

Mechanisms and ways of interaction between the mother and unborn child. Mother as a "transmitter" of the violence to the child. Violence against the women – Violence against the new generation of people

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Abstracts. Sources of the prenatal and perinatal psychology and medicine. New paradigm of obstetrics and embryology. Wave principles of functioning DNA and other structural elements of organism. The concept of wave transfer of the information from the mother to her unborn child (prenate) and back. A multiple level principle of information interchange in system the mother - pre-nate. Violence against women – violence against a new generation of people. The mother, the father, and social environment as "compilation" and "relaying" of the violence to the child. Approaches to preventive maintenance and decrease of a level of violence. On the way to the over-new paradigm.

1. New paradigm in obstetrics and embryology

Until now environmental people have indulgently smile, when the pregnant woman says, that her child understands everything, that occurs to her. Until now the experts name the child in uterus "embryo" and "fetus", and believe, that he there is deaf and dumb, feels nothing, understands nothing, and certainly does not perceive and does not show any emotions. Regarding memory and the mental activity of the baby in uterus they do not want even discuss. The experts and people consider that pre-nate in uterus is reliably protected, and his destiny is to grow and to develop organs and a body. They assume that only after birth with the first breath the function of all organs and systems are included. For more than 150 years obstetricians listened to heart pulse of the unborn child, but only recently scientists have begun to accept that, besides the heart, all other organs and systems, including sense organs and nervous system, not only develop, but simultaneously begin to function well before the baby is born.

Occurrence of new methods of research, which have allowed to have a look inside uterus, where we could not see before, has entered us in a new paradigm. According to it all organs and systems of a child already begin to function in the process of development, not waiting for the moment, when the child is to be born. It concerns systems circulation, blood-forming, digestion, urine-ferrous, endocrine, immune, bone, muscles, and even respiratory: though air also does not act in respiratory ways, but chest makes breathing movements(1,2).

The scientific researches have shown, that the sense organs also begin to function before birth. The tactile sensitivity is revealed since 5-7,5 weeks from the conception, first of all, on a skin of a head, cheeks, neck, and in genital area - per 10 weeks, on palms - per 11 weeks, on foot of stop - per 12 weeks, on a abdomen and buttocks - at 15-17 of weeks, on all sites of a skin - not later than 17 weeks (3,4,5).

The baby can feel pain at 24 weeks and practically on all sites of a body - by 32 weeks (6). Before this discovery doctors performed surgical operation on newborn babies without anaesthetic, and the babies would sometimes die of pain shock.

The child begins to perceive a beam of light directed on him close eyes from 10 weeks. At 18 weeks he covers his eyes with his hands to protect they from a beam of light from a video camera placed in the uterus (7), he reacts to flare of light reproduced above a mother's abdomen at 26 weeks (8,9), the final maturing of an organ of sight occurs by 33-34 weeks of pregnancy (10).

Tabl.1
Comparative characteristic of Up-to-date and Out-of-date paradigms in embryology and obstetrics

Up-to-date paradigm	Out-of-date paradigm
<p>1. The development proceeds from the complex to much more complex. The development of the human being goes from a primary cell (zygote) towards complicated organism. The primary cell contains coded genetic information, which comprises: A/ The data on the organism morphologic structure, B/ The holographic plan of organism formation sequence, C/ The functional processes of organism formation, D/ Parents, grandparents, predecessors' emotional and psychological peculiarities.</p>	<p>The development proceeds from the simple to complex. The development of the human being goes from a primary cell (zygote) to complicated organism. The primary cell contains coded genetic information, which comprises: A/ The data on the organism morphologic structure,</p>
<p>2. The functioning of all systems of the organism proceeds parallel its structural construction and continues after the birth.</p>	<p>The functioning of all systems of the organism is begins after the birth with the first breathing of the newborn.</p>
<p>3. The tactile, pain, auditory, visual, taste, space orientation sensitivity proceeds gradually before the birth beginning from the first trimester of pregnancy.</p>	<p>The tactile, pain, auditory, visual, taste, space orientation sensitivity appears and proceeds gradually after the birth.</p>
<p>4. The umbilical cord is not the only way of interaction between the mother and her unborn.</p>	<p>The umbilical cord is the only way of interaction between the mother and her unborn.</p>
<p>5. Oxygen, protein, water and other necessary products and biologically active substances (BAS) delivery to the child with blood via umbilical cord vessels, and with liquor amnii via the membranes.</p>	<p>Oxygen, protein, water and other necessary products and biologically active substances (BAS) delivery to the child with blood via umbilical cord vessels.</p>
<p>6. The metabolism products from the unborn child to mother are delivered via the umbilical cord vessels, and with liquor amnii via the membranes.</p>	<p>The metabolism products from the unborn child to mother are delivered via the umbilical cord vessels,</p>
<p>7. The emotional perception , prenatal memory of unborn child start their development from the beginning of prenatal stage.</p>	<p>The emotional perception , prenatal memory, are not suggested to be present.</p>
<p>8. Emotional and psychological interaction between the mother and her unborn child is carried out with help neuropeptides, BAS, delivered to the child by blood through umbilical cord vessels.</p>	<p>Are not suggested to be present.</p>

The reaction of the child to a sound was already found at 14-24 weeks, and after 28 weeks it have appeared constant and testified to steady perception of a sound by an organ of hearing (11,12). The baby can taste after 15-weeks (13, 14,15,16).

The baby has a sense of orientation and balance by 12 weeks, and the movements of the child are fixed from 10-12 of weeks as rocking, extending, bending of a back and neck, waving by hands, push by legs, graceful, free, spontaneous rotations with participation of all muscles of the baby. The swallowing and the movements of lips, mouth, tongue, facial expressions reaction are fixed from 14 weeks (17).

Thus, the given researches show, that unborn children have all kinds of sensitivity, which come to light in various terms of pregnancy: one earlier, other later. All together they show, that even before birth the child is formed and begins to function: a) the perceiving nervous device - receptors; b) conducting nervous ways and c) the central nervous system estimating acting pulses, and organizing reactions on them.

Since fundamental works of the Nobel winner Ramon-j-Cajal (18,19) by complex researches, the structure of brain in detail is investigated. Within first 2 weeks after conception there is a primary formation of embryo nervous tubules, which becomes an information center. By 7 weeks the predecessor of a brain telencephalon is formed (20). The general plan of level-by-level organization of a brain is generated already by 24-28 weeks, at this time the baby's brain structure is practically the same as a newborn's brain per 40 weeks and an adult (22). The differentiation of neuron and the neuron's shoots in cortex of brain is marked between 20 and 28 weeks of pregnancy. Simultaneously the nervous conducts are formed, on which the information acts in CNS and back (23).

Much data shows that the nervous system of unborn child begins to work before it is fully formed: a) Functioning of all kinds of sensitivity before birth (see above). b) The reactions of unborn children to various stimuli (light, sound, flavoring) have been found. The reactions include sense organs plus various groups of muscles in the face, neck, arms, and legs. The reactions very much reminding reflex, have formed the basis to assert, that already in the prenatal period the loops reflex of an arch are generated. Moreover, the complexity of these reactions allows to speak about presence at them of working physiological functional systems (25). These systems carry out self-regulation processes and self-checking and functional communication with external environment. c) Electroencephalograph research have shown the reactions of the brain to external stimulation of eyes, hearing and touch (24). d) The neuropeptides system also actively participates in this process. It connect, with the help of 50-60 kinds of neuropeptides, constantly moving in the organism, the nervous, endocrine, and immune system in one information network working in both directions (26,27,28). e) The neurons of the brain produce biologically active substances (BAS), neurotransmitters (catecholamines, serotonin, opiates), which in certain measure are connected with emotional displays.

Hence, the brain of an unborn child not only develops, but *functions, reacts* and *provides communication* of the child with the internal and external world. Moreover, it is proven that the brain begins to work before the structure is complete: just as the heart begins to pulse 22 days after conception, long before the completion of its structure, the brain also begins to function earlier than it appears finally structurally generated.

And what about emotions, thinking, and memory?

The emotional displays are found out in the child as the expression reactions the movements of the eyes reminding squinting and a smiles at 14 weeks, puckering of lips, scowling, muscle tension around eyes (have been associated with audible crying) - per 24 weeks, a smile and cry of the child are photographed in uterus by the ultrasonic device of new generation 4D per 31 week (29).

To the present time much data confirm a reality of psychic and emotional perception of unborn child and psycho-emotional interaction between the mother and her unborn child (30, 31,32,33,34,35,36,37).

A lot of information about what happens in the prenatal period, while the baby is in the uterus, as impressions of events are saved in the memory of children and adults. This information has been retrieved in several ways: a) By the influence of LSD or holotropic breath on the man (31, 38); b) With the help of psychoanalysis, hypnosis and other methods of psychotherapy; c) As a result of psychological research on schoolboys (39); d)

In psychological experiments with the participation of pregnant women, who read children's stories, sang songs, listened to music and "pregnant fathers"(40,41,42,43)

Besides the memory about the events during pregnancy, now we also have scientific proof that children and adults have memories of *their birth*. It is said that : a) Some children aged 3-5 years can give information about their birth (44), b) Special scientific research has proven memory of birth (35), c) Many statements from adult people received even without hypnosis, about unusual sensations, feelings, habits, ideas, style of thinking and behavior are published (32, own data). Their comparison to events during pregnancy and labor was found out by precise chronological connections and are confirmed by the witnesses and / or by the participants.

In the process of interaction of mother and child there is a formation not only of physical, but also psychological health of a baby. We can point out, that at the moment of conception the zygote already is full of information thanks to the genetic data, or not only of morpho-structure of organism, but of psychological qualities of parents and ancestors. Besides, the child is capable to snatch hard the most colorful moments of his mother's life and held them in his memory. In the process, later, these images are reflected in his thinking, emotional feeling and in the style of his behavior as a child and adult.

His capability and talents, and tasks are very much connected with it. It is found out as well, that many psychological problems of a person take their source from the period of pregnancy, labor and earlier postnatal period. It is considered also that all those activity is the result of psychological reactions of mother, her way of thinking and behavior. This, in its turn is the reflection of psychological and cultural specialties of the nearest environment, and socio- economical and political condition of the society as well, in whole. Not the last role in this plays the existed philosophy and technology of modern birthcare. There are proves that each of these circumstances or their totality may stipulate the appearance of the *perinatal psychological traumas* at the pre-nate. The psychic traumas may appear at the baby and at the grown up as psychological problems such, as fears and phobia, neurosis, psychopathic features and dependencies (drugs, alcohol, and smoking), sexual peculiarities, psychosomatic disorders, high aggression and violence,. Those traumas could be the reason of psychological discomfort, and they meddle with the person to be in harmony with itself, with the people around him and with the environmental nature, from which the personality himself, his family, and society as a whole suffers.

Thus, in the course of the last decades of the 20th century the scientific-technological progress and the results of the scientific researches got with the help of the new methods, changed very much our imagination about a fetus and they let to formulate the position of a new paradigm in embryology and obstetrics (35,37).

In the accordance with the modern conception, the information from the mother to pre-nate is transmitted with the help of neuropeptides, hormones and others BAS mainly through a uterine-placenta circle, by blood, which is moving through the umbilical cord. Though the explanation of numerous displays, and in the same number, elicited from the memory of events and pictures, chronologically bound at the person, with the pregnancy and labor, came to the serious contradiction with the universally recognized conception.

Thus, it is shown in experiments, that some BAS, for example adrenaline, bound with emotion of fear and anxiety, because its high molecular weight (in general concentration) can not overcome placenta barrier and shift from mother's in blood to the child's (45,46).

The clinical data also do not give straight and convincing prove that mother's information goes only with the blood through umbilical cord or by amniotic fluid through membranes and placenta. Thus, in one of our experiments (47) we found out the change of heart's

activity of the pre-nate as the answer to the different stimulus, which caused the woman to change her emotional condition. For example, this happened when the woman told about one member of the family who caused her to appear unpleasant emotions and exasperation an irritation; or when the woman heard for the first time the sound of palpitation of her baby, and also when she heard the tape recorder of the children's songs. The change of heartbeat happened practically instantly. How to explain those instant reactions?

