group of 70 people.

The frameworks of this area can be taken as the norm for the given group. Negative and positive values will be -1.19 and +0.52 correspondingly.

Based on the data of fig.1, the frequency histogram, i.e. distribution of a number of people meeting a definite  $S_{integer}$  range, can be constructed. Fig.2 demonstrates a similar histogram, based on the data of fig.1 with the additional results of examination of 42 RHP in Sweden and 23 RHP in the USA, 1999/2000. In total, 135 people were tested. This graph proves that statistic tendency is preserved: 92% of the tested RHP meet the range  $[-1.2 / +0.5]$  and 87% meet the range  $[-1.0 / +0.5]$ . Taking into account that these 135 people were selected without out knowledge of their health state and represent a stochastic selection of RHP involving people with compensated chronic or latent diseases, we can take the range  $S_{ineger} = [-.0 / +0.5]$  for the value of a relatively statistic norm of health. The deviations meeting the given range give evidence for the variations of physical and/or psychophysical states relative to the statistic norm. It's expedient to take the range from zero to average values in both directions for the parameter of "good health". It will be approximately  $[-0.6 / +0.35]$ . It is remarkable that we have chosen exactly this range, as it appears similar in various countries.

It is noteworthy, that the application of filters allows differentiation of physical and mental components of GDV-grams and their separate estimation.

The given statements can be supported by the results of analysis of GDV-diagrams of 56 people afflicted with various non-pathological diseases, who were tested in Tbilisi (fig.3). The histogram demonstrates that all the measured values concentrate in the negative area, maximum distribution shifts to the values  $-0.7 / -0.8$ . The "good health" range includes only 21 out of 56 people.

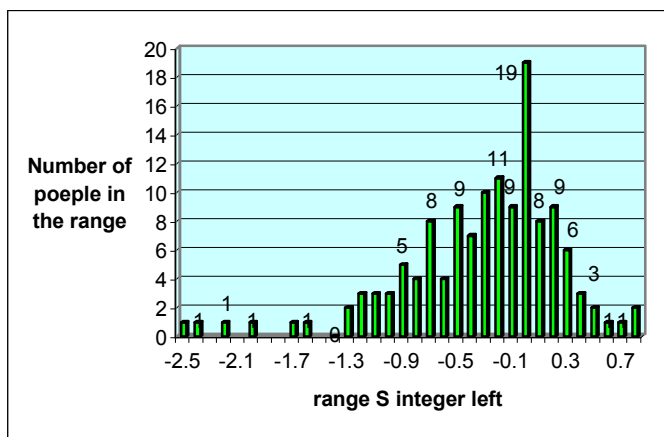


Fig.2. Histogram of distribution for the RHP group of 135 people (Russia, Sweden and the USA).

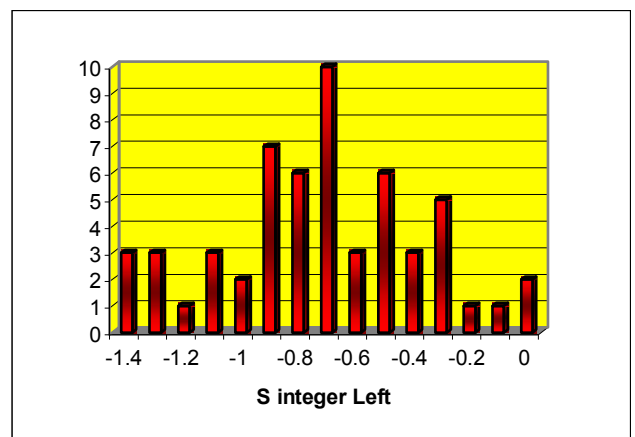


Fig.3. Histogram of distribution for the group of 56 people (Tbilisi).

To obtain data for adequate comparison the calibration of the GDV-program parameters is essential. For this the following should be done:

1. Dry up the glass surface of GDV Camera with alcohol, take 10 GDV-grams of the calibration-object.
2. Select the "Level Background" value to escape noise on the processed images.
3. Set up this value in all the GDV programs.
4. Press the "Calibration" button in the GDV Diagram program and install GDV-grams of the calibration object. When all the necessary calculations are finished, make certain that variation coefficient is not over 5-6%. Press "Quit & Save" button. In case of strong variations repeat all the operations, having dried the glass with alcohol in advance. If variations exceed 10%, contact the manufacturer.
5. If necessary, make calibration according to the point 4 using GDV-grams of a healthy person.

Each GDV Camera and Computer must be calibrated before work, then, either at least two times in 6 months or by changing the settings.

It is obvious that to confirm the absolute frameworks of the ranges a set of statistical data on RHP in various countries is necessary. We believe that the presented technique will unite the researchers interested in this trend, and we will be grateful for the results of GDV-diagram processing shared with us. Today, a computerized technique, covering the data of GDV processing, mental testing and calculations of some physiological parameters is under development.

## **GAS DISCHARGE VISUALIZATION PARAMETERS OF THE ACUPUNCTURE POINTS RELATED TO THE UTERUS IN CASE OF NORMAL PREGNANCY AND DISTURBED UTEROPLACENTAL BLOOD CIRCULATION.**

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Practically all the types of pregnancy distress are characterized by the disturbed blood circulation of the “mother – placenta – fetus” system. Recently stereo- and chrono-depending mechanisms of the disturbed uteroplacental haemodynamics in case of a threatened abortion have been discovered. Evident disturbances of the uteroplacental circulation in the early stages of pregnancy end up with a spontaneous abortion in 45% of cases (Jaffe R. et.al., 1995). Disturbances in the uteroplacental circulation in the II trimester are mainly connected with intrauterine growth retardation, premature birth (Harrington K. et.al., 1997). The development of pregnancy failure together with haemodynamical dysfunctions is followed with the alteration of properties of the acupuncture points related to the uterus. These changes are fixed when analyzing monopolar GDV (V.S.Gimbut et. Al. 1999).

The goal of the given reserch was to study the gas discharge visualization (GDV) parameters of the acupuncture points related to the uterus during disturbed uteroplacental blood circulation.

During the research 67 pregnant in the I – II trimesters with deviations from the normative values of uteroplacental and/or fetoplacental haemodynamics were examined. The same group involved patients with the symptoms of pregnancy failure, early hestosis, intrauterine growth retardation with the found disturbances of blood circulation. 18 patients in the I – II trimesters with physiological pregnancy and regular values of blood circulation in the uterine artery and umbilical cord constituted a control group.

