

Electrons of lithosphere and effects of quantum non-locality of electron transfer to the body for beauty of skin and health of bodies, protection against technological load and non-contagious diseases.

**Tinowa body suspension
with magnesium salt and bromides
in combination with peloid.**

Masks, local applications to body, baths.

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**International Center of Quantum Biophysics of Water and Medicine.
Germany - Czech Republic - Russia
Tinowa Group**



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Quantum biophysical properties of Tinowa® magnesium suspension in combination with peloid, when applied in the form of bath or applications

(scientific evidence of saturation of lithosphere of a living organism by electrons by means of Tinowa® cosmetic suspension is an effect of quantum non-locality)

Amazing medicinal force of mud and clay deposits of marsh called peat mud, or peloids, is known from ancient times. As a rule, for curative purposes organo-mineral colloidal formations occurred under the influence of natural processes of microbiological anaerobic conversion.

Within the conditions of oxygen deficiency in marshy soils in the result of microbiological processes, a transformation of organic substance happens accompanied by formation of polyheterofunctional naturally occurring compounds. These compounds characterized by highly-developed system of conjugated links are able to form charge transfer complexes and create electrically unequivalent environment, which, on one hand, has high antioxidative activity in itself, and in other hand, ensures quantum translation of electrons to conjugates.

In quantum physics, by conjugates are meant physically identical carriers of quantum interaction - delocalized electrons of structure of matter, which implies identity of chemical formula and similarity of other attributes of macroscopic quantum object (probably form, формы, spatial structure, macroscopic arrangement) [1, 2]. As a rule, such conditions occur in case of subdivision of an isotropical macroscopic object, for example when water identical by composition is dispensed to two tanks, between which quantum conjugation is arranged. But to implement electron exchange processes between conjugates additional conditions are required - excitation of quantum system, which is realized in response to occurrence of phase instability of associated water. Such physical phenomenon is known in quantum physics as quantum non-locality, which may be present not only for particles, but also for macroscopic objects being in quantum-correlated state [2, 3].

Antioxidative activity of charge transfer compounds, among which humic substances of peloids hold pride of place, is characterized by high negative value of oxidation reduction potential, which reach in anaerobic conditions of soils a peak in summer time ($E_h = -810\text{mV}$), and a record low in spring time ($E_h = -390\text{mV}$). These products of microbiological anaerobic conversion (in case of soil moistening and partial aeration) ensure high electron-donor strength of peloids derived from semiterrestrial marshy soil near Lohne - Südlohne (Oldenburg).



Suspension "TINOWA" - 5,5L, 3,5L, 1L
A Tinowa - Czech republik - Karlovy Vary

Major feature of electron-donor strength of production prototype of peloids collected near Lohne is their high catalytic effect and potential for multiply utilization. Physical mechanisms of maintenance and recovery of electron-donor strength by samples of these peloids involve not only their ability to activate microbiological activity due to wetting and heating of samples but also initiation of quantum condensation of electrons (induced initiation of the process of quantum condensation of electrons) from dimensionally conjugated structures of soils with low values of oxidation reduction potential.

Diagram of process of non-local interaction and transfer of electrons to the body is rather simple (fig. 1):

Source of electrons entering water matrices of cell structures of the body is electron-emitting soils, in which they are present in loosely bound state. Electrons entering the body become condensed in water matrix mitochondrialis, being under the modulating action of prosthetic groups of enzymic complexes (complex 1 - NADP H ubiquinone oxidoreductase and complex 3 – ubiquinone: cytochrome-C-oxidase) [4]. Affected by prosthetic groups, processes of rearrangement of state of associated water proceed and result in quantum condensation of electrons in their structure. When initiating activation of peloids in processes of dissolution of catalytically effective compounds, when heating solutions, and in case of physical effects on samples of colloids, an additional source of electron coming from quantum conjugated structures of soils to peloid. Then electrons go from peloid to water matrix mitochondrialis ensuring more effective recovery of their energetic function. At that, in water matrix there is formation of peroxide associates fulfilling regulatory, transporting and controlling functions in cell structures. Flow of electrons to the body restores disorders in structural-physical condition of associated water, which is responsible for system cell homeostasis, including vibrational activity of enzymes, membranes, cells, and structures of the body. Intracellular vesicular transport of metabolites and endocrine regulators is intensified, balance of endocrine regulators' expression returns to normal, cell cycle and normal cell apoptosis level is restored [3].