And how to explain a great number of sensations, pictures, habits, which seem as fetus fantasy of the story-teller, on the first sight at the same time, there are accurate chronological coincidences which took place between them and events in the prenatal period. There are some observations from our practice.

From the story of a mother: 1. *I wonder all the time at my son, who is 24 years old, who cannot hear the crunch of an apple while somebody eats it. In his childhood he ran away from a room, where people ate apples, and I always rubbed them to him. Maybe, this is the result of my experiences during my pregnancy? At the time of my pregnancy of 5 months, I wanted apples very much. They were very dear, and we were students ... Once I decided to buy one kg of apples. I was happy, I brought them home, washed and put them on the plate. In the pleasant anticipation of good emotions, I decided to finish some important things and went out of house for a short period of time. When I returned, I found out, that the plate was empty: my husband ate nearly all apples. It was hurt without limit cried, tapped my feet scolded at my husband, and I had hysterics, which never happened before. I long not be calmed by His words: " I love you: I left two apples to you, do not you see?" could not comfort me for a long time. Maybe my child remembered this episode, together with me? And this define his emotions and style of his behavior, when he hears the crunch of an apple?*

2. *Next example. One of our colleagues, doctor, a sports woman, in the past a pentathlonist, five-fighter, a skates-winner champion, could not understand for a long time the negative attitude to the sports of her senior daughter of 12, who once said to her mother: " You will never force me to go in for your light athletics". After getting acquainted with perinatal psychology, her colleague analyzing the flow of her first pregnancy, suddenly pointed out, that at the beginning she continued to go in skating but at the time of pregnancy at 16 weeks, she fell down and was very frightened for her pregnancy. She stopped to go in for sports from this moment. "Isn't that fright, which suffered not only by me, but by my daughter, played a "decisive role"? - asks G.N.*

3. *E., age 28, goes her story. "In my childhood, as much as I remember myself, I was constantly haunted by the thoughts of suicide. Gradually this thought came as my wish to do it. I mentally imagined many ways of how to do it, and I did not feel any fright before death, and I felt that I experienced death in the past. To the age of 12 the thoughts of suicide became an obsession, and prevent me from living and I could not understand what went on with me. I addressed to my mother with whom we had very good relations. Quite unexpectedly the following circumstances were cleared. When my mother was pregnant with me, she was pregnant during eighth month, she found out of my father's adultery, and that his lover was going to bear a child at the same time as my mother. My mother tried to hung herself on the tree in park. To our great relief the brunch broke, and we remained alive. Soon I was born one month earlier the time. All this was very trying to listen to but I found out the explanation to my suffering, it became easier on my soul, and the thoughts of suicide did not disturb me any more".*

These bright and difficultly explained, from the point of view of classical medicine, the examples supplement the list of many similar stories and published by other authors (35,44,oth.). It is impossible to explain the given emotional impressions and instant reactions by extremely carry of the information by a biochemical way with the help neuro-

peptides and others BAS. Not denying these ways, we would like to discuss here another mechanisms and ways of information interchange between the mother and her unborn child. However, in the beginning we shall make small deviation to enter the reader into other world, world of quantum physics, corpuscle-wave theory, quantum genetics.

2. The wave principles of functioning of structural elements of organism

According to Einstein's paradigm and theory substantial-wave dualism of a matter Louis de Broil, any substance simultaneously can be in a status, both particle, and wave, both matter, and energy. The specified statuses are closely connected among themselves, exist in parallel and are capable to turn each other. These determinations of the quantum theory, and wave mechanics confirmed experimentally, were put forward and are advanced in 30-40th years of 20 century by the outstanding scientists - physicists (Compton, de Broil, Schrödinger, Dirac, Heisenberg, Bohr, oth.). These determinations were hardly perceived physicists of that time, but today it is difficult to itself to present physics without the quantum physics. Last decades the ideas of the quantum theory have begun to penetrate into biology, genetics, medicine. They have allowed to advance in understanding of principles of functioning of organism.

The particles and the EM wave connect with the information. As to definition of the information, how wrote N. Wiener (1): "The Information is the information, but not energy and not matter". In the half of the century E. Evreinov (2) stated: "The information as the scientific category is entered as primary concept, which together with the matter and energy are not subjected to definition". Practically we always deal with three-unity: matter - energy - information. The information, which the EM wave are bear, define by the term "the wave information".

According to modern performances **organism** of the man includes the following levels: cortical, organism, system, organ, tissue, cells, sub-cells, molecular, atomic, elementary.

The elementary level includes electrons, protons and other components atom. It is known, that electron as the particle has a charge and has ability to receive, to transfer and to give back energy. Believe, that under influence of external forces electron can move into other orbit, or can lose communication with atom and be in a free status. Any of these statuses is accompanied by radiation of quantum's of energy in kind the electromagnetic (EM) waves with a various interval of frequencies (light, radio-waves, etc.) depending on influence of external environment.

What substances of organism are capable to generate and to perceive the wave information?

On the molecular level it is **water, protein, and DNA**.

The researches showed that **water** in a liquid status has complex quasi-crystalline microstructure. The molecules of water are united in labile formations - clusters. Cluster structures are in an oscillatory status and form the system of oscillators. Petrosyan e.a. (3) believe that the own fluctuations of molecules of water in a range of the extremely highest frequency (EHF-range) become a source of generation of radio-waves by water and biological environments. The authors have defined the length of a wave (λ) of the own EM-field of radiation of water environment, stimulating by a magnetic field. It has appeared equal 2 mm, that roughly corresponds to frequency (ν) 25 GHz. EM wave of MM range (EHF-ranges) at the extremely lowest, not thermal level of capacity, show high biological activity in the relation of regulation of deep processes of vital activity to alive organisms at a molecular-field level. The matrix of water has spatial and temporary organisation, and can execute a role of the synchroniser, and standard of time in bio-systems. That allows to speak about bio-information properties of water systems (4, 5,6,7).

By additional arguments supporting performance about water as of information environment capable to perceive to remember and to transfer the wave information are homeopathic practice (8), influence of "magnetic" and "electro-chemically activated" waters on biological objects, including man (9,10). Last years the researches on bio-energo-information influence of the man on the water and solutions are carried out. Such influence resulted in structural changes of water, rendered influence on their spectra of letting pass and absorption, in particular infrared (IR)- spectrum (11,12). Such water rendered precise influence on biological objects (13). Water with frequencies of fluctuations 1,2; 2,5; 7,8; 10,0 GHz renders favorable influence on organism, whereas the water at frequency 5,0Hz at many people the apathy and nausea is observed, and the frequency 1,8 Hz - is registered in cancer tissues and corresponds to water containing heavy metals (14). Ludwig W. (14) has shown, what even in water bi-distil the information as EM-waves about former in it impurity of heavy metals, nitrates, microbes is kept.

We would like to remind that water makes significant weight of the organism. So, the unborn child in the age of 6 weeks contains on weight about 97% of water, per 16 weeks - up to 92%, new-born - up to 72%, adults - up to 60-65%. On a share of molecules of water it is necessary more than 90% of all weights of a cell (15, etc.).

It is possible to believe that water of cells and organism as a whole carries out the very important double role: 1) it is the original generator of EM waves of MM range; 2) and at the same time water environment provides perception from external and internal environment of the wave information, which carries and transfers the information to other structural elements of organism. Thus we mean, that it is impossible automatically and completely to transfer experimental data received at work with water (water distillate and containing various additives), on water contained and circulating in organism, and which are in close connection with proteins and other structural elements of organism.

The molecules of **protein** also are described as oscillatory systems capable to generation of waves. It is connected from them dipolar structure, which is formed due to connection the nucleic acids with chromatinic protein. Such nucleo-proteides (DNP, RNP) become asymmetric molecules because of non-uniform distribution of charges inside a molecule, and they are capable to carry out intermolecular transfer of energy separating in space the place of absorption of quantum and the place of realisation of its action (16). The author believes that in a complex DNP and RNP proteins thanks to the high polarisation not only expand a range of waves (package of the information), accepted by whole complex, but also become system conducting a resonant signal on the nucleic acid, which become a target for the wave information.

The special attention of the scientists is involved in research of a wave nature of **genes**. From a position of quantum genetics DNA molecule in structure of chromosomes has a substance-wave duality, similar to duality of elementary particles. It means, that DNA codes the organism in two ways - and with the help of substance DNA, and at the expense of its sign wave functions (17,18,19,20). The authors believe, that: a) the genetic device has ability to be non-local at a molecular level. That is shown as holographic memory of chromosome continuum, more exactly in each nucleus, its genome the memory of structure and function of all organism is kept.

b) The genetic device also has ability to be quantum non-local according to the effect of Einstein, Podolski, Rosen (21). It means, that genetic and other regulatory wave information of genome is written at a level of polarisation of its photons and non-local (everywhere and for zero time) is transferred to all space of bio-system, using code parameters. By this non-inertial information contact between billions cells of organism is reached.

c) Important is the third rule that genome as a whole and separate cellular nucleus have quasi-consciousness of a different level. The genome, and separate cellular nucleus are capable to generate and to distinguish textual-figurative regulatory structures with the use of a phone principle, of holography, and quantum non-locality (22).

The theory of a substantial-wave nature of the genome has received the **experimental** acknowledgement. The first real and authentic experiments in the field of quantum genetics has carried out Dzang Kandzeng (23). His device on distance of tens centimetres transmitting " wave genes " from the donor to the recipient, used own radiation of bio-systems of the donors. He managed to transfer the information from green mass of wheat on germinating semens of corn and barley, with melon on germinating semens of cucumbers, with peanut on the germinating semens of sunflower and to receive appropriate " wave hybrids ". His experiment is known, at which he has directed the bio-information from a duck on the 500 eggs. From the 480 hatched out chickens 80 % - had a flat duck form of the head, at 90 % - the arrangement of an eye has changed, at 25 % - on paws the membranes have appeared.

Not less important was that the attributes, received by hybrids, were transferred by inheritance, i.e. the biowave information was perceived by genes, was kept in genetic memory and "was relayed" to the following generation.

The results of this work were confirmed by researches of P.P.Gariaev (17), which with the help of the own radio-electronic device simulating the radio-wave processes in chromosomes, restored the chromosome device damaged by radiation semens of wheat and barley. In subsequent with the help of similar bio-active radio-waves the effect of revival semen-unshoots of a plant *Arabidopsis thaliana*, taken from the Chernobil zone, which has received a high doze of gamma-rays (20). The described experiments have shown also the opportunity distance (up to 2 m) transfer of the bio-information. These works have confirmed the earlier carried out researches on so-called " Kasnacheev's mirror cyto-patic" effect expressing that the alive cells divided by the quartz glass, exchanged by the strategic regulating information. At last, all of them have confirmed of a prediction made still in 20-30-x years of 20th century outstanding genetic A.G.Gurvitch, A.A. Lubischev about a wave status of genes and wave way of transfer of the hereditary information. Now idea of a wave nature of genes is supported by scientific school F.A. Popp (24,25,26,27) and other scientists.

Chromosome continuum multi-cells organisms is capable to generate and to perceive the EM fields of a wide spectrum of a light range (from 250 nm up to 800 nm), infra-red, over high frequency and sound ranges. That is, according to P.P. Gariaev (17,18) DNA are capable to let out and to perceive a weak sound, laser light and radio-waves.

Last years the phenomenon of conversion of EM waves in bio-active radio-waves was open (28). Thus it is revealed that after the bringing of a part of the information with DNA to water its structure has changed. After that water rendered precise action on growth and development of plants.

The theoretical and experimental works have shown:

1) the bio-information can exist in a wave form, 2) the DNA has ability to be a source of the wave information, 3) the water has ability to perceive the wave information, 4) it can keep the wave information in memory, 5) water and DNA may transfer this information to other objects, 6) the EM waves can change their resonant frequency into radio-waves by the conversion, and this radio-waves are the bio-active (18).