Important indices of blood circulation were estimated: systolo-diastole relation, pulse index and etc. By the gas discharge visualization technique the misbalance coefficient in the uterine sector on the right (MCd) and left (MCs) hands was calculated using the method, developed at the Rostov SRI of Obstetrics and Pediatrics.

The values of systolo-diastole relation among the pregnant with the disturbed uteroplacental blood circulation in the I trimester revealed no reliable difference between the right and left uterine artery. However, these values were higher, compared to the control group ( $p < 0,05$ ). MC values were reliably higher in the group with the disturbed blood circulation. Normal pregnancy in the I trimester was characterized by the extremely low MC values on both hands.

|  |              |                |      |      |
|--|--------------|----------------|------|------|
|  | Vs/Vd Dexter | Vs/Vd Sinister | MC d | MC s |
|--|--------------|----------------|------|------|



|                               |           |           |           |           |
|-------------------------------|-----------|-----------|-----------|-----------|
| I trimester Control           | 2,00±0,10 | 2,19±0,12 | 0,27±0,08 | 0,09±0,06 |
| Blood circulation disturbance | 2,95±0,47 | 3,29±0,7  | 1,24±0,33 | 0,92±0,35 |
| II trimester Control          | 1,69±0,12 | 1,79±0,11 | 0,11±0,06 | 0,12±0,06 |
| Blood circulation disturbance | 1,93±0,18 | 1,87±0,16 | 1,01±0,17 | 0,41±0,17 |

In the II trimester high variability of the blood circulation values in all the groups was found. The values of systolo-diastole relation of the uterine arteries were higher in the group with the disturbed blood circulation. GDV-graphy in the group with the disturbed blood circulation also revealed a considerable growth of MC values, compared to the control group ( $p<0,05$ ) (Table). The data of the correlation analysis revealed proportionality of the disturbed blood circulation degree and GDV parametric values of misbalance.

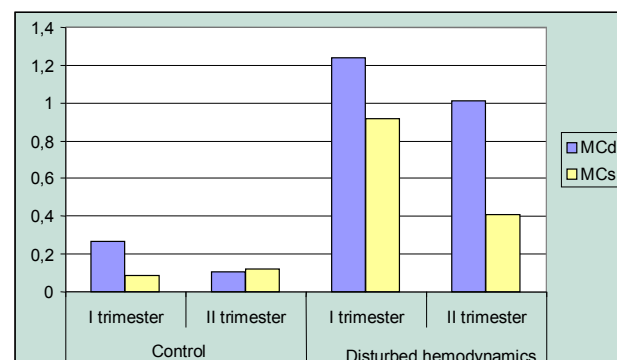
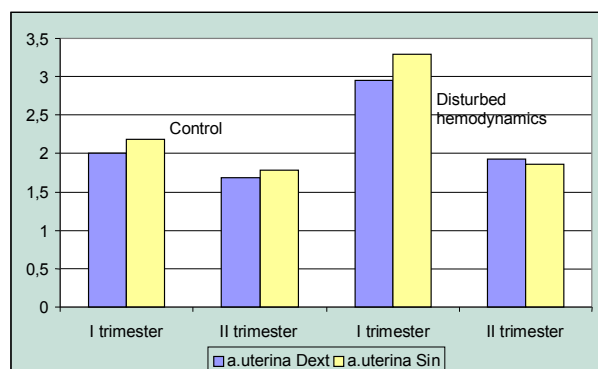


Fig.1. Blood circulation in case of normal pregnancy and pregnancy complication.

Fig.2. GDV parameters in case of normal pregnancy and pregnancy complication.

Thus, for the first time, when comparing GDV parameters and blood circulation in the uterine arteries, a reliable difference of the blood circulation values and GDV in case of regular pregnancy and pregnancy complication both in the first and second trimesters were revealed.

Regular pregnancy with the undisturbed uteroplacental blood circulation is characterized by extremely low values of GDV parameters. With the disturbed uteroplacental blood circulation, connected with pregnancy failure or other types of pregnancy distress and diagnosed by dopplerometry – a reliable increase of the misbalance coefficient of the acupuncture points related to the uterus is revealed on both hands (fig.1, 2). It seems expedient to use this fact in diagnosis of early pathological pregnancy distress.

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## RESULTS OF CLINICAL AND GEOGRAPHICAL RESEARCHES IN ONCOLOGY

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There are clinical and geographical researches at 871 patients in this work. From them practically healthy group is consisted from 291 patient and 580 patient are with oncological pathology.

Analysis of degree of similarity of standard oncological research with geography gives us the sensitivity of geography for diagnosis of pathology about 855%. In-group of healthy patients was about 50% false results. No specificity on oncology was obtained. Our results show that on this stage geography isn't effective for screening of oncological patients.

## **HETEROGENOUS RESPONSES IN FINGER TIP MICROCIRCULATION**

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The aim of present experiment was to clarify, if the microcirculation varies in different sites on volar surface of distal phalanx of finger in a psychophysiological test.

Eight volunteer adult subjects who claimed themselves as hand mediated healers were examined with noninvasive and painless methods. After cleansing the skin of the volar surface of distal phalanx of left middle finger it was covered by a thin dielectric film. The low electrical resistance points were visualized by using negative and positive air plasma (generator: ACU Vision-04, Coloyaro 2000 Ltd., Moscow, Russia). The electroluminescent points were marked with pencil on skin. The microcirculation of the fingertip was recorded in four points of luminescence and one control point in the non-luminescent area in the middle of the pad using ultrasound Doppler with working tip Ø 1.5 mm and frequency of 20 MHz (Minimax-Doppler-K, Minimax Ltd., St. Petersburg, Russia). The responses to electromagnetic field impulses (1000 Hz, 8kV, 20 msec impulse duration) were tested by analyzing the gas discharge pattern (GD-image) around the right middle fingertip (CrownTV, Kirlionics International Ltd., St. Petersburg, Russia) before and during pseudohealing test. The areas of these images were calculated (background 255, removing fragments up to 10 pixel). After that the blood microcirculation was recorded in same points as at beginning of the experiment.

During visualization cyclically luminescing spots (diameter ~ 1mm) like an oval chain of beads were seen in the volar rim of the distal finger phalanx. The response of points to negative or positive air plasma administration and the level of their luminescence varied. No luminescing spots were detected in central pad area, where the control microcirculation was also recorded. Among volunteers studied there were different responses to electromagnetic field impulses, but a decreasing trend of GD response during pseudohealing test prevailed. Energy emissions in GD was frequently registered during the task. The blood microcirculation of the pad center showed a small increase after the task and clearly more marked increase was registered in active luminescing spots in the volar rim of the distal phalanx. In conclusion: the microcirculation and its variation at the luminescing spots in the volar rim of fingertip have not been previously reported. It appears that people can with their will modify there their circulatory and emissive responses during a psychophysiological test.