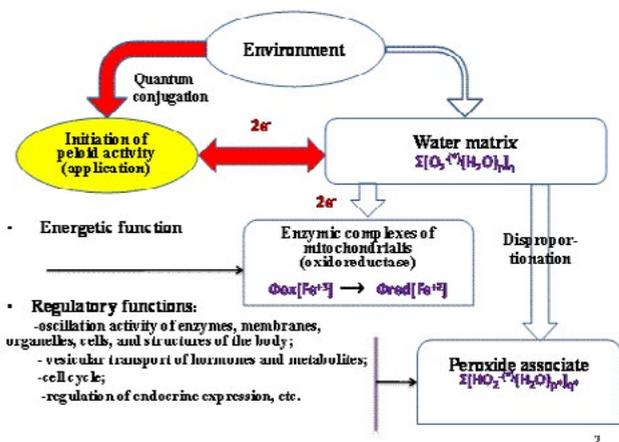


Figure 1 – Diagram of major transportation routes for electron transfer to quantum conjugated system “soil - peloid - human body” in the process of physiotherapeutic procedures with the use of peloid

Role of non-local interaction of electrons in processes of initiating of their quantum condensation may be estimated by changes in oxidation reduction potential of solutions of humic and fulvic acids (M-R) comprising an active component of peloids (figure 2).

Analysis of processes of non-local transfer of electrons to water medium was implemented at a constant temperature (35°C) of humic acid solutions of various concentrations under temperature-controlled conditions. Estimation of electron transfer to water medium was performed by changes in oxidation reduction potential immediately after preparing preliminary thermally-stabilized samples, which are contained in space-diversity polymer-based tanks (0.5 l).

Analysis of the diagram presented on Figure 2 shows that potential absolute values (Eh) depend on content of acids adding to water. Potential depression (activation of the solution) is continuous in time within first 20 minutes. At that, the more concentration of humic acids, the lower values of oxidation reduction potential. Moreover, received kinetic dependences point to periodic oscillation of values of oxidation reduction potential that reflects presence of competing processes of activation and deactivation in time in the solutions. Synchronous changes of Eh in control and prototype sample point to **non-local interaction** between samples.

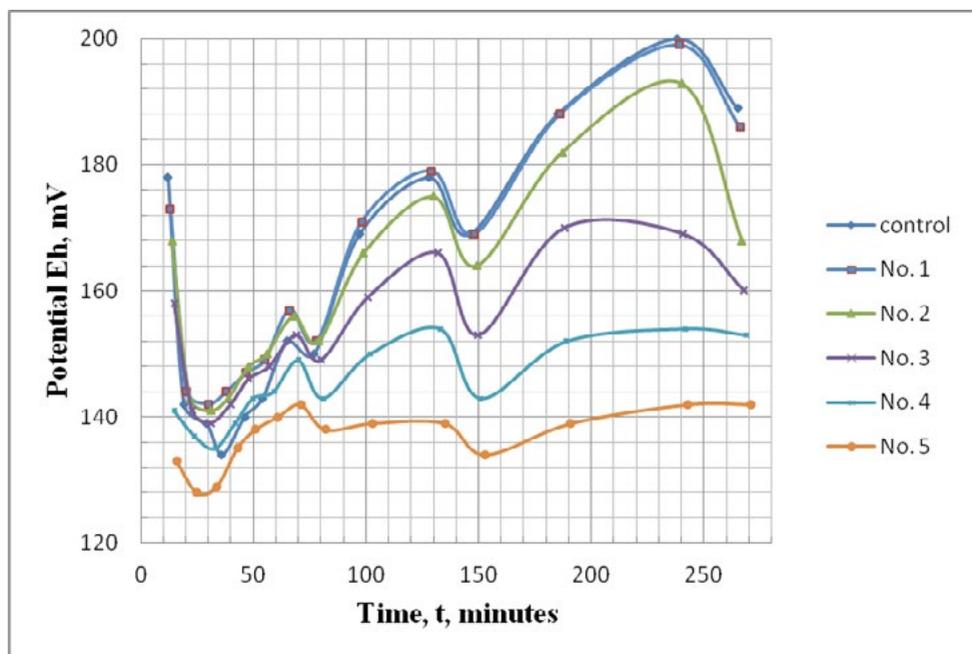
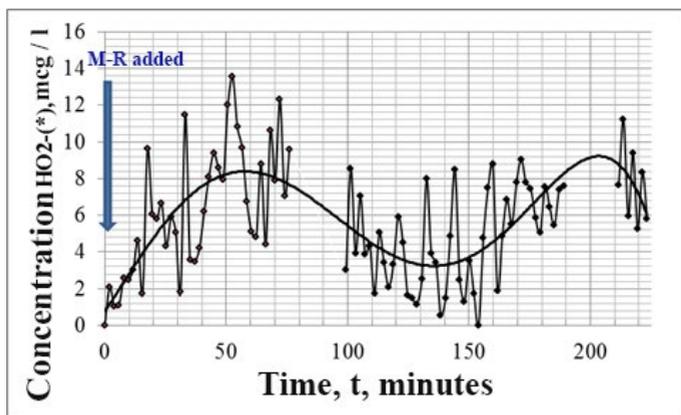