Theoretical and the experimental researches allow to make the conclusion, that the informative-wave processes are peculiar both DNA, and protein, and water component of bio-systems. The amplitudes of the separate molecule's wave may summarising, and forming the common EM wave of the different type of molecules or genes.

Cellular level. Proceeding from above told, the genome of the man besides biological, has also by wave properties, that defines a EM wave of a nucleus and summarise in a common EM wave of a cell. Some scientists, however, are not inclined to consider the nucleus of cell as it "the brain centre". So, the expert in area of cellular biology Bruce Lipton (29), expressing for the benefit of quantum mechanisms of biological processes in a cell, allocates the main role in adaptation of cell to external conditions to the membrane of cell. These conclusions he has made, observing for behaviour muscle cell of the man in conditions of different external environment. Probably, such attitude Bruce Lipton to a role of a membrane of cell has defined the causal approach, whereas the DNA possess spontaneous activity, which constantly support si-PHK and mi-PHK (30,31,32). Anyway results of Lipton's researches and his followers confirm the important value not only genome and nucleus but also membrane of a cell in an information exchange of cells.

It is necessary to remind, that the each cell of human organism contains the huge quantity of different proteins. Besides the nucleus and membrane there is the cell's cytoplasm, which includes in itself a big quantity of organelles: ribosome, liposome, proteasome, mitochondria, collagen fibrils, cyto-plasmatic reticulum, network protein of micro-strings and micro-tubules, which is the components of cells, and etc. Each organelle includes the molecules of water and protein.

It allows to state the idea, that every organelle brings its contribution to the wave activity of a cell. All elements of any cell are connected among themselves by glico-proteins and other structures. And, hence, all elements of a cell: nucleus (containing the genome), membrane (with the set of receptors, canaliculus, aquaporins), cytoplasm (with the set of organelles) bring their own contribution to a wave range of a cell, and everyone, and all together participate in the information exchange between cells inside organism, and, probably, with external environment.

The structural elements of a cell and genome, being by complex formations including water, RNA, DNA, protein, lipids, microelements etc., are capable to generate and to perceive EM field of a wide diapason: light, near-light – infrared and ultraviolet, highest frequency (HF) and extremely high frequency(EHF), sound and ultrasound ranges (17,18). Each structural elements of cell and genome has the extremely specific wave range So, calculated resonance frequency of genome of the human cell is $2,5 \cdot 10^{13}$ Hz, nucleus of somatic cell $-9,55 \cdot 10^{12}$ Hz, mitochondria - $3,18 \cdot 10^{13}$ Hz, somatic cell - $2,39 \cdot 10^{12}$ Hz, etc. (16). It provides the exact mutual recognising cells, sub-cellular structures, chromosomes, molecules of proteins. The amplitudes of waves of separate molecules can summarise and form a common EM wave of the given type of molecules or genes.

Organ's level. In a similar way, probably, there is imposing waves of sub-cellular elements and cells of separate organs that form a resonant frequency, specific to the given organ. So, the frequency of EM activity of heart is within the limits of one hertz, of brain - within the limits of 5-20, and at a pathology - 0,5-70 hertz, etc.

Thus, genes, each cell, its structural elements, organs, and it is possible the organism as a whole, have simultaneously attributes both of substance, and wave. On the one hand, they function according to principles known in physiology, biophysics, biochemistry, that is they perceive, reproduce, transfer the information according to the laws of the classical mechanics. On the other hand, in parallel, at the same time, all structures perceive, reproduce and transfer the information each other with the help elementary EM and radio-waves, using principles of the quantum mechanics. Thus, they constantly co-operate both with internal, and with external natural and artificial EM and acoustic fields.

Hence, all mentioned structural elements multiple-level organism are in close interaction due to the wave genetic information. It allows billions of cellular nucleuses at a genome's level to be in instant EM contact and, hence, each cell of organism in the same time receives the information on a status and needs of all other cells. Such mechanism allows to consider the organism as super-coherent system functioning as a single unit. To mechanisms providing these purposes are: a) the quantum non-locality (everywhere and for zero time) genetic information, b) super-redundancy, c) super-informativity, connectivity, other (17,18,22).

So large volume of the let out and received information seems fantastic and inevitably results in two questions: a) whether has a gene of such capacity? and b) whether has a gene of sufficient interference-protecting of the wave genetic information?

Large capacity of memory and operative opportunities (the speeds of information interchange) DNA have allowed to put forward idea and to begin serious discussion of opportunities of creation of the bio-computer on DNA (33).

To February 25, 2003 on Conference of a National Academy of Sciences of Israel was informed, that the scientists of Institute of Sciences of a name Weizman in laboratory headed by the professor E. Shapiro closely came to creation of the bio-computer on a basis of DNA. Let's take advantage of the offered figurative comparisons for a rating of opportunities of such computer: one gram of dried up DNA can incorporate in itself so much information as it can contain in billion CD. Received on a basis of DNA the processor is so small, that in volume of one drop of water could be contained up to three billions of these DNA-computers.

Amaze also speeds of work of such computers: up to 66 billions operations per one second with the exact definition of 99,8 % (SciTecLibrary.com/ 5.03.2003). These figurative comparisons show, how great capacity of memory and operative opportunities of DNA.

As to the second question, the researchers believe, that multiple-cellular organisms have a high hindrance-defence of the gene's wave information. Thus one authors (16) consider that this is promoted by wave specificity, the extraction of signal at the expense of narrowing a strip of working frequencies, duplication of signals on several frequencies. Others (20) - believe, that it is provided also with redundancy of the wave information, and the high noise background is not a handicap for passage of signals, and on the contrary, serves their source and means of increase of information value, as allows to distinguish the information according to a context.

The high resonant frequency and high speeds of passage of a signal such as photon's (10^{-8} s) and atto (10^{-18} s) also are promoted by the noise-stability. The similar situation is well known: hundreds radio and tele-stations do not prevent each other, though every second they direct the wave information, which is in the same space. It has allowed to speak about effect teleportation in multiple-cells organism (18). The effect teleportation, which was confirmed by Bouwmeester D. et al. (34), creates conditions for unobstructed penetration of waves into any structures, in any direction, on any depth. All this allows genome to be in instant EM contact to billions cells of nucleuses, due to what organism consider as super-coherent system.

Hence, the hindrance-stability are promoted by wave specificity, the very high resonant frequency of signals, photon and higher (atto) speed of their passage, effect of teleportation. The high noise background created by huge quantity of signals, does not prevent their passage, and serves a source and means of increase of information value agrees "to a background principle" and principle "of perception of the information on a context". In it the universal phenomenon of a nature is reflected, when the complete knowledge of a part becomes possible only in view of properties whole (18,20).

For a long time the genetics believed, that only small part of genome (2-5 %) is coding and bears the useful information. The opening of a wave nature of genes has allowed to understand, that the not coding sequences DNA (about 95-98 % genome), which earlier carried to useless part of genome including "information dust" earlier, actually are the strategic information contents of chromosome (17,18). Probably, they execute a role of "conservators" and "liberals": on the one hand, protecting the gene information on structure and the functions of organism from sharp changes, with another – they accumulate the new information, "estimate" it, promote the adaptations of the man to new natural and socially-psychological conditions of existence.

Thus, the theoretical and experimental works have shown, that it is possible to consider the genetic information, to write down, to keep, to transfer and to enter to the bio-system-acceptor. It lied into a basis of hypothetical model of endogenic bio-wave (holographic) management of development of multiple-cells organisms from an embryo status to an adult (20).

It is possible to state the assumption, as other structural elements of organism, the including the molecule protein and water, also have a dual nature and have ability to read out, to write down, to keep, to transfer not only biological, but also wave information. The acceptance of situations of the quantum mechanics about a duality genome and structural elements of organism (cells, tissues, organs) allows us differently to consider interaction between the mother and her unborn child.

3. Concept of wave interaction between the mother and her pre-nate

As it was shown above any somatic cell of macro-organism and its compound, including a water, proteins, DNA have two sides. First of all, they are the substances. Second, they can radiate EM and radio waves, and also perceive wider range of wave fluctuations, including light and near-light (infrared, ultraviolet), extremely high frequency (EHF) and extremely highest frequency (EHstF), i.e. they are actually capable to let out and to perceive weak sound, laser light and radio-waves (1). The wave radiation of cells summarise and form a wave field of tissues, organs and organism as a whole. In fact, they create a wave information field around organism and forms an image of the man as multiple-cellular broadband nano-radio-station.

And what about sexual cells? What is the relation to growth and development of the unborn child, to the process of interaction between the mother and her child?

Burr H.S. (2) for the first time has found out, that the axis of electrical polarisation exists both in fertilised and unfertilised ovule, i.e. the ability to generate EM energy have not only somatic, but also sexual cells! What supports this idea?

The structure of ovum and spermatozoa includes molecules of water, proteins and DNA. All these components, as was shown above, have ability to generate and to perceive the wave information and, probably, at summarising form specific a EM wave of sexual cells. On a surface of female ovum the plenty of receptor proteins settle down, which recognise the protein on the surface of spermatozoa and its attachment to the membrane of ovum(3). These protein structure, probably, become original wave beacons for spermatozoa, on their head of which the protein substation (plasma membrane) with its own wave characteristic is disposed.

Besides both ovum and spermatozoa in their structure have molecules of water having its own frequency range. And, at last, both ovum and spermatozoa contain DNA with their wave activity and frequency range. It is possible to assume, that summarise EM waves of protein's molecules, DNA and waters form specific for ovum and spermatozoa frequency range. It creates conditions for formation of process "electromagnetic taxis", which

provides the spermatozoa with information, they are purposeful (and, as it seems, reasonable) driven to ovum, which with the help elementary EM, and maybe possible, with the radio-waves, informs them about her status and place of stay.

One may suppose that at the moment of their meeting a bio-resonant effect appears, at which their EM activity aspires to zero. This moment is a starting one for inclusion and/or amplifications of activity of enzyme systems providing introduction of the head of sperm (together with genetic material) through ovule membranes (4).

The genes of the father and mother, being united in a primary cell - zygote, on the one hand, become material substratum for synthesis RNA, protein and structural development of organism. On the other hand, the genes, as was shown above, have a wave energetic level ("super-genes", by Gariaev P.P.). This level includes spatial- temporary dispersed wave structures, original holographic lattices, plan of construction of organism (1). Probably, this plan is in dynamics: in process of expansion of the genetic program of construction and functioning of new organism between genes and super-genes there is a constant interaction and mutual support of activity of both components. This process (with participation of protein and water) goes under the influence of internal and external wave activity, which support creative processes. Though sometimes they can bring in handicaps and break the genetic program.

Zygote becomes new resonant mass generating already on its own frequency EM wave. With zygote appearance the situation EM changes: two energo-information subsystems (the mother and the child) take place in synergism and united by one range frequencies. Zygote with its own frequency range instantly intersperse in the "multiple-voices of chorus" of mother's genome ("Gene is a orchestra, chorus..." Lubischev A.A. wrote,5) and other structures, organs and systems sounding in mother's organism, bringing in its own information, its own "solo", which begins to subordinate to itself the mother's biorhythms, metabolic processes, emotions and mentality. In process of expansion of the genetic program according to the wave holographic plan of development new multiple-cell organism forms new wave communications between its cells, their sub-cell elements, genes.

Simultaneously with it there is a search of similar structures of mother's organism, having the same range frequencies. After the establishment of the wave communication between them from the fetus's structures to the appropriate structures of the mother, the information directed constantly on the processes at the fetus. First of all, wave information on construction of the appropriate structures and their functional status.

Simultaneously with it, from the same mother's structures (including her organs and organism as a whole) to the embryo-fetus the wave acknowledgement of correctness of realization of the holographic plan of construction of organism, written down in genome constantly comes: a) about accuracy of an arrangement of organs, b) about timeliness of inclusion of functions of cells and organs, c) about specialization, which is connected to process activating and repressing of genes which are responsible for those or other phenomenon, etc.

At level of organs such wave interaction is carried out with the help of wave flows (6,7). It is known, that each organ of organism has specific EM activity, specific frequency, which is fixed by devices in the form of curves having a specific configuration (for example, curve electrocardiogram - ECG, electroencephalogram – EEG, etc.).