## **BIOELECTROGRAPHY AS A METHOD OF COMPLEX DIAGNOSIS OF FUNCTIONAL STATE OF AN ORGANISM**

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In the present-day situation of the general aggravation of the environmental ecology, aggressive chemical including drug intoxication of the population, increase of social stresses the role of health-improvement, disease-preventive medicine and noninvasive methods of diagnosis has become more significant.

We have elaborated a new modification of the method of bioelectrography (BEG) and a diagnostic device based on the Kirlian's effect, which have been patented (by Ignatiev N.K. in 2000). Our method is the development of the Mandel's method, it allows to estimate in accordance with a 10-point scale the energetic and psychoemotional status of an organism, func-

tional state of the main organs and systems, and also the extent of autointoxication by analysis of the radiation crown defects on the bioelectrograms of patient's fingers and toes.

Scientific and clinical test of the BEG method and the device at the clinic of the Scientific Research Institute of Clinical and Experimental Lymphology of the Siberian Branch of the Russian Academy of Medical Sciences demonstrated their high effectiveness. At carrying out by double-blind method the screening examination of 100 verified patients with various pathologies the sensibility of the method amounted to 92%.

The estimation of psychoemotional status of an organism by the BEG method was confirmed in 80% of cases by the data obtained from the test of inversion of emotional reflection (Leutin V.P., Nikolaeva E.I., 1988).

Decrease in energetic status revealed by the BEG method coincides in most cases with asthenic syndrome.

Examination of patients with autointoxication of various etiologies (diseases of the lymphatic system, of the digestive tract organs, etc) showed possibility to reveal and estimate the state of autointoxication by existence of markers - toxic spots of various kinds on bioelectrograms.

Analysis of the data obtained from experimental examination of 130 patients in conditions of a polyclinic has proved that the BEG method allows to reveal and estimate early before-clinical changes as well as hidden pathologic processes, which manifest themselves clinically later (with the period of observation from 1 month to 2 years) and are confirmed by laboratory and functional methods of research (cardiovascular pathology, diseases of endocrine, digestive, uro-genital systems and others).

The obtained results testify that BEG is an effective method of complex diagnosis of functional state of an organism. Application of this method gives a chance to correctly choose strategy and tactics of rehabilitation in consideration of the individual state of health. Effectiveness of this approach has been proved by practice of health-improvement of hundreds of patients.

## **DYNAMIC MODEL OF WAVE-CORPUSCLE DUALITY AND HYPOTHESIS OF INFORMATIONAL REPLICA OF LIVING ORGANISMS**

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The hypothesis of informational replica, generated by the internal water in form of mesoscopic Bose condensate (coherent clusters) in microtubules of cells, modulated by nerve activity, is proposed. It is based on Dynamic model of wave-corpuscle duality, elaborated by the author, considering the ability of particles to excite different kinds of virtual standing waves in vacuum.

Our Dynamic model of wave-particle duality is devoted to analysis of the internal (hidden) parameters of elementary de Broglie waves (waves B) and their interrelation with external, observable ones. Dynamic model is based on assumption of alternative pulsation of sub-elementary particles, between the corpuscular [C] and wave [W] phase, each of them representing corresponding semiperiod of wave B. The triplets of sub-elementary particles form the elementary particles. The energy and impulse of two sub-elementary particles compensate each other. The resulting properties of each triplet: mass, spin, charge is determined by uncompensated sub-elementary particle.

The model considers the positive and negative vacuum as two 'oceans' of superfluid quantum liquid, composed from virtual quanta of opposite energies. This interacting positive and negative vacuum, termed BI-VACUUM, is an infinitive source of bi-vacuum bosons

(BVB). The spatial image of BVB is a pair of [rotor + antirotor] of opposite direction of rotation in the energetic planes of positive and negative vacuum with discrete values of radii, close to Compton radius of the electron, muon or tau-electron, depending on the resonant energetic slit value of bi-vacuum. The minimum dimensions of BVB with function of bi-vacuum "molecules" may have the order of Planck's length or even less. The nonlocal properties of BVB are the consequence of their zero resulting impulse, responsible for their infinite virtual wave B length and corresponding scale of PRIMORDIAL bi-vacuum Bose condensation. In SECONDARY vacuum, with symmetry, perturbed by presence of matter, the impulse of BVB becomes non zero. As a result, the infinite virtual Bose condensate 'dissociate' to huge superfluid bi-vacuum domains. The gradient of difference of concentration of rotors and antirotors with opposite direction of rotation (virtual spin equilibrium shift), originated under the influence of rotating atoms, molecules or macroscopic bodies - is responsible for TORSION field.

The transmission of signal in form of energetic slit oscillation of bi-vacuum, representing the vacuum amplitude waves (VAW) without mentioned above equilibrium shift in the membrane of bi-vacuum Bose condensate is instant. It is not related with energy-impulse propagation.

The Corpuscular and Wave phase of particles are considered in our model as two alternative phase of wave B, which are in dynamic equilibrium. The wave [W]- PHASE in form of cumulative virtual cloud (CVC) originates as a result of quantum beats between real and mirror states of corpuscular [C] phase of sub-elementary particles, composing elementary particles. It is shown that CVC has a spatial image of half of parted (two-cavity) hyperboloid. This half is in realm of positive or negative vacuum for sub-particles and sub-antiparticles, correspondingly. The CVC is composed from virtual density waves (VDW), responsible for electric component of resulting electromagnetic charge and from virtual symmetry waves (VSW), related to magnetic component of resulting charge. The product of two components is equal to resulting charge squared.

The VAW interference with standing VDW and VSW (scalar waves) excited by symmetric pairs of sub-particles and sub-antiparticles may be responsible for Informational field origination.

It leads from equations obtained that small part of CVC energy determined by fine structure constant is responsible for electromagnetism and even much smaller part of CVC - for gravitation. The restoration of [C]-PHASE in form of [real+mirror] mass-dipole is a result of binding of CVC to BVB, accompanied by excitation of BVB. The spatial image of sub-particle in [C]-phase is a correlated pair [mirror rotor + real vortex]. The energies of both phase [C] and [W] are equal.

Propagation of elementary particle in bi-vacuum is a jump-way process (it may be termed 'KANGAROO EFFECT'), because the 'free' CVC, corresponding to [W] phase of particle is luminal in contrast to [C] phase - when CVC is in elastic contact with BVB. The frequency of [C-W] pulsation is equal to frequency of quantum beats between real and mirror corpuscular states. For the case of photon this frequency is equal its energy, divided to Planck constant ( $\nu=E/h$ ).