Figure 2 - Changes in oxidation reduction potential of solutions of humic and fulvic acids (comprising peloid). Dilution by settled tap water: No.1 – control; No.2 – 15 ml/l; No.3 – 30 ml/l; No.3 – 60 ml/l; No.4 – 90 ml/l; No.5 – 120 ml/l of acid solution concentrate (concentration – 1g/l)

Active states of solutions remain unchanged within 20 - 80 minutes after exposition start. During the following time periods the solutions loose their activity and after about 170 minutes they take on electron-acceptor properties that adversely affects the human body.

Activating ability of the solutions was estimated by changes in bioenergetic state of water (catalytic effect) being in direct contact with the solution under test (figure 3). As it follows from Figure 3, there are temporal unsteady variations in dynamics of concentration of peroxy anion radicals. In that way, within the period of 0-50 minutes there is an increase in activity followed by its decrease. Repeated spike in activity is demonstrated within the exposition period of 180-220 minutes (in terms of the present test).

Figure 3 – changes in concentration of peroxy anion radicals (solid curve) and temporal oscillations of chemiluminescence (curve with markers) in settled tap water by proximity action of solution of humic and fulvic acids (volume of activator solution with concentration of M-R = 90 ml/l, volume of activated solution in a polypropylene tank contained in a tank with activator solution – 250ml), ambient temperature – 35°C (thermostat)



Such changes in catalytic effect of the solution reflects, as well as in the previous diagram, effects of **temporal non-locality of activation processes**, are evidenced in alternating directions of electrons between two quantum objects.

Defined patterns **pose restrictions** on application of balneological procedures by time and exposition of peloids application. In order for the procedures to be as efficient as possible, strict adherence to prescribed time intervals, when sample activity is maximum, is required. Below are recommendations to use peloids for applications and bath procedures.

Tinowa® suspension application technology for bathing:

1. Fill a bath with water with the temperature of 37.5°C – 39°C depending on individual acceptability and the body state;
2. Dissolve 1 liter of the suspension in water;
3. Break the suspension in the bath and let the solution draw for 15 minutes;
4. Duration of taking the bath - 22 minutes;
5. After bathing is ended, surface of the body is slightly washed by warm water and dubbed;
6. After bathing is ended, adopt a prone position and cover up in a warm blanket or, what is better, in a tartan.
7. Relax time - 30-60 minutes.

Tinowa® suspension application technology for applications:

1. Heat water to 50°C;
2. Place peloid factory sealed (1 liter) into hot water for its warming-up. Suspension in the package should be heated to 39-42°C;
3. Open the package and ally the suspension to the body, preliminary rubbed with hot wet towel;
4. Then cover the suspension with polyethylene foil, followed by towel and self-heated pillow warmed to 45-50°C;
5. Application time is 25 to 40 minutes depending on application place;
6. After exposition is ended, application place should be slightly rubbed with hot wet towel, covered in or wrapped by woolen fabric and left for rest for 30 minutes;
7. During procedures with applications you may simultaneously take pharmaceutical drugs, ointments, and gels, recommended by doctors. To consolidate health benefits, it is recommended to administer a series of procedures in accordance with instructions.

Application of electron-donor physiotherapeutic procedures, in result of which the body receives electrons in the delocalized state, ensures recovery of state of associated water in cell structures and restoring of electrophysical nonequilibrium required for maintenance of homeostatic equilibrium and disturbed by diseases [3, 5]. Restoring of electron nonequilibrium in the body provides system homeostatic shears having evidenced in activation of catalytic effect of cell enzymes and coenzymes, revitalization of electron transport chains of cell homeostasis, increase in antioxidative activity and reserves of cell-mediated immunity adaptation. Along with activation of energetic and electron-transport system, mitigating of anomalies in endocrine control, activation of catalytic effect of transferrin responsible for vesicular transport of intracellular glucose transporters (glutathione Glut-4 etc.), recovery in circulation of blood-vascular system and lymphatic system..

Therefore, effects of quantum non-locality of electrically active structures of peloids, as well as technologies designed to implement these processes, are crucial and provide electron transfer from quantum conjugated structures of soils. All this promotes high balneological effectiveness of Tinowa® suspension, peloid of which is derived from semiterrestrial marshy soil near Lohne - Südlohne (Oldenburg).

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