That is, each mother's organ "summarizes" EM activity of its structures and generates quantum of energy of the certain resonant frequency, which are caught by the appropriate structures of the same organ of the child. It is possible to believe, that it lies in the basis of regulation of its formation, development and functioning, because genome includes not

only genes responding for synthesis of protein, but also genes determining spatial-temporary structure of bio-systems.

Indirect acknowledgement of this is following. Believe that at the change of molecular structure of globulin the EM frequency of their radiation in an alive cell changes, and on the contrary, the changes of resonant frequency of a cell can testify to changes in the structure of its globulines (8). At the disease of any mother's organ is change its molecular, cellular and tissue structure. That results in change of its wave resonant frequency and direction of the deformed wave information to the same organ. It can result in formation of defect of development of a organ or its morpho-functional inferiority.

Let's explain it by an example. M.M. Shekhtman et al (9). at research of 68 children in the age from 3 till 15 years, who were born from the mothers with a pathology of kidneys, has found out, that healthy were only four, others had diseases of kidneys or some - other organs (Tab. 2). The authors have found out high frequency of disembryogenesis on organ, tissue and subcellular (metabolism disorders) levels at absence of changes in immune system. It has allowed them to make the conclusion about a teratogen role of illnesses of urinary system of the mother in relation to urinary system of the child.

Table 2.

Diseases of children born from the mothers with the chronic pathology of urinary system
(By Shekhtman M.M. et al., 1982)

Groups	Child- ren	Health		With a pathology of urinary system		With diseases of other organs	
		abs	%	abs	%	abs	%
In total	68	4	5.9	59	86.7	5	7.4
Nephritis	53	3	5.7	47	88.7	3	5.6
Glomerulo- nephritis	15	1	6.7	12	80.0	2	13.3

Other facts have collected also.

The story of the girl of 16. When my mother was pregnant with me and stood under shower the hot water poured suddenly on her spine. I have on my spine a great region of red spots of different size. Isn't it bound with my mother's impressions during her pregnancy?

The story of the mother: When I was pregnant, once I stood in the kitchen before a mirror. The flame on a gas cooker suddenly flared up behind me. I have felt by the back strong heat, and I was frightened because of the fire. After the birth of my daughter on her back have found out an extensive red stain, which is kept before this time. The experts speak, that it a birth-stain of a not clear nature. Can it be connected to the event, which I well remember before this time?

These and other similar examples allow to put forward a hypothesis about existence of wave interrelation of organs of the mother and her unborn child by a principle "organ-to-organ". For example, as in the submitted supervision - about connection of the appropriate areas of a skin of the mother and skin of the unborn child, kidneys of the mother and kidneys of the child.

The concept, offered by us, allows from some other positions to explain the well known facts of damage by a principle "organ-to-organ", to understand mechanisms and variety of these damages. The display of morpho-functional inferiority can be revealed after many years after birth (10,11). It drives us to a conclusion about necessity of the control behind a status of the mother's energetic field and its duly correction.

Above we have stopped on the principles of wave interaction of molecules, cells, organs of the child with the appropriate structures of the mother's organism. But we believe, that the

same mechanisms underlie on the basis emotionally-psychological interaction between mother and her unborn child. "From the moment of occurrence of zygote between the child and mother the dialogue begins" (12), and it goes not only on substantial level (hormone, neuropeptides, other BAS) but also on a wave level. Obligatory conditions of this dialogue are instantness and uninterruptedness of bilateral transfer of the information from appropriate DNA, cells, tissues, organs of the mother to the unborn child and back. It can be supplied with the mechanisms of quantum non-locality (everywhere and for zero time) genetic (chromosome) and extra-genetic (protein, water) wave information. Due to this mechanisms the information system of the mother and the child are in unique interaction ("here and now").

The quantum physics has given us a unique opportunity a little bit more widely to consider processes of **memory**. One may suppose that memory is not an exclusive prerogative of a brain and its neurone components. Some experts (13,14,15,16) speak about existence of cells' memory, in which the emotionally perceived impressions about events of which the participants or witness were the mother and her unborn child. But how does it occur? Not excepting the standard opinion on a role of neuropeptides, we shall consider the other opportunity.

First, according to modern performances, the genes that received by the child, contain in the memory which has come from the parents the information on their morphological and psychological features, and also the impressions about events, or more correct about the reactions on the events, originated with his ancestors (**genetic memory**). Secondly, the saturation of an individual by the own information, own impressions received with the participation of the own mother, parents with the occurrence of zygote begins (prenatal and perinatal memory).

The researches have shown (17), the memory of water is connected with restructure of its molecules and forming up them in clusters, that allows them to become accumulators of the information EM fields and their switchboards (re-translators). Formation and the destruction of clusters, probably, provides perception of information, recording in memory and its clearing. Proceeding from this, zygote, which includes 98 % of water, appears especially sated by fresh impressions. In the process of its division, the new formed cells of embryo, then fetus, pass not only genetic, but also urgent information coming to a developing child daily.

This information can be included in water and protein components of any cells of the developing child (and not necessarily only in nervous cells of the brain) and his genes, and to be kept there "poste restante". Though daily there is a constant renovation of cells, the wave information contained in growing old cells is not lost. It automatically passes to the young cells. Such approach supports the mentioned above opinion on existence of **cellular memory**.

Hence, the intrauterine development of child is accompanied by constant renovating of memory by the current impressions. This coded information as EM, acoustic waves can be restored, turn to the sensations, be passed and be perceived to the neurones of brain in conditions of stress of the child after birth or in adult. In the brain there is a code conversion, transformation of the codes in images, ideas, emotions. The brain in this situation carries out the very important role of acceptor and reformer.

It seems, that here it will be high time to recollect those scientists, who stated doubts that the neurone of brain are capable to produce ideas, and allocated to a brain a role of acceptor. Among them, neuro-physiologist Sir Ch. Sherrington (Great Britain) who received the Nobel Prize for researches of function of neurones, neuro-physiologist J. Eccles (Australia) who received the Nobel Prize for research of ion processes of excitement and checking in nervous cells.

The known American neuro-surgeon B. Penfield, who brought in serious contribution to the development of neuro-physiology, in his last book "The Secret of Consciousness" (1976) expressed doubt that the consciousness is a product of a brain and that it is possible to explain it in the terms of anatomy and physiology of cerebrum. He wrote: "The brain is similar to the computer, and the mind is similar to the programmer". The neuro-physiologist N. Bekhtereva (Russia) agreeing with idea, that the brain is not producer of ideas, but only its acceptor, believes, that it does not concern ideas connected to maintenance of biological needs of organism.

The psychiatrist and psychotherapist S. Grof (USA) on the basis of the numerous clinical researches with the help LSD and holotropic breath, which change a status of consciousness of the man, believes, that the brain does not produce an idea, just as the liver – the gall or the kidney – the urine. For the explanation of his thoughts he creates the interesting image: "Imagine that your TV has broken. You invite the foreman, who has twisted something somewhere, and you have had an opportunity again to see the images, and, rotating handles to switch from one station to another. The idea doesn't come to you that all these stations sit in this box ...". The psychologist D. Chamberlain (USA) investigating memory of birth has the similar point of view.

Speaking about the mechanisms of memory we would like especially to stop on the **solitons** (lonely waves). This phenomenon for the first time described J. Scott-Russell in 1834, observing the formation of a lonely wave on a surface of water of the channel near Edinburgh. He noted self-organization and exclusive stability of lonely waves. In subsequent the phenomenon of solitons was investigated in various areas of classical and quantum physics, and also in biology and medicine. In opinion of A. Davydov (18) solitons are ideal carriers of energy hydrolysis of molecules ATF along alpha-spiral protein molecules. The author, developing the concept of the active participation of solitons in vital activity of living cells, connects with its molecular mechanisms of muscles reduction, general anaesthesia, intracellular dynamics and influence of EM radiation on cells.

The study of the EM and acoustic fields DNA resulted in understanding that solitons as the special super-steady EM-acoustic waves can generate in DNA molecules (19). They read out the information, are its bearers, carriers and actively participate in an exchange of strategic regulatory information between cells, tissues, organs of bio-system.

Proceeding from this, genome of the highest organisms is considered as the solitonic bio-holographic computer, which forms spatial-temporary structure of developing embryos according to the images-predecessors. The last is possible only in the case if the solitons are active participating in the realization of processes of memory and are the stores of the semantic information (1). The authors believe that the solitons have the two interconnected types of memory: a) the actual memory itself, i.e. the ability to remember the initial modes of excitations and periodically "to come back" to them; and b) the memory, which connected to fundamental property of bio-systems to restore the whole from its part (so-called quasi-holographic or fractal memory). It is reveal itself, for example, by the grafting of plants, by the regeneration of extremities at tritons, the tail at the lizards, and also whole organism from ovum. In realization of the described processes on the DNA level most probably takes part not only solitone but also other kinds of memory – the holographic and the phantom memory (1).

Last years was experimentally shown, that the quantum properties are inherent not only to separate micro-particles, but to **ring flow** of such particles, as to a single unit, as to uniform physical system, though this system includes billions particles (20,21). By other words, the flow of micro-particles, radiating quantum of EM waves, bears with itself a

flow of the wave information, in which reflection uniform structure and /or complete process is found.

It is possible to believe that the arising of EM-acoustic "clouds" are connected not only with DNA, but also with other structural elements of organism including protein and water component. One of the factors organising solitons, probably, are the mother's emotional reactions. To confirm this serve saved by us and other authors supervision according to which the various displays of the peculiarities of character, habits, behaviour of the child connected with sharp emotional experiences, emotional "bursts" of the pregnant mother as the reactions to those or other events, ideas, pictures.

That is, the emotional-psychological reactions transformed by unique ability of the perception and reaction of each separate woman, on those or other external events or own ideas are the system-forming factor strengthening the wave activity of structural elements of an organism. These reactions provide sharp, instant emission EM waves, which are organized to the solitons. These EM-acoustic "clouds" contain in the coded kind of event, pictures, images, emotions, ideas. The appropriate elements (DNA, molecules of protein and water) of the unborn child have the ability to perceive this coded wave information, as the mother and the child are connected by one wave of range.

The child keeps the perceived coded information with the same structures at any stage of his development. The developing cells and their components transfer to the following generation of cells not only the specificity of their structure and the specialized functions, but also the "stored bank of memory of the coded data". After birth the child, and then adult use this "bank" constantly. "Key" to the opening "bank" and to the reception of the information serve the emotions, ideas, which arise in the process of interaction with the social and nature environment causing the stress status of the man.

Thus, the information interchange in system the mother-unborn child occurs not only to blood current on umbilical's vessels but also by wave interaction. This hypothesis corresponds to opinion of a number of the scientists (22,23,24) who supporting idea of the wave vibrations of a power field as mechanism of transfer of the information from the mother to the child.

The submitted picture of interrelation of the mother and her unborn child would be superficial if we have not considered other aspects.

4. Multiple-level principle of information interchange in system "mother-unborn child".

Last third of 20th century became the time of approach and mutual penetration of Western and East philosophies in questions on the essence of the man and his health. By result of this approach was comprehension and discussion of the **man's multiple-level structure**, which includes such levels, as: biological, energetic, astral (emotional), mental, soul, spiritual, others. Their frequency range is similar to frequency a range of a musical line (1). That is the distinctions between these levels consist of frequency characteristics of waves, which radiate by molecules of proteins and water, DNA and the chromosome device as a whole, cells and subcellular elements, tissues, and organs. The individual frequency originality, probably, supplied chemically and biologically active substances (BAS): as by semselves, and so by their interaction with molecules of water, proteins and other elements constantly arising and breaking up connections as a result of occurring exchange processes. Frequency characteristics within the limits of the certain range continuously vary depending on a level of vital activity of man, hormonal correlations, food components, displays of emotions, slumber and awakedness, work etc.

These levels show themselves not only during vital activity of the separately taken man, but also at his interaction with the natural and social environment - at contact with human beings alike. They are called for to ensure interaction of mother with her pre-nate.