Our theory predicts that the measured effective velocity of bosons, like photons, with symmetric [C-W] pulsation of sub-elementary particles, composing them should oscillate with frequency of such pulsation due to KANGAROO EFFECT. Such theory consequence can be verified experimentally.

Our dynamic duality model elucidates the quantum background of non-locality, principle of least action and Golden mean, unifies the quantum mechanics with electromagnetism, gravitation and relativist theory.

Tending of open systems to conditions of Golden mean is supposed to be a driving force of their self-organization. It is shown also that the pace of time - changes with opposite sign with pace of kinetic energy for each selected closed system. It leads from formulae ob-

tained, that pace of time is interrelated with electromagnetic (EM) and gravitational (GR) energy change. The notions of TEMPORAL waves and field related to EM and GR ones has been introduced. Our approach serves as a key to Superunification.

In any living organism: from microbe to elephant the more ordered quasi-crystalline and sensitive structure - is a fraction of internal water in hollow core of MTs with diameter of about 140Å. The bigger is number of MTs of coherently tuned cells, the bigger is fraction of ordered water, very sensitive to nerve excitation. The spatial and dynamic properties of MTs and the internal water structure follow the Golden mean rule. New Hierarchic model of consciousness, based on piezoelectric properties of MTs, their [assembly-disassembly] equilibrium, leading to modulation of mesoscopic Bose condensation of internal water, has been proposed. [Abstracts and New articles].

The fraction of virtual waves (VAW, VDW and VSW), excited by ordered water in MTs and its modulation, may be responsible, for special virtual Informational field [IF]. Such field characterizes the individuality as a product of head, spine brain and peripheral nerve system activity. In some cases, when corresponding [IF] forms a complex system of virtual standing waves with properties, close to conditions of Hidden harmony and Golden mean, the [IF] may remain stable even after the real source (living organism) becomes destroyed or dead. The Hidden harmony conditions mean the equality of important internal and external parameters: the internal (hidden) and external group velocities; the internal (hidden) and external phase velocities. This hypothesis based on our theory, points to possibility of existence of 'SOUL'. Some of corresponding systems of such virtual Informational Replica of living organism really may be more or less stable, depending on their properties as a system of standing waves.

During the life of animal, plant or human being, the direct and back reaction should exist between 'soul' and organism, generating this soul. This interaction may have a character of quantum beats. If so, the important contribution to consciousness or mind is related to acts of interaction between brain and 'soul'. Each individual soul is formed by interference of nonlocal Vacuum Amplitude Waves (VAW) with standing vacuum density and vacuum symmetry waves (VDW and VSW) of the all nerve cells of living organism. The nonlocal character of each individual soul makes it possible their interaction and even unification. This phenomenon may be responsible for telepathy and mind-matter interaction.

The idea of collective informational soul is close to idea of NOOSPHERE, proposed by Vernadsky in Russia at the beginning of this century. If we make one more step ahead, we can suppose that unification of all souls of human beings, animals, plants of all planets with different forms of life over the Universe may form virtual dynamic Super Consciousness. Due to mentioned above feedback reaction, the evolving of Super-Consciousness is dependent on evolution of the intelligent part of biosphere of the Universe and vice versa.

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## **GALAXIES OF LIFE**

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It was the name of the book published many years ago, one of the first books dedicated to Kirlian photography. And from those pages on, written generally by American investigators, my long journey to a world of enigmatic flickering glow, a world of carried away explorers from all over the Earth, a world of magicians in neck-ties, ghosts and phantoms started. Have we succeeded in these 25 years in exploring of "what is actually glowing there"? In our modern interpretation we are moving step by step, level by level, describing one or another distinction of an enigmatic and alluring Kirlian effect.

### **1. Physical approach.**

Depending on the conditions, some few forms of discharge may be observed, of which the avalanche discharge in narrow gap, bounded by dielectric, and the avalanche stage of sliding along dielectric discharge are used for Kirlian effect. The character of unit discharge does not practically depend upon the type of voltage applied, however impulse frequency is determined by the rate of voltage rise. The physical processes are well described.

### **2. Bio-physiological approach.**

Leaf plate or skin may be regarded as a multilayer capacitor. Applying to it a short voltage impulse, a recharge of this capacitor takes place and current impulse, which parameters depend upon the object's characteristics, is developed. At the same time, organic molecules' evaporation at the expense of respiration takes place, which brings to forming a specific gas atmosphere over the object's surface, even in the absence of perspiration or secretion of juice or sweet. The characteristics of gas discharge depend critically upon the presence of admixes in the gas, therefore this factor contributes significantly to the glow parameters. And, finally, by its capacity the object is connected to an electrical network of the so-called connected LC-contours. When changing the object's characteristics, redistribution of currents in the connected LC-contours occurs, which has an influence upon the glow parameters.

### **3. Psycho-physiological approach**

The connection of the blood supply, temperature and local electroconductivity of fingers with the parameters of psychophysical functioning at the expense of autonomic nervous system and mind-body correlation on the level of autonomic and central nervous system, endocrine, immune systems. The relation right-left is considered to be of special importance.

### **4. Entropy-informational approach.**

A biological organism is evaluated as an open dissipative system, interchanging energy and information with the environment. Information is considered as one of the main terms of the biological organism existence as well as energy. According to the meaning of information for the subject it initiates inner energy processes of the organism itself.

For the biological objects the spectrum of the emitted information and the character of its transformation is considerably wider: there can be not only electromagnetic and sound oscillations within the entire spectrum, but also material objects. For example, the scent of exotic perfume (a group of organic material molecules) has no effect on one person, but it will evoke a flush of memories from the faraway childhood in another one.

Thus, to describe the informational interrelation of biological objects (BO) all the methods of the classical theory of information with the derivation of quantitative criteria can be applied. Information may be expressed via entropies of communicating processes, and entropy may be calculated from the parameters of a system. On the basis of these rules a set of specific positive reactions has been demonstrated: laser irradiation, magnetic field, Ultra-High Frequency fields, air-ions, impulse currents. These treatments now are part of Complementary Medicine and their effectiveness may be demonstrated by Kirlian effect.

Taking into account the synergetic concepts, the probability theory and information theory the BEO-grams can be considered as the presentation of the organism entropy exchange with the environment and other organisms (remote inter-personal influence).