We have made an attempt to consider the mother-unborn child relationships, proceeding from performances of *a permanently functioning multiple-level polyphonic system*. We assume that if the mother is a multiple-level system then in order to make their interrelationships intimate and fruitful it is necessary for the unborn to have the same level (beginning from zygote). We mean that this system represents a harmonious unity of different integral parts, which manifest themselves with different degree of intensity in certain periods of life. Reservation: the subdivision of this system into various levels is very relative since it is able to live and develop itself harmoniously **only** if all its components (integral parts) properly interact. Division of the system's levels could be justified only as a methodological aim.

Biological (somatic, physiological, biochemical, other) level of interaction between mother-unborn is generally acknowledged. Objects of the information at this level are the molecules of water, proteins, fats, carbohydrates, salts, hormones, others BAS, gases of blood (oxygen, other), brought in from the outside substances (products of smoking, drugs, alcohol, chemical connections). All of them are directed from the mother to the child and back (as products of an metabolism) through uterine-placental exchange pool, and also through the amniotic water and fetal membranes. Hence, the interaction at this level occurs by a way: a) of body contact, b) neuro-humoral, biochemical, data transfer of the information through blood driven on vessels of uterus, placenta, umbilical cord, c) through amniotic water and fetal membranes.

The energetic level ("a ethereal body") is connected to a wave status of structural elements of the organism of mother and child. At this level there is a carriage of the wave information from the mother to her child and back, and also exchange of the wave information between external environment and system "mother - child". It is an exchange can occur according to a principle non-locality (everywhere and for zero time). But can occur in frameworks of acupuncture system providing circulation of a wave flow and wave information communication of various structural elements of organism: cells, tissues, organs. A morphological basis of acupuncture system are intercellular slot-hole contacts .

This system of the information, in opinion of V.F. Mashansky (2), is more ancient in comparison with nervous one. According to the theory of wave medicine the quanta of energy on bio-energetic system deliver the information practically instantly (1). The presence of two ways of an exchange of the wave information at a energetic level corresponds to a principle of duplication of processes (one of the basic laws of functioning of biological systems), and allows to understand a variety of effects of interaction between mother and her unborn child.

The first scientific research proving existence of bio-energetic fields of zygote, have appeared in 40th years 20 centuries (3). The theory of wave medicine allows to state the assumption, that in a basis of an exchange of the thin wave information lies the interaction of energetic fields between the mother and pre-nate, beginning since zygote. Proceeding from this, it is possible to make the following assumptions:

1. As a result of oocyte and spermatozoon confluence, the zygote becomes a possessor not only of cell structure for self-reproduction, but it is also the owner of holographic energetical matrix (a long-term project for body construction), which (from higher energetic level) controls a cell division process and cell-space localization, providing space organization of organs and a human being as whole.
2. Resonance interaction between mother's and zygote's energetic fields maintains creative process in the zygote, simultaneously providing its transference into the fetus receptacle

and its implantation there, and only there, in the definite place (4). Later on, mother-unborn resonance interaction provides the formation, a maturing and synchronous functioning of organs and systems of an unborn.

3. The perceiving device of the mother is an acupuncture system formed by intercell slot-hole contacts (1,5). The high-frequency vibrations let out by zygote can be perceived by acupuncture system through biologically active zones located in area of fimbria and lengthways of epithelial layer of uterine pipe.

The acceptance of these assumptions allows to understand:

how the seemingly absolutely autonomous zygote of a microscopic size can inform the mother on its own appearance by seemingly disproportionately mighty impulses which are capable of immediately altering her female body biorhythms;

why the mother's system exceeding the zygote size in several hundred times possesses such a refined sensible organization that can respond to this action exerted by a microscopic zygote;

how the mother controls morpho-functional formation and engagement of certain organs and systems of the unborn child;

d) and, finally, this opens the way to elucidation why morpho-functional disorders in the mother may cause the dysfunction, the morphological impairment and even congenital malformation of the corresponding organ in her child according to the well known principle of disorder: organ to organ.

This interaction goes with use of various mechanisms. There is a probability of wave interaction between the mother and child as by a direct wave exchange between DNA, cells, organs, and with the help of mutual contact between two acupuncture systems, the channels of which connect various organs. The deformed wave information going from the illness organ of the mother, can result in development of defect or morpho-functional inferiority of the appropriate organ of the child or other organ connected with the same acupuncture channel.

The transfer of the deformed wave information from the mother to the child is one of the factors breaking his physical and mental health. We shall be repeated: it becomes a substantiation of necessity of the control above a status of an energetic field of the pregnant mother and its opportune correction.

The energetic level is an intermediate (organizing) part between biological and astral level having higher frequencies (1).

The **astral** level is connected to emotional life of the man. The morphological substratum regulating emotional state as is known, is limbic system, "a visceral brain" (6,7).

It is known that the change of an emotional status can occur under influence of *internal* processes of changing neuro- endocrine- metabolic situation in organism. The emotional status can be changed also under influence of *external* circumstances (social conditions, radiating background, electromagnetic radiators, etc.). The man is capable himself, by *strong-willed effort*, to change an emotional status and accordingly EM situation (for example, with the help of labor activity, various kinds of art, sports, etc.).

By strong-willed effort the man can not only change emotional and EM situation, but also direct it at own discretion. For example, it probably takes place in oriental combat sport con-fu, or by transfer bio-energetic information from the man to the man. It is possible to believe, that the emotional reactions of the man promote the formation of solitons or strengthen existing solitons.

At occurrence of pregnancy quite often at the woman has change her emotional status, that is shown in the appeared originality her perception of the colour, sound, taste, smell. It can specify switching of the information arrived in her acupuncture system on the sympathetic

centres connected with the astral level. That is the pregnancy, resulting to change of metabolic processes affects and on a astral level.

Above we have already mentioned about our research, at which the change of an emotional status of the pregnant woman immediately resulted in change of character of cardiac activity of prenat (8). These data were confirmed by the subsequent researches: at the increase of the mother's emotional stress the emotional anxiety at of the prenat grows, besides at both raises blood pressure and the cardiac rhythm changes (9). The authors explain this phenomenon by the fact that the mother and child are connected with each other by circulation system. We are inclined to explain it by another, a wave way of transfer of the information. And that is why.

Besides reactions of cardio-vascular system of the child in reply to change of an emotional status of the mother, other type of reaction - movement of the child is known. The observant mothers have noticed, that when they appear involved in the conflict with the husband or environmental, or when they watch film with the intense plot, or listen to rock music (i.e. at their sharp excitation and irritation), they receive from children sharp and painful kicks or impacts fist. Some women marked, that it occurred and in reply to mental reject of the child. At times it seems, that the child catches this idea, understands it and "revenge" mum for it, tries to protect itself.

From the position of concept, developed by us, it would be possible to explain such movements of the child by the following. In anger the man quite often shows behavior reaction as by kick of foot or impact by a hand to offender. Probably, it is connected with involving during excitation of motor zones of cortex of brain. If the man can not carry out this impellent act by virtue of well-brought-up or inaccessibility of the subject, he is compelled to constrain external display of this reaction, but its mental reproduction does not stop. As the attitudes of the mother and child are under construction on a principle "organ-to-organ", it is possible to believe, that it concerns also head brain with its zones. From here, the excitation of motor zones of cortex of mother's brain is accompanied by excitation of the appropriate areas of brain of the child. At the same time he still lacks, generated during education, "censor" braking impellent reaction and it is reproduced in reply to a pulse from the mother in exact conformity with recording in his genetic code.

That is, the mother's emotional excitation results in excitation of neurons of her brain, with primary involving the motor zones. It is accompanied by occurrence of a EM wave cloud such as a solitone, which frequency range coincides with a frequency range of the appropriate zones of child's brain. The wave excitation of similar areas and structures (neurons of a brain) child is accompanied by the movement reaction according to recording in genome. The frequency characteristics of EM waves bearing the coded information, probably, are connected with the level of emotional reaction of the mother.

Thus, the child's kick to the uterine wall can be considered as open display of the detained mental desires of mother, as an original exposure by the child of her latent emotions and aspiration. About the same explanation it would be possible to give to change of cardiac rhythm and increase of blood pressure at the child in reply to similar emotional reaction of the mother. We believe, that the described reactions are more complex and also are carried out with involving several levels regulating function of circulation system and includes direct wave contacts of cell structures and genome appropriate to regulatory systems of both groups of muscles of the mother and child.

The **mental** level has higher frequency by a range and is connected with consciousness and unconsciousness of the person, his(her) intelligence and instinct, his(her) concrete ideas and thinking. Psychologists, psychotherapists, psychoanalysts have received the numerous

certificates indicating a reality of subsidence in memory of the man of events, which took place in the period his intrauterine development.

From conversation with the mother (43 years old) of the daughter (21 years), who has come concerning the decision, to change her sex:

"With occurrence of pregnancy the husband began me periodically to beat and to warn: if to be born the girl, he will kill me, or at the best - will expel, but will not live with me. Of course, I would ask the God that the boy was born. I dreamed of the boy and even imagined, with what he will be. But the girl was born. The daughter played in childhood with the boys, has mastered a speciality of the driver car at the fabric. At her the girlfriend has appeared, on which she has decided to marry. I was with her at the psychiatrist, she was on inspection in branch of Regional psychiatric hospital. The psychiatrists do not find at her of any mental diseases. Why she has decided to change the sex on man's? I can not understand. Really because I dreamed to give birth to the boy? "

The story of the mother (64 years): In the age of 24 years at term of pregnancy 24 weeks I was on small kitchen, soaps of a hand and suddenly has seen in a mirror a flame, that blaze up above a gas cooker, behind of me. I was frightened, has felt heat in the field of a back, has cried, has called the mum, and we together have extinguished the begun fire. I was very much exited, the mum began to calm me, resulting as argument presence of the fireman depot near us. After birth at the daughter in the field of her back has appeared a birth-mark. Long time in childhood, when we passed by the fireman depot, she showed the increased interest to the firemen, at times demonstrated highest respect and tremor before them and simultaneously fear, sufficing for hands of the parents at the offer to approach to them more close. To one of the professionals in other areas at her the so distinct emotional attitude was not observed. Whether such attitude to fireman can be connected to a sequence that I outlived during pregnancy?

In subsequent the daughter (40 years) has added the mother's story. When she learned in a sixth class on one of lessons the teacher began to utter to one of the schoolboys, that if he badly studying he can become only fireman. Kitty, having heard it, has found out such burst of feelings, that now, at the moment of the story, it is terrible to her "even to recollect": she was captured with horror from injustice to the most courageous, clever and noble people. She has asked the sanctions to leave from a class and in a corridor bursted into tears for insult for these people. Recollecting about it some days after, Kitty could not explain to themselves, that with her was, why she so strongly experienced and cried, that at all it was peculiar.

The similar supervision constantly are an information occasion for study of a question about an opportunity of dialogue of the mother and pre-nate at an emotional-psychological level. The researches, which have been carried out in this direction, have opened problems of unwanted children, adopted children, sexual identification of the person, other. It has allowed to consider the problem of aggression and violence from the position of perinatal psychology and medicine.

Our research (10) were directed to the study of emotional-psychological features of 210 women with wanted and unwanted pregnancy. The results of research we have compared to the psychological features of unwanted children and adults (11,12,13,14), and also with symptoms of the patients with mental disorders (15).

Table 3.

**Psychological Characteristics
of women with unwanted pregnancy, and the unwanted children**

Women with unwanted pregnancy (Brekhman, Lapochkina 2000)	The unwanted children (Matejcek e.a. 1980; Zacharov 1994; Janus 1997; other)
<ul style="list-style-type: none"> - Emotional dissatisfaction with a situation wounding their proud. - An increased sensitivity to extrinsic irritants, - Infantile forms of interpersonal communications - Diffidence - High level of self-control with inclination to a lie. - Timidity, hypochondriac - Problems of social adaptability - Problems of interpersonal communications - An increased feeling of quilt passivity, bordering with masochism - Need of overcoming the restriction - Striving for getting rid of anxiety, masking it by marked certitude and independence - Emotional immaturity - Anxiety, distress - Depressive reaction 	<ul style="list-style-type: none"> - A lowered cheerfulness - A heightened touchiness - An elevated excitation - The absence of self-value (the possibility of retardation of a growing up process) - Diffident, not sure of their strength and abilities; highly dependent, coping boldly with school curricula, neither honest nor industrious as students, either unsociable or hyper-sociable - An abnormal want for recognition, frequent use of criminal ways of its realization (hence, antisocial tendencies). - Ill-disposed, hostile to other people's success and happiness - Indifferent, emotionally deaf - The absence of mutual understanding in communication with the wanted - Caustic, mordant, ironic - In their parentage keeping away from bringing up their children - Insufficient stress resistance - Nervousness, masked depression - Neuroses - Psychotic symptoms

As it is visible from tabl. 3, the emotional-psychological characteristics of the investigated persons in all groups had obvious concurrence. From the certain share of care we would like to state the assumption, that between these three groups exist a certain internal connection. It can specify that some forms mental disorders take the beginning in the prenatal period and are connected to transfer from the mother to the child of the negative information. It coincides with opinion of the psychologists and psychotherapists that unwanted children perceive from the mothers emotions and ideas of rejection. In the subsequent after birth under the influence of violent education this experience is transformed to ideas of destruction and self-destruction. In our opinion, it not should be necessarily connected to undesirability: the essential role here can be played the psychological features of the mother and father, which do not suspect that their emotions and ideas are perceived by the child, or they do not wish about it to know. In all it the absence attachment and bonding is very important. Certainly, anybody from the researchers does not assert that the child perceives these ideas expressed by words literally. The speech goes about transfer and perception of the information with the help of system of codes, which language is not known for us yet.

The clinical supervision show, that the bright emotional experiences of the mother increase probability of perception by the child of this information, that can result in occurrence of mental disorders at the child. So, the stress during pregnancy can break mental and motor development of the child within first eight months after birth (16). Strong stress (loss of the close man or works, the strong fright), transferred on 24-28th week of pregnancy, can result in development autism at the child (17). The given conclusion has the special importance if to take into account, that the previous researches of these authors were devoted to study of a role of the genetic factors in occurrence autism.

At the same time experts (18,19) state the idea, that by a gene of highest bio-systems, and separate of cell's nucleus are capable to generate and to distinguish text-figurative of regulatory structure with use of a background principle, holography and quantum non-locality. That is genome also is speech-like and logic, the chromosomes of separate cells can communicate among themselves in the "wave" language having certain similarity to human speech and figurative constructions. It becomes possible that various solitones - optical, acoustic and others, raised in poly-nucleotide, have wave ability "to read out" contextual RNA-sequence not only in parts, but also as a whole, transferring the information on significant distances. It has found experimental confirmation and has allowed the authors to state idea, that a genome as a whole and separate of cell's nucleus have ability to quasi-consciousness of a different level.

R. Gerber (1) believes, what the functioning of astral and mental levels leaves out of frameworks of the standard frequency range and addresses to the known Einstein's equation ($E=mc^2$), which allows to predict such energies, which extend speeds, exceeding speed of light. Such of energy have the magnito-electrical characteristics and negative entropy and can be referred to negative space - time. From a position of the theory Tiller-Einstein, theory of positive-negative space-time, there is an opportunity to explain influence of emotions and thoughts of the mother on the child and its instant, and at times it seems anticipatory, reaction to the latent ideas of the mother, her intuitive displays which have not been verbal.

Summarising all said above, we come to understanding that all levels of all human beings are in constant interaction (1), but in pregnant woman these levels additionally interact with the levels of the child (2) in whom there are his own levels, which interact between each other (3), and at the same time, they interact with the levels of mother (4).

Discussing a question of transfer and perception of the information, we shall note that according to modern performances of the development of languages and human speech, submits to the laws of formal genetics (18). According to P.P.Gariaev (20) a genome eucariote has wave languages similar to human languages. "Texts" DNA (quasi-speech) and literature of the people, their conversations (true speech) as a matter of fact carry out the same functions of management and regulation, though and in different "systems of coordinates". Already first experiments on translation of the verbal information of the man-operator to the genome of plants through solitone structures of an EM field of the special generator have shown that genome (DNA) of highest bio-systems distinguishes sign field structures synthesised by consciousness of the man and displayed in structures bearing solitone field (19). Thus the authors in vivo have registered not only adequacy to reaction of genome of plants on a semantic charge of codes, but also the invariance it in relation to language. They observe the presence of reaction of plants on semantic speech of the man made in Russian and English languages, and absence of reaction on nonsense.

Mentioned above also illustrates an idea that "texts" DNA and human speech are close, at least, concerning own fractal structures. In opinion of P.P. Gariaev (20), it can specify that anthropogenous EM "smog", around our planet, is dangerous owing to high probability of casual synthesis of EM analogues of "harmful" lexical structures used by wave genome of

inhabitants of the Earth. "The Earth planet is populated not only by alive essences, but also by thin information structure... The study of wave quasi-reasonable attributes of Genome of Highest Bio-systems... automatically results us and already partially has resulted in understanding of new potentially dangerous in global scales super-gene-language", - the author writes. He states the idea that the Earth's bio-sphere is range exobiological influences on a level of wave genes with speech-like structure, and sets a question: "In whose purposes?"

But what for to search for the enemy-malefactor outside our planet, if its inhabitants "villy-nilly" have introduced and continue to introduce to its informational layer of the negative terrible and self-destructive information, artificially destroying existing ecological balance. Considering interaction of two sub-systems of mother and her pre-nate it is necessary to mean their interaction with the external world,. Here it is represented pertinent to consider our ecological environment.

5. Violence against women - Violence against new generation of people

Aggression and violence probably existed at all times. Modern etology considers the aggression as display of an instinct, as style of the behaviour which has been written down in genes (1,2,3). By acknowledgement to this were the recent researches which have found out a gene Pet-1, which has appeared active in neurones of a brain producing one of the neurotransmitters - serotonin. At damage of this gene the defective neurones produce a little serotonin that is accompanied by strengthening of anxiety, aggression, impulse violence and depression at the people (4). The authors have proved that Pet-1 is necessary even at a embryo stage of development these neurones. Hence, in genome of the man and animals there are the genes supervising the anxiety and aggression, which in turn are the genetically inherited feature (5).

The etologists concern to aggression as to a necessary element in struggle for a survival, i.e. this is useful quality of all alive. Really, the struggle for existence have required from the primitive people to assert their interests and rule in the family, tribe, to struggle for the best piece of meat, for those boons, which seem to be significant to them. Besides, people were involved in the struggle for the house, for territory, on which they lived. With the development of mankind and civilisation this struggle has aggravated. The aggression began to involve increasing populations of people, whole peoples, communities, and states. Within centuries in various parts of the planet there were wars, revolutions, and various kinds of evil deeds were carried out. In one of the analytical institutes it was calculated, that in the history of mankind there were about 1600 serious wars and for only 392 years mankind lived in peace. But not only wars killed the lives of millions of people. Entertainment's, struggle for authority, and other, things at times illogical and absurd, killed thousands and thousands of people.

S. Grof (6) presents a brief list of such events and victims: arenas of Ancient Rome, auto-da-fe of medieval Inquisition, cruelty of Aztecs in Central America, Mongolian hordes of Gengiz Khan, the Great Alexander's campaigns, the spread of Islam and Christianity, Colonialism of Great Britain and other European countries, Napoleon's wars, and so on.

The development of civilization at the 20th century has not resulted in the reduction of violence, and its victims began to be estimated at tens of millions: the First and Second World wars, Nazi expansion and horrors of the Holocaust, Stalin's regime in Eastern Europe, civil terror in Communist China, South American dictatorship, Chinese genocide in Tibet, the Pol-Pots genocide, apartheid in South Africa, wars in Korea, Vietnam, in the Middle East, in Yugoslavia and Ruwanda, lots of terrorist acts and local wars in various countries.

The beginning of 21st century is marked by set of terror acts, local wars, threat of application the ominous (biological, chemical and nuclear) weapon of mass destruction of the people, occurrence of significant number of the terrorists-suicides, including the women- suicides.

Nowadays we are talking of the beginning of "the conflict of civilizations". No matter how we would like to call all these phenomena, the meaning is the same: mankind, seems to be incapable of living in peace, mankind continues to be at war: either for territories or for natural resources, for water, or "simply" for one rising above others. Violence can be caused by the necessity to obtain means of existence, and can be - is dictated "by insatiable greed" (S. Grof), or is undertaken for the sake of pleasure (sexual and/ or emotional).

Hence, aggression is a qualitative characteristic of all alive and, probably, is the genes information, which is found in individual or collective unconscious. And its complete elimination is impossible. It is possible to speak only about the decrease of the degree of aggression inherent in a given time, place and community. It is possible to speak only about the regulators of this process, that is factors which strengthen or weaken the display of these qualities.

First of all I want to speak about the factors strengthening aggression and violence. Among them, besides natural and socio-economic factors, a certain role is played by psychological factors. In this connection some speak that "mankind – warlike!"

But maybe, it would be fairer to call warlike only certain groups of mankind? Maybe, it would be fairer to speak about some individuals who generate ideas of aggression and violence who involve ever larger quantities of people to them, consciously or unconsciously resounding and perceiving these ideas. The leaders and dominants gather around themselves individuals whom actively or passively submit to them, and they in turn make the others obey even if the latter do not want it. Certainly, there is always a small number of people who don't perceive these ideas and do try to resist them. Bellicosity is inherent not only in people. But even if to admit that it is inherent in living things on Earth, only aggression of man is able to result in large-scale ecological accidents menacing the global civilization. That is why it seems logical to draw attention to those, who starts the global aggression – to *the man*.

Aggression and violence at the level of countries and peoples are certainly the display of an extreme degree of bellicosity, but its accumulation in the beginning occurs in small local communities named parties, religions, political trends, and also in criminal groups generated by aggressive individuals.

Hardly their ideas would be successful, if in a society enough of the people which have received "the lessons of violence" in family did not accumulated: as the observers and/ or are (more often) as the participants in a role attacking or victims. Not less important for the formation of aggressive features of the man is " the educational rate of violence " of the father in relation to the mother of child, parent(s) in relation to the child, including even to the *Unborn Child*. Let's consider this aspect in more detail.

The numerous research by psychologists, psychoanalysts, therapists established that the information received in the period of pregnancy by an unborn child, is fixed in his memory. This information in the combination with basic genetic information causes psychological and behavior of peculiarities of the child, teenager and adult. Scientists believe that the emotional experiences of unborn child depend on the emotional status of his/her mother. The latter, in its turn, is caused by psychological features, mutual relations with social environment: with her husband, relatives, colleagues etc., and also socio-economic events of life.

Positive thinking and the attitude to the unborn child on the part of the mother and other people become in the subsequent life a basis for blossoming of his talents and abilities as well as with his empathic attitude to the people surrounding him, and nature.

Unwanted children. If a mother sends some negative information, to her child, in particular, that he is not wanted, the psychological qualities, shown after birth, can complicate the life of an individual, restrict his relations in social environment, promote involving him into the conflicts of the greater or smaller degree. Unwanted people, besides various deviations in their health, demonstrate a lot of psychological features, which hinder their adaptation in society.

They often create conflicts, they are too sensitive, spiteful, they aspire to be distinguished, to draw attention to themselves which is their way of the self-establishment. They have a need for recognition, which is often reached in criminal ways therefore, they are likely to become a part of a hooligan, gang and even become their leaders (7). Unwanted children, having experienced hatred and rejection for the first time in the mother's womb, carry these feelings with in them and use them with various frequency and to various effects. They suffer from all this, and their families and society as a whole suffer as well.

If after birth parents reconsider their attitude to the child towards goodwill and love, these psychological tendencies are not shown so obviously. Though settled matrix of outcast can not correspond to the outlook of acceptance brought up during life,. It immerses the child/adult in a status of the not realized internal conflict expressed in discontent with himself, the environmental, unstable mood with propensity to depressive reactions. The presence of psychological discomfort quite often results in smoking, alcohol, and drug.