### **5. The approach from the point of Chinese Medicine and Ayurvedic Medicine.**

The concept of the meridian system, acu-points and active centers (chakras), energy (entropy) circulation along the meridians of the body and entropy exchange with the environment. The application of the well-known concepts on the connection of the circulating energy with the health state and psychological parameters provides opportunity for the diagnosis.

### **6. Field approach.**

The conception of the biological field, proposed by A. Gurvich, has been intensively developed in the works by Sheldrake and grew into the concepts of field holographic structures. At the same time the collected in various countries experimental data on informational influence of BO on the processes of the material world and other BO allows developing the

scientifically substantiated conceptions of the mechanisms of these processes on the level of the fields and quantum processes interaction. The idea of coherence of the organism's electromagnetic field is being actively developed in modern biophysics. We have brought forward the conception that the acupoints represent a projection of wave quantum fields on the skin surface.

## **7. Metaphysical approach.**

In the contrast to the Newtonian-Cartesian model, the human being is accepted as a single triple manifestation. Physical Matter + Energy ↔ Information ↔ Spirit. In other terms: Body ↔ (Consciousness, Mind, Emotions, Soul) ↔ Spirit. In this model all three components are inseparable, they depend on each other and influence each other. It's impossible to study the physical processes of the body without considering mental processes. The assumption on the human being as a physical-chemical mechanism, dominating from the XVII century resulted in the low effectiveness of contemporary medicine, tremendous expenses for the treatment of complex chronic diseases.

In the developing conception we distinguish the levels of the personality → groups (families) → community (society) → Humankind. On each of these levels one can speak of the triple manifestation, individual and public Consciousness, Soul, Spirit, in other words: Family, Nation and Humankind Informational Field. This approach is especially valid when considering the states of children, as their energy-information field is utterly determined by the environmental influences.

### **Summary**

So, what is the purpose for studying all these levels? What relation do they have to Kirlian glow, and what can this glow add to the investigation of these levels?

Hierarchy system is based on the following principle: every subsequent level is based on all the preceding ones and can not exist without the posterior levels. Thus, these are some kind of stages, levels, according to which the development and complicating of forms of substance existence have taken place, from stagnant physical structures, infinite in their diversity, to the more sophisticated forms of biological life.

And in this very hierarchy we notice the transition from material forms of life to the field, informational ones. Therefore, when speaking of metaphysical levels, we introduce into consideration the next phase of reality, being nonmaterial, but based upon several forms of substance existence. It is the level of super-physical, the level of ideal, the level of the Soul and the Spirit. It is the highest stage in our hierarchy, and at the same time it is the basis of everything. Thus, it turns out that this level is founded on all the previous levels and, what is more, it is their basis. In the course of the Spirit development, It reached a certain stage of self-actualisation and represented one of its eternal essences in the form of the Matter. The Matter, in the process of self-development, came to creation of mind and to the moment of realisation of the Spirit. The spiral locks. Consequently, we can talk about locking of levels, about their turning into a spiral, having no end and no beginning, similar to Mobius ring. Whatever point of this ring we steppe in, we can receive the information on all the underlying and overlying levels. It is only necessary to put a question. To find the method of complex approach.

And this is Kirlian effect that made up the approach.

This is the first experimental technique, which does not investigate separate levels and steps of the Ladder of Life, but studies all the levels at once. Why does it come out so? Because, according to its very principle, Kirlian effect is a method of stimulated response. An impulse is applied – and the organism responds to it in compliance with its state. And the nature of this impulse contains the main secret of the method. What is an organism? It is a spatial-field material structure, functioning in accordance with resonance principles. Therefore, when we apply a short impulse, including a wide spectrum of frequencies on Fourier principle, we receive the response in the entire range of frequencies, i.e. on all the levels of hierarchy studied. The more complicated the system is, the higher levels of organisation take part

in this response. For non-organic systems these levels are physical, for plants – biophysical, for animals – psycho-physiological, and studying the human being we take into consideration all the levels mentioned. And who knows what other Universe Levels do the higher forms of behaviour involve!

Thus, an experimental method, giving an opportunity to obtain information on the very diverse manifestations of Life, has found itself in the hands of investigators. Naturally, today we do not understand this information in its entirety. However, the results reached in recent years do not cast doubt on the importance of the challenges offered.

The technique of computer registration and analysis of Kirlianograms – GDV-graphy – has provided stability, reproducibility and comfort. Significant practical results are obtained in diagnostics of diseases, in registration of the changed states of consciousness, reactions of bio-energetic field of the human being, animals and plants to the environmental influence. And this is only the beginning! In some years the GDV-diagnostics device will find its place on the table of every physician, every investigator of subtle informational processes. A breakthrough in the investigation of processes of Subtle World, started by the enthusiasts of the XIX century, developed in the XX century, is grasped by the young minds creating the XXI century. And this breakthrough will inevitably lead us to the new understanding of Life, to the comprehension of ourselves and our role in the Universe.

## **EXPERIENCE OF SYSTEMATIZATION OF LOW RADIATION FIELDS IN BIOENERGOPLASTIC ARTS.**

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The aim of this report is to discuss initial result of the system approach research in combination and application of the West and East esoteric practices conducted within the limits of the syllabus of the experimental School "Bioenergoplastic Arts" (body and spiritual practice of work with bioenergy).

**The subjects of the research are as follows:** The ancient esoteric runic practice (North Europe) which is a sign system consisting of 24 graphic symbols; peculiar position of hands and fingers (mudras and hastas); as the system of energetic and information interaction with a space (the West). Both subjects are considered a priori as the carriers of low radiation fields due their content and methods of application. The author has made several types of systematization:

- 1. Systematization of runes as graphic symbols:** classification of runes as graphic symbols according to their psychoemotional influence on a human organism ( as a biosystem); extraction of the runes with meet the tasks of bioenergoplastic arts best of all, as well as their correspondence to the main types of influence on bio and energetic systems of a man.

- 2. Systematization of runes as pictures used in mowing action.**

One of the aims of the research is to reveal possibilities of system influence of the runic practice combined with hastas and mudras on the psychic and emotional aspects of a man as well as during work with transformed states of consciousness. The results of the research have shown unrevealed potential opportunities of application of the system under research in bioenergoplastic arts as a method of interaction with the energoinformativ space. It allows to use them for achievement of the preset states (psychoemotional, psychophysical) in combination with various transpersonal practices. There were revealed their indisputable influence upon a man as a biosystem and opportunities of conscious control of this influence.



Only the initial results are presented. First of all they have an educational nature. A wider spectrum of researches is expected, but their prospects and broad possibility of application are clear even now.

## **A SHORT APPROACH ON CANDOMBLEH**

Newton O. Milhomens Filho, Professor

### **ORIGINS:**

Candombleh is a religion that was born in Africa and arrived to Brazil during the Portuguese colonization time, when the portuguese bring the negroes from Africa to work as slaves at the plantation fields and farms in Brazil, fom XVI to XIX centuries.

To the portuguese, all negros were the same – only negroes – and they never could imagine that the negroes lived divided into several nations and that among them there were all social class persons. Also the portuguese thought that negroes have not any kind of Religion.

Among the slaves there were priests of the common religion on all Africa – The Candombleh.

And these priests, when contacted the christian catholic fathers, and after learnt to speak Portuguese, started to compare their divinities (the orishahs) with the catholic ones (the saints, devil and God). After this comparison, they decided to mix and correlate the orishahs with the catholic divinities. This action received the name of Synchrestism.

The catholic fathers obliged the negroes to adore the catholic divinities and the negroes, missing to deceive the fathers, during the night, buried the images and other ritualistic objects of the orishahs and above this place, they built an altar and put on it an image of a catholic saint. All the nights, they danced and song around the altars and saint's images (indeed they were dancing and singing to the orishas, below the saints) and when the fathers asked them about, they said they were praying to the catholic saints by their own style and in their native idiom.

And so, the Candombleh survived safely during near 300 years, till the Independence and the liberal Brazilian Constitution that allows total freedom of belief, thought and Religion. So, the Synchretism was abandonned.

Today, in Brazil, Candombleh is no more a negro religion, but a very popular religion, with all kind of persons and ethinical groups inside.

### **DOCTRINE:**

The Candombleh doctrine says that in the beginings, only existed Olorum, the Supreme Creator of all. One day, Olorum wanted to create Universe in two patterns that were complimentary: - Matter and Energy. Olorum created too, two kinds of beings to care the Universe: 1 – The Eguns (all organic beings) to care the Matter part of the Universe and 2 – The Orishahs (Energetic or spiritual beings) to care the Energy part of the Universe. But Olorum conditioned that both, Eguns and Orishahs, will work in total harmony, with total collaboration.

There are 16 kinds of “male” Orishahs and 16 “female” Orishahs.

All the organic beings are joined with some kind of these 32 Orishahs.

The human beings are connected with 3 different Orishahs: 1 – Head Orishah 2 – Solar Plexus Orishah and 3 – A sexual Orishah (named Eshoo)

Some ancient African priests discovered a way to contact the Orishahs through the transe (or Altered State of Consciousness – A.S.C.) under certain especial rituals, mainly through the ritual dance.

Personally, my head's Orishah is Shangow, my solar plexus' one is Ogoom and my sexual Orishah is Eshoo Marabow.

Note that I am intending to show the more next of the Portuguese pronounce with this manner to write. OK?

The contact between Mankind and Orishahs is very good to each other. If you desire a help (in any case or situation) you will have to pay by the “work”. The price is the Orishah who says through the medium in whom is “incorporated”. Generally, the price is paid through an animal, a plant, finally, any kind of meal, ritualistic meal as a sacrifice, a ritual sacrifice.

By other way, the Orishahs can “speak” through the priest (Pai-de-Santo, in Portuguese or Babalorishah, in African idiom). Pai Veco (Father Veco) is a Babalorishah. When Pai Veco “read” your life through the “Jogo de Ifah” (Ifah’s Play), a ritual divinatory play with the conches, he was in A.S.C. state and he read the conchs – the Orishah “speech”- and transmitted the message for you. Did you remember?

Well, Pai Veco was gentle enough with you and did not charge any money from yours. But, normally, his price is near about US\$30.00 to each divinatory session.

#### **WHAT, PERSONALLY, I THINK ABOUT:**

After many and many years studying Candombleh and other mediunic brazilian religions, I started to suggest an hypothesis about, as follows:

1. The transe state is a hypnotical state. All the mediums were hypnotized because of the dance and the drums rythm.
2. During the A.S.C., the Archetypes, the ancientest Archetypes of Mankind, will emerge from the medium’s deep Subconscious and this is all.
3. When we study what is the dominion of an Orishah, suddenly we are able to identify what type of Archetype we have present. For example, Shangow, my head Orishah is the “King of Justice”. So, we are speaking about the Justice Archetype. Oshun is a female Orishah and she is the “Queen of Feminine Coquettich”, whose Archetype is the Feminility. Ogun is the “Lord of War”, whose Archetype is the Warrior Archetype. And so on.

During my researches, I took many and many Kirlian Photos, before the transe, during the transe and after the transe. When you were here, I shown you some of these Kirlian Photos.

By extension, after I researched during years on Spiritualism and other Brazilian Mediunic Religion, the Umbanda. In these religions, I found the same situation, but with different types of Archetypes, according to what is “channelled” during the ritualistic A.S.C.. These other religions are working with more recent Archetypes, as the Healler one, as the Heroe one, etc, the newest Archetypes that were appearing in Mankind subconscious mind during the evolutionary way of Civilization.

So, this is a short history of Candombleh and I contacted with Pai Veco and he said me that you and all the strangers will be welcome in his temple and we have to advise him some days before and he will organize a very nice ritualistic dance to give for all, the best energies that the Orishahs can furnish to each one and also he will “play conches” to whom will desire, but this time he will charge each one by the common price about US\$30.00. So, I can translate or the official translator of the Congress will do the same. I talked with him about and he agreed to help in translation.

Thus, if you will want to communicate to the swedishes, if they want to know a new kind of religion, Pai Veco is at their entire disposal.

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# EVALUATION OF ENERGY-INFORMATION PROPERTIES OF WATER FOR SEARCHING OF ZONES, OPTIMAL FOR HUMAN RESIDING

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From a history of a medicine we know, that in all times the people went on resorts, accepted water procedures and drunk mineral waters and, in most cases, their health was improved. By the purpose of the present research was the task to investigate water for an evaluation its energoinformational status, for using that water for searching of zones, optimal for human residing. It became possible thanks to using of device „GDV-Camera“, based on effect Kirlian and created by K.G. Korotkov, with additional system for obtaining the images of lighting of liquid.

The 460 researches of water with various chemical structures in different regions of Ukraine were conducted. Only one parameter was evaluated - area of lighting BEO-grammes of water (in pixels). The following average outcomes were obtained after processing:

1. town tubes water (tw. Dniepropetrovsk) - 2400 pixels;
2. town tubes water (tw. Berdyansk) - 2800;
3. water from a source (wil. Kitaygorod, Dniepropetrovskaya reg.) - 3200;
4. water from source (tw. Alushta) - 3800;
5. water from artesian slit (tw. Berdyansk) - 3800;
6. water from source (wil. Golubovka, Dniepropetrovskaya reg., where our country clinic is situated) - 4500;
7. water of Azov sea - 4800;
8. water from leman of Azov sea - 2800;
9. rain water - 1500.