If after birth either mother or father, or both parents continue to reject the child, treat him severely, punish him physically, they raise a cruel child/adult, whose feelings of attachment and responsiveness are badly expressed, who is emotionally "blind" and "deaf" (8). Under appropriate conditions psychopathic features are found in such an individual and at times he turns to a serial killer and/ or the suicider (9,10,11,12).

Why do perinatal psychologists pay so much attention to unwanted children as an essential factor of the increased aggression in a human society? First of all, it is a quantitative aspect: every third child comes into this world unwanted (13). According to the statistical data of Health Department of USA in 1973-1988 - 35 % of children (5,8 million) were born unwanted, from them - 30 % - obviously unwanted, and 70 % - unplanned children.

Why are there so many children like that, while many reliable contraceptive are available? Really, mankind has entered the era of industrial planning of family with the help of wide application of contraceptives. However, just their use with the purpose of preventing conception is a special form of spiritual aggression against the child that hasn't even been conceived yet. In such an atmosphere the occurrence of pregnancy is perceived with special negativism and set of feelings on the part of woman: disappointment, insult, awkwardness, humbleness, constraint, aggression, anger, and, eventually she makes a decision to interrupt pregnancy.

But unwanted children now can be removed with the help of abortions, which are legalised in the majority of countries of the world. Really, the number of abortions in different countries is exceeds the frequency of births by 2-3 times. The wide practice of planning a family with the help of interruption of pregnancy has made abortions an *ordinary event* in the lives of people in certain communities, and the idea of an abortion – an *ordinary idea*. It does not cause any protest in a community but it is a component of the atmosphere of outcast, humiliation, aggression and even violence against an unborn child.

Under these conditions a conceived child quite often receives his own first experience as an outcast. It can be added to the already possessed experience of being an outcast of one or both parents and which was already stored in the genes of both parents and the child who has already managed to get it from them. Their experience is enhanced, and therefore primary trauma - fear for their lives - is kept in genetic memory of those whose parents have decided to keep them. If mothers / parents make a final decision to continue the pregnancy and change the emotions of rejection to acceptance, the received trauma is kept, but is blocked by positive emotions, which to a certain extent may force out and suppress the experience of having been an outcast.

If pregnancy is kept together with the negative attitude to the child, he continues to receive lessons of rejection and carries them away in his memory after birth. There is a certain number of children who have survived after unsuccessful attempts by mothers to interrupt pregnancy. These children have the most serious psychological problems: depression, slow mental development, difficulties of interaction in social environment, propensity to aggressive thinking and action (10). As PG Ney writes (14), "With widespread abortion on demand we are dealing with a potentially species-lethal, ecological change." We must carefully study the full and far-reaching implications. He says, that we need begin with a careful analysis of abortion survivors, keeping in mind the future, when these descendants will receive authority, and will decide questions of life and death of the senior generation and those who should come into this world.

Violence against women. A special public attention is given to violence against women. The present burst of violence against women and their neglect are unprecedented. Minimum one of five women during their life time was exposed to physical or sexual violence on the part of the man (WHO Department, 1997). According to the data of World Bank, sexual violence is accompanied by such the death rate and bad health of these women between the ages of 15-44 years. Violence against women is worse than the occurrence of cancer of exceeds death from malaria and road accidents combined (World Bank, 1993).

The global character of violence against women over the last few years has become an object of steadfast attention. WHO, American Medical Association, International Federation of obstetrician-gynaecologists and other professional medical organisations have announced that violence against women is harmful not only for the health of women, but for the rest of the population.

This problem has started to draw attention of the UN. So, in 1993 at the session of the General Assembly UN one of the most all-round international political memorandums on violence was accepted: "The Declaration against Violence against Women". Later, the same year, UN issued the first Global message on Violence and Health devoted to the violence against women by their intimate partners. In 1996 the Fund of Development for the Women UN (UNIFEM) created trust fund to ensure a direct support of hundreds of projects of female development and the maintenance of realization of their opportunities all over the world. In 1999 UN announced November 25 the International Day of Elimination of Violence against Women. In October 2001 the University Centre of the Programs of Communication of Johns Hopkins opened a web site on the Internet named "The End of Violence against Women". The subject "Violence against Women" has become the subject of many conferences, publications, discussions.

These actions, first of all the protest against serious infringement of the human rights of women, are the attempt to eliminate the reasons for traumas and risk factors of numerous physical and psychological problems of women's health.

Violence against women and a new generation of the people. However, there is one more position, which is not discussed directly, and at times is not even thought of, which is the care of the future generation of people, who will be conceived and delivered by the women exposed to violence. The meaning of violence against women is not only that they as people, as individuals are exposed to violence, which in itself causes a rough protest; not only that violence causes deterioration of their mental and physical health, which can cause concern of society. The meaning of this violence is that these are women and not men who bear a new generation; these are women who with their ideas and emotions influence mental and physical health of a new generation. A humiliated, depressed, embittered, intimidated woman is not able to bear a cheerful, optimistic, kind and benevolent, self-confident man.

Scientists, who are working in the area of prenatal and perinatal psychology and medicine, has shown that a new generation (a child, and then an adult) bears in oneself matrixes of experiences of his mother. It can be some experiences of a mother in connection to the events, in which she was involved (voluntarily or involuntarily) during the whole period of pregnancy and delivery. It can be the ideas and feelings of the mother produced by herself due to her psychological peculiarities (mistrust, uneasiness, infantile, anxiety, and others). It can be the experiences restored by the woman mentally, images and emotions taken not only from her conscious memory, but also from her unconscious memory. This situation makes important any acts of violence experienced by the woman during her lifetime, since the intrauterine period.

In the Journal 'The Lancet' in 2002 a series of papers devoted to a problem of violence against women was published. Below we shall take advantage of survey paper Charlotte Watts a. Cathy Zimmerman (15), and reviews of other authors (43) as by an outline for the comment that to discuss value of violence against women from a position of prenatal psychology.

In a number of countries there is a tendency to artificially restrict the birth rate of girls. Not accidentally in such countries as China, Taiwan, Southern Korea, India, Pakistan, some countries of Africa there are more men than women (16). It is believed that it is caused by sexually selective abortions (15). A high opportunity of ultrasonic diagnostics of the sex of a child at pregnancy has facilitated an early removal of fetuses of a female, and actually of infanticide of an unborn child. In Southern Korea in 1990 there was a significant difference in the parity at birth: 117,2 boys on to 100 girls. And this difference in the sex correlation was increased: For the third of children it already was 185 boys to 100 girls (17). By various ratings in the world approximately from 60 up to 100 million girls and women are "missing". This situation is the result of a selective abortion, a deliberate murder of girls just after birth, a neglective attitude to the girls, their health and feeding after birth, which is accompanied by a high mortality among the girls younger than four years old, for example, in India. Not accidentally in this country according to the data census of 1991 there were only 929 girl and women to 1000 boys and men and their "missing" is estimated by 22-37 million (18,19).

However, these facts lack emotions, and maybe it is worth while considering a mother with her feelings. On the one hand, in the described atmosphere, when the woman aspires to please her husband and his family, bitterness of women is created. The point is that for such women it is very important not only the occurrence of pregnancy, but pregnancy by the child "of the necessary sex". The significant social motives, customs and traditions, form aggressive thinking in relation to the close relatives including unborn child.

On the other hand, is she always bitter, is she always happy when she is compelled to kill her baby, which was conceived by her and had developed in her womb? Does she

always do it voluntarily? Does she manage to erase in her memory the emotions and thoughts that accompanied the process of killing her child? Won't they appear again during the next pregnancy, which will start for her with the questions: "A boy or a girl? Will it be given the right to live or will it be killed?" Mother is playing of a murderer of her own child, of all her unborn children, still helpless, for whom she is the main and the closest defender!.. She is going to kill her child, whose only fault is that her sex doesn't correspond to her parents' expectations.

And here I cannot help asking another question: Isn't it a perversion of the instinct to prolong life on Earth given to a woman by nature? Aren't people bringing the destructive information into genes? Aren't we witnessing the formation of a generation of mothers with matrixes of cruelty, misanthropes, hating themselves and others, murderers and suiciders ready to destroy not only themselves, but also the Planet as whole?

A born girl (if she was given the opportunity to be born) or a baby-girl who survived the abortion, becomes a bearer of fear of death, which she managed to experience. It is also possible that the baby-girl will keep the memory of her mother's feeling guilty by enabling the girl to be born and the mother's rejecting of the girl. But the tragedy amplifies, if these feelings are kept in the parents after the birth of their child, if the born child is neglected, rejected, if she is treated with aggression and violence. And then there is a formation of a girl - a future mother whose way of thinking is already negative and in whose negative feelings there will be formed a new person.

Modern philosophy and technology birthcare. Here we want to briefly (though on the importance of it deserves the special discussion) to mention modern philosophy and technology birthcare and those who carry it out. The professionals mark, that today's obstetrics is excessively aggressive and quite often supports women's anxiety and fear after and during the labors, strengthening experiences and painful sensation. Rejection, neglect, verbal and physical violence, if the personnel are carried out it even with good intentions, reserve the heavy memories in the subsequent life not only in the mother, but also in the child (10,20,21).

Highly technical research and obstetrical procedures, manipulations and others of interventions render adverse influence on the pregnant woman and her baby, unborn or newborn, result in an inhumane process of pregnancy and delivery, robbed of individuality, and sometimes even put directly in harm. T. Verny (9) considers, that the application of such interventions should be limited to small number of women with a high clinical risk to pregnancy. The same concerns the excessive use of anesthesia and analgesia that some authors name "as obstetrics anesthetic violence"(22).

The special mention is to be made of premies – babies born with low and extremely low birthweight. As writes P. Ingalls (23), the life of premies from the moment of birth and further is filled by intensive traumatic stress connected to physical, emotional and mental influence. These children are kept for a long time on respiratory devices with tubes entered through the nose or throat. The mix is quite often a high concentration of oxygen. They are fed intravenous or by a damage tube in their stomach. They are exposed to medical emergency procedures, surgeries, tests, transfusions, and toxic medications, and so on. While in intensive care, they experience many death threats. This complex of influences (or its separate elements) can result in are cerebral palsy, organ damage, retinopathy, etc., and in subsequently - developmental delays, motor, speech, cognitive, and behavioral problem to varying degrees.

The prenatal journey (pregnancy) and perinatal events (labor) are quite often accompanied by violence to the child. The modern technological birthcare does not protect the child at all, and at times, on the contrary, promotes display of aggression and violence (24,25).

Although, as a rule, it is made with good intentions, there is no guarantee that the child is capable with gratitude to estimate all these efforts, and that the impressions in his memory will not be reflected on emotional, behavioral, and cognitive development.

The sexual violence against women. From the age of 10-13 years old the girls have the risk becoming sexually active, and, as a rule, this beginning is accompanied by violence (15,26,27). It is necessary to say, that it can leave an indelible trace in the memory of a future mother. This first experience can be supported by numerous, and at times regular sexual violence to the girls.

Compulsory prostitution is not something extraordinary, it is supplemented by trade in women, exploitation of their work, debt fetters, making the woman completely dependent on a man. It is necessary to keep in mind such elements of violence as deceit, cheating, lying, which painfully hurt the feelings of dignity of a woman, and cause in her the appropriate ideas, emotions and reactions. Since as a rule, they are compelled to control themselves, these emotions can subside in memory, changing a mental status of a woman, reducing her cheerfulness, creating conditions for the occurrence of neurotic reactions, and depression. Simultaneously in the women inclined to the occurrence of psychosomatic reactions as the increase of the blood pressure, spasm of vessels and/or of various sections of gastrointestinal canal. Later, as the research show (28), they develop different somatic, and to be more correct the psychosomatic diseases. Psychological discomfort, which appears in the women, results in smoking, drinking, using drugs (29). The occurrence of these bad habits indicates a woman's psychological stress. Moreover, in my opinion there is a connection between smoking of the mother during her pregnancy and antisocial behaviour, criminality, hyperactivity and frequency of criminal arrests of their adult offsprings (29).