The area of lighting of water, undoubtedly, depends on mineral structure of liquid, but it is impossible to exclude its energoinformational properties, cause the water of the same structure, depending from many factors, can change intensity of the gas discharges, i.e. length and branching of strimmers, brightness of lighting. So, as the results of researches are established, that the water with a high energetical potential reduces its lighting on 16-25% after placed it in geopathogenical zone during 30 minutes. After boiling or processing of water in a microwave device the area of BEO-gramme decreases from 5 up to 21 %.

If in water to put herbs and to insist them within day, than, depending on a selection of herbs and water, the area of BEO-gramme is increased from 7 up to 23 % and the shape of radiation is changing.

If the same herbs are filled up by boiling water and also are insisted within day, the area BEO-gramme is increased just on 3-5 %.

One more interesting legitimacy is revealed: the water of the same mineral structure changes parameters of the area of lighting depending from zone, where it is placed. The town-tube water from Dniepropetrovsk (reference value - 2400) has increased the area BEO-gramme on the average up to 3000 on the second day in Golubovka, and at the third day - up to 3500.

These data have allowed creating water marker "ОМІ-1", which has constant physical parameters and chemical structure. The interesting data are obtained as the results of researches conducted with it. For example, the area of lighting of that marker in Dniepropetrovsk - 3500, and the same solution in day in Kitaygorod - 4800 (shape of a drop is changed also).

After placed marker in pathogenical or optimal zone the precise legitimacy is traced: in 30 minutes the significant change of the area of lighting (up to 16 %) happens, then lighting continues to be changed within three day (16-21 %), and then remains constant.

Let's recollect Agny Joga: „...You were able to observe that psychic energy can magnetize water, and that waters containing iron or lithium are very easily magnetized. One can also observe how water is gradually demagnetized in proportion to the decrease of psychic energy. This can be done with all objects, and it is not magic, but a scientific process“.(Supermundane,334).

#### **Conclusions:**

1. It is possible to investigate water for an evaluation of its energoinformatical status, using created by K.G. Korotkov device "GDV-Camera" with additional system for obtaining the images of liquid lighting.
2. The marker, created by us, "ОМН-1" well react on changes of energy-space of the Earth and allows authentically revealing both anomalous and optimal zones.
3. The obtained data enable to reveal zones most favorable for human residing and to create herb-solutions for treatment.
4. Agny Joga allows to predict scientific development in the field of psychic energy.

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## **TREATMENT BY THE PLANT ENERGY OF CHRONAL GENERATORS WITH WOOD SPECIES SELECTED BY BEO-TOMOGRAPHY.**

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“Living, speaking by physics language,  
is the energy transmission of the energy  
flow through the human body”

A.L. Chizhevsky

The flora and fauna of the Earth planet constitute the integral system - Biosphere and one of its system forming elements is a human being as a biological species among other beings. Unfortunately, moving on the way of scientific and technical progress, the modern humanity develops technical sphere in prejudice of biosphere and gives rise to disharmony of spheres, that is manifested in growing ecological crisis and has an effect on the health of the human being. Conditions of artificial environment isolate the body of the human being from ecological niche that is nature. Deficiency of the natural energetic fields is raised by the shielding effect of the civil buildings and industrial structures, comprised of reinforced concrete as well of the effect of technical emission from domestic and industrial installations, clothes made of artificial materials etc. and it destructively reflects on the energy-information field or aura of the human body, giving rise to various diseases. It is well known, that if the growing organism is placed into electromagnetic radiation proof case it will be perished. Thus, every living organism virtually needs energetic natural fields, as primordially it was formed under conditions of Biosphere and it can not survive valuably for a long time under other conditions

Methods of healing by the plant energy since old days used by the folk medicine. In the book of V.Ph.Yakovlev "Sence of aura" (1996) most completely described the techniques of healthy donorship of plants and those foreseen sensations that arise in the human being at energetical interaction with the plant. The sence of the procedure is in establishment of the energetic contact with the plant and forming with it the common energetic circuit. For the purpose it is needed to find a good healthy tree and define by biolocation method or by arising per-

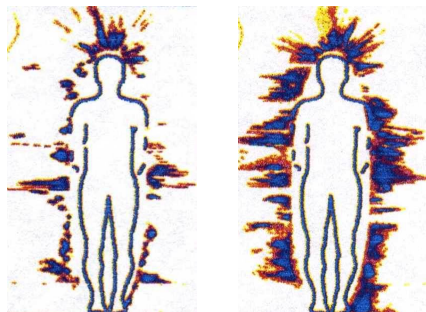
sonal feeling its compliance with personal aura for healing. But using such methods of treatment at the patient bed is practically impossible.

These ideas served as a precondition for development of technical analogues of the living trees, that are chronal generators from various species of trees (Russ. Patent № 2132205), created on the base of construction principles of organic V. Reich accumulator.

Intensity measurement of emission for created device in the profile planes and from the end face by the radiesthetic method (biolocation) against Bovy scale accounts for 24.000-30000 Bovy units, that is correlated with emission intensity of pyramids, measured by this scale (Litvinenko A.A., 1997)

In the process of healing the device is held by the patient in hands where lots of biologically active sites are located corresponding all functional systems and being the source of the chronal field of the human body. The process of treatment with chronal generators made of various tree species is accompanied by the series of provided senses and changes of physiological state of the body is analogy to the healing donorship of the plants. With one and the same patient the chronal generators made of various tree species may set up the diametrically opposite effects: from comfort and improvement of feeling up to discomfort. With proper selection of tree species, the device is made of, the patient have the pleasant feeling in the form of light pricking at the tops of fingers and foots, moving of warm flows in the body, relaxation. It is recorded also the depletion of breathing depth, a slight retarding of systole frequency etc. Beginnings of discomfort during manipulation in the patient in the form of heaviness, cold, appearance of unpleasant pains indicates the energetic incompatibility of the chronal generator field and the aura of the patient. In this case selection of device with other design is needed. The selection can be carried out emperically, according to the feeling of the patient, or by radioestatic studies (biolocation) or by the instrument method of BEO- tomography.

Using BEO-tomography method, we found elimination of "failures" in aura, increasing its dimensions, saturation of its color range with correct selection of the wood species for the



patient the chronal generator made of and vice versa, the worsening aura parameters in case of discrepancy of energetic characteristics of the device and the human being. On the BEO-grams of integral aura prior to influence and 30 minutes later, the positive changes become clearly indicated. Following the course of treatment the changes in the aura become more distinct.

The sick patient is not always in a condition to select properly his " own" tree and to use it for recovery. Using the method of BEO-tomography one can descriptively illustrate the action of virtually needed for the living organism heeling energy plants and to define what tree may mostly effects the human being.

The use of chronal generators made of various tree species is an alternative approach to use the plant energy in healing purposes and it allows the use of principles of the plant donorship energy at the bed of the patient.

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# REMARKABLE BIOTROPIC EFFECTS OF MINOR ENVIRONMENTAL FACTORS – RADIOACTIVE POTASSIUM AND ARGON: EXPERIMENTAL EVIDENCE AND A HYPOTHESIS.

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Radioactive potassium ( $^{40}\text{K}$ ) and usual argon ( $^{40}\text{Ar}$ ) belong to environmental factors which no living thing could ever escape in the whole process of life evolution of Earth.  $^{40}\text{K}$  is one of the few radioactive isotopes that has been on Earth from its first days (half-period of its decay is 1,2 billion years). Argon is believed to arise due to  $^{40}\text{K}$  radioactive decay, and it is the third in abundance atmospheric gas after nitrogen and oxygen. Still their influence upon living systems with few exceptions has never been studied.

Common sense of current science tells that there is no reason for such studies:  $^{40}\text{K}$  represents only 0,01% of all potassium on Earth, and argon is an inert, “noble” gas, so it can not affect in any chemical processes on which life is based. However, living things tend to accumulate both potassium and, strange as it may seem – argon as well!. As a result radioactive potassium concentration in living cells reaches average concentration providing 320 disintegration/sec per 1 kg of cytoplasm (it is even higher in actively working cells, such as nervous or muscle, especially their nuclei, where  $\text{K}^+$  is predominantly accumulated). This figure may seem low, if not to consider that the energy of  $^{40}\text{K}$  decay is 1,5 MeV. One atom disintegration in a cellular aqueous media generates hundreds of thousands of coherent UV-photons of Cerenkov emission or a highly excited argon atom. According to current beliefs such events may produce nothing but only minor damage to a cell. Than, why all living cells waist their energy to accumulate  $^{40}\text{K}$  – this though mild, but, still a poison?

It has been shown by A.M. Kuzin, that living things need potassium radioactivity: if they are given only non-radioactive  $^{39}\text{K}$  their vital functions gradually decay. A. Kozlov demonstrated that if living cells are shielded from environmental radioactive background their mitotic activity is significantly depressed. Thus,  $^{40}\text{K}$  is their last internal resource of radioactivity. As regards argon, recently it has been shown that it is not completely uninvolved in physiological functions. Animals which die of hypoxia under very low oxygen partial pressure not only survive if argon concentration in air is significantly increased, but even consume oxygen more efficiently.

We suggest that both  $^{40}\text{K}$  and the natural product of its decay – argon -- play significant roles in cellular physiology. According to our hypothesis, the effects of both are related to their ability to initiate and/or modulate the reactions of reactive oxygen species, involving free radicals, processing in aqueous media. Though energy released in the acts of  $^{40}\text{K}$  disintegration is very low integrally, photon flashes in due to their high specific density may initiate branched chain reactions in cellular and intercellular aqueous medium, the latter, in turn, play an important bioenergetic and bioinformational roles. Argon dissolved in water, as we have recently shown plays exerts stimulatory and organizing action upon free radical reactions. Thus these two minor environmental substances may be of profound importance for all living systems on Earth. The consequences of their deficit for the state of particular populations due to antropogenic factors will be also discussed.

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# KIRLIAN'S EFFECT: «QUANTUM MIRAGE»

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## 1. Introduction:

The Kirlian effect can be interpreted as a «quantum mirage» (Manoharan). We demonstrated and showed that the living matter was governed by remanent waves, consequence of the formation of an entity called White hole (THD-I & THD-II). The White hole, defined in the quantum theory of relativistic fields, appears when matter disappears in a spatio - temporal singularity. These waves can be put in evidence by numerous methods, notably by the electronic cloud characterization capable to impress films. The Kirlian effect gotten by the use of an accelerating voltage is the projection of electrons on a photographic plate. The gotten glossy prints, or Aura, must be the «witnesses» of the intimate working of matter and constitute a reality of the virtual.

## 2. Materials and methods:

Autoradio film 3H (Amersham)

Beta Counter (Packard Instruments)

Post - mortem serum and finger of a living being.

Software Scion Picture 1.59 (NASA)

UMAX UC 1260 scanner

Macintosh G4 (Apple)

## 3. Results:

**Figure1 :** (File: pou3D.tif); 3D presentation of a thumb print or thumb autoradiography on a 3H film. Exposure: 5 minutes in darkness and then scanning of the print before the 3D treatment by Scion Picture software.

**Figure 2:** (File: Kirlian.tif); The effect of colour in Kirlian photography. P BurceV. In Biological objects in Physical Field. 1987.

**Figure 3:** (File: aura3D23.tif); Reconstruction 3D (Scion Picture) of Figure 2 Kirlian picture.

**Figure 4** (File pmort.tif); Evolution of post mortem serum activity.

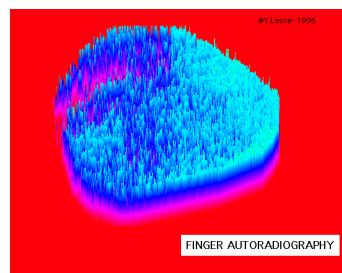
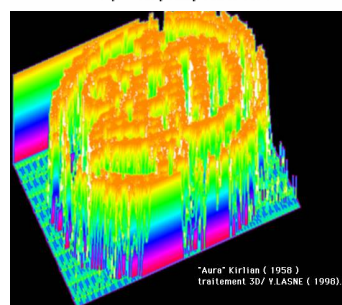


Fig. 2. The primary aura of a coin



"Aura" Kirlian ( 1958 )  
traitement 3D/ Y.LASNE ( 1998).

## 4 Conclusion:

Autoradiography reveals remanent waves while materializing some electronic clouds «flying» by pores of skin. This remanent waves perpetuate themselves beyond the «death», we have a 5 years experience on counting of sera of deceased people. It even arrives that the radiation intensifies over the «time» beyond 60 days after the death. We could show that the intensity of the Beta flow was following the gravitational variations in our system of measure using the photoelectric effect (THD-II).