But now I would like to come back to the discussion of the psychology of female prostitutes. Probably, it would be incorrect to consider female prostitution exclusively as compulsory, as some of them choose this profession of their own free will or maybe due to some of their psychological peculiarities, or for economic reasons. However, it is necessary to keep in mind, that this trade has the expressed risk not only in catching diseases transmitted in a sexual way, but also the violence (30). Being engaged in prostitution, a woman remains a woman from the point of view of the presence her parental instinct. Though not all, but most likely, many prostitutes aspire to have a house, family, children. Is it possible to assert, that all those feelings, sufferings and pictures, experienced by her and all the dreadful situation she participated in, will not emerge and continue emerging periodically during her pregnancy? Also that she will not "irrigate" the emotional world and memory of her unborn child with these feelings? M. Irving (31) in process of psychotherapy of the clients has found out, that sexual violence similarly a trauma of birth: physical, emotional and environmental influences form the similar symptoms, feelings and vital patterns.

Domestic violence. Another kind of violence is domestic violence when a woman is exposed to a mental and physical attack, violence on the part of the husband or intimate partner. It can be verbal abuse, all kinds of humiliations and it can be combined with physical violence. Violence can be experienced by no matter what status a woman belongs to: a pregnant future mother, a non-pregnant woman or a mother can be abused (32,33,34,35).

Violence against pregnant women. Pregnancy is not always is a status protecting a woman from violence. Sometimes absolutely on the contrary. It is known, that at the occurrence of pregnancy a man's psychological status also changes, it can be very

benevolent, it can be expressed in the increased attention to his wife, care of the child, and about the future material well-being. But at times, the occurrence of pregnancy causes in the men chronic discomfort, anger, irritation, it makes them aggressive, they attack the women, beat and rape them, kick them in the breast and stomach. Such physical and mental attacks on pregnant women result in the occurrence of various complications during pregnancy, such as threat to and a real interruption of pregnancy, gestosis, unregular activity of uterus at pregnancy with deterioration of circulation in the child and delay of his development, and eventually various complications during labor, and problems of breastfeeding (36,37,38,39,40,41).

But what is even more important the information is transferring to the unborn child. Woman being abused at pregnancy causes negative feelings towards her husband. But at the same time a woman's attitude to her child can be ambiguous as well: from aspiration to protect him to the anger and even rejection, because he, her child, appears to be the reason for her sufferings and pain, for her bad relationship with her husband. The unborn child receives sad experience, which he will take away with himself in adult life.

The domestic violence against the pregnant woman creates around unborn child a negative environment. In his infancy and childhood it is expressed by the emotional and behaviour frustrations, and in mature age it can be shown also as both criminal and violent behaviour and suicides (42).

Private experience. I repeatedly came across in my clinical practice death of the unborn child in utero as a result of acute and deep sufferings of the mother in connection to the tragic events that she experienced.

For example, I observed the death of the unborn child, at the age of 38 weeks from conception as a result of a fright of his mother, when her relative who recently came back from prison, being drunk broke into her apartment and threatened to kill her. The next morning, she found out, that the child had ceased to move. He was born dead.

Another woman being pregnant for 36 weeks has received the news that her sexual partner is going to marry another woman. In a state of emotional distress she unexpectedly experienced a strong fright from a loud shout made by a passing man. Some hours later she has noticed her child was motionless. An urgent sectia cesarea was done because the doctors suspected a premature separation of placenta at pregnancy. The child was born dead. The separation of placenta didn't prove to be true.

I observed the abnormal, prolonged labor of some women after a serious conflict with their husbands or close relatives. During the labor we found out hypoxia of the unborn children and heavy asphyxia of the new-born children. Their resuscitation was difficult, sometimes these children died just after their birth.

Our psychological research, supplemented by art-diagnostics, frequently found out in pregnant women serious mental traumas that they experienced in the past, that at times continued to be relevant during pregnancy. Some women refused to discuss the contents of these traumas. They were afraid, that they would suffer again. The pictures they drew evidently reflected the traumas that were kept in their memories. Sometimes these traumas were connected to their births. On our request they asked their mothers to specify the circumstances of their own birth. As a rule, the mothers told about heavy, prolonged deliveries, sometimes with the help of surgical intervention. Our research confirm the idea that the women experienced their own difficult birth. Subsequent they had complicated labor at the births of their own children. Some women drew symbolic pictures reflecting the verbal, sexual and/or physical violence experienced by them. These women demonstrated the increased level of anxiety.

But what is even more important, is transfer of the information to the unborn child. Being abused at pregnancy causes negative feelings in a woman towards her husband. But at the same time a woman's attitude to her child can be ambiguous as well: from aspiration to protect him to anger and even rejection, because he, her child, appears to be the reason for her sufferings and pain, for her bad relationship with her husband. The unborn child receives sad experience, which he will take with him into his adult life.

Violence against women - mothers which is carried out before the children's eyes forms in them the concept, that violence is a normal behaviour in the family and community. In such children there can be observed a favourable attitude towards violence, or they can even make use of such a behaviour in their future lives including their family lives. So, social environment in which violence is socially accepted is gradually formed. (28).

Philosophy of violence and woman-mother. As the research which have been carried out at different time and world-wide, shows in a young girl's genes even before she gets pregnant there is already fear of violence and abuse, which is inherited by her children in their own turn. Thus, this philosophy becomes basic of her thinking and behaviour. This philosophy causes the appearance of a new generation of people inclined to aggression and violence or at least to tolerating them. Very few people manage to avoid this or trauma during pregnancy and birth.

Summary. In this section we wanted even briefly show that "smog" of violence, which exists on our Planet. Here pertinently to remind properties of the information: to be kept, to be multiplied and to be distributed. Unfortunately, last years the information in many respects carries negative character. Modern mass media, Internet, TV, radio, newspapers, magazines are promoted its fast and wide circulation. Primary and selective use of plots of horrors and violence in telecasts, movies and video-films corresponds to searches of the majority of the consumers of this information. Numerous recurrence of plots of violence on various channels a little whom leaves not informed and simultaneously convinces many of universal distribution of violence.

This informative-wave "fog" shrouds us and irrespective of our desire enters into our feelings, emotion, idea. It surrounds the potential parents and can appear in genes of sexual cells. It surrounds "the pregnant parents" and with their help directs the information on violence to the unborn child. It surrounds the newborn and growing child, forming his thinking and behaviour.

We have given here primary attention to violence against the women, which with their psychological features or under influence of external circumstances, to be exact of people creating these circumstances, can strengthen or weaken the generically due qualities of character of the child and to introduce to him new positive or negative properties.

But unless the generically caused qualities of character of the child are connected only to the psychological information stored in genes of mother's ovum? Whether it is possible to itself to present, that the father's sexual cells also bearing a genetic material, do not include the information on his psychological features? And in such case unless the violence, widely distributed in the world, does not mention genes and other components of sexual cells of the men?

And still. Unless other women born the men? Unless the boys do not receive the same information from the mother, as girl? Unless they are not exposed to violence before and after birth? Unless they do not test feeling of fear, anxieties, indignation, aggression in relation to offenders? These emotional experiences, probably, are kept not only in somatic, but also in sexual cells of the man. We state this idea as a hypothesis and hope it will become the evidences.

Conclusion

The numerous scientific researches last 30 years have allowed to formulate new paradigm in obstetrics and embryology (Tab. 1). Three main opening have found reflection in it:

1. Presence at the unborn child of emotional - psychological perception.
2. The memory presence at the unborn child.
3. Presence of emotional-psychological interaction between the mother and her unborn child.

At the conception the child received genetic information about morphological structure and psychological peculiarities his parents. Alongside with this the child has an opportunity to accumulate his own impressions. They include his mother's emotional reactions on events, on images, and on the pictures experienced by the child together with her mother.

These opening have allowed to understand, why the child, and then adult has the certain style of thinking, emotional reactions and behaviour. They have shown sources of giftedness and talents of the child. They have found out sources of various psychological, sexual, psychosomatic problems, violence and insatiable greed.

This opening have determined a new circle of urgent questions:

- What mechanisms of interaction between the mother and her unborn child?
- What are ways of this interaction?
- What are mechanisms of memory?
- Where the received information is kept?
- What mechanisms of its extraction, restoration?

It is well known the umbilical way of interrelation between the mother and the child. We know the participation of water, protein, neuropeptides, other biological active substances (BAS) take place in realization of interaction between the mother and the child, including emotional. However they do not explain instant reactions of the child and his ability to fix events and images. The participation in it of a flow of amnion waters hardly can explain these phenomenon.

The attraction of rules of quantum physics, quantum mechanics makes the decision of these tasks more real. Acceptance of a rule about a duality of structural elements of organism (waters, protein, DNA) has allowed to put forward **a hypothesis**, which is taking into account the quantum mechanisms of development and functioning of the man from the moment of conception, wave interaction between the mother and the unborn child.

The given conception assumes transition from **new to super-new paradigm** in the prenatal psychology, embryology, obstetrics. Its basic rules consist in the following.

Sperm and ovum being by protein-water structures and containing DNA have **EM activity** bearing the wave information. It provides process **electromagnetic taxis**, due to which the man's and female sexual cells direct to each other, and find each other. Duplicating mechanisms are the processes of chemotaxis and thermotaxis (1,2).

The bio-resonant effect arising at the moment of meeting sperm and ovum is the starting mechanism for inclusion and / or strengthening of activity of their ferment systems providing penetration of the head of sperm together with the genetic material through the ovum's membrane (3).

Zygote becomes a new resonant mass generating **EM waves** already on its own frequency. With occurrence of zygote the EM situation is changed: there are two energo-informative subsystems taking place in synergism and incorporated by one range of frequencies. Zygote immediately directs to the mother her own wave information, affecting on her regulatory system, changing biorhythms, level of metabolic processes, emotions and

mentality. That is, the interrelation and interaction of the mother and child is carried out not only by **substance** mechanisms **but by the wave** mechanisms.

The process of maturing of structure of cells, tissues, organs of the child, as well as process of inclusion of their functions, are under the **wave** control of the appropriate cells, tissues, organs of the mother. The mother, carrying out such control, in turn, submits to the wave information going from the child, changes the character of functioning of the cells, tissues, organs, organism in whole for maintenance of his requirements.

The emotional perception, functioning of memory (and it is possible also of consciousness) of the unborn child begin with the beginning of the prenatal period, long before complete maturing of the brain. **The wave principle** of generation, carry, perception of the information makes possible the instant reaction of the child, and inclusion of impressions about events of the prenatal period in memory of genes and cells of the child, despite lacking of complete myelination of nervous fibres.

The emotional - psychological interaction between the mother and child, since the moment conception, forms attachment and bonding. In the basis of bonding lays first of all **the wave interaction**, which provides close intuitive communication of the mother and child. As a result of this interaction the child receives the information about ideas, habits, style of behaviour of the mother, about most emotionally experienced events. The mother in an ideal changes her thinking, emotional reactions, behaviour, subordinating their to the needs of the child.

The unborn child has ability to perceive and to remember the wave information. Its receivers are served DNA, protein and water of cells of a body and neurons of a brain of the child.

The **solitones** play the special role in transfer to the child of the information. These special super-steady EM-acoustic waves are formed by molecules DNA, molecules of proteins and water of the mother (4,5,6). The strong emotional mother's experiences, her emotional reactions to occurring events, on her ideas promote formation of **the wave information as the "solitone cloud"**. The solitone-holographic wave information, acting from the mother, promotes the imprint in memory of molecules DNA, water, proteins of unborn child of current events, images, pictures. After birth, this information is shown by unusual style of thinking and behaviour, by strange inexplicable habits, by inadequate emotional reactions such as unguided fury, anger, and increased aggression at the child, teenager, adult.

The emotional reactions, ideas of the growing child, then of adult man, probably, are the key to the extraction of the information kept in the cells of organism. The brain has an unique ability of **transformation** of the received coded wave information from the cells of the body and neurones on the language, which is clear to the man.

We have risked to state the given concept based on the indirect data, with the unique purpose: to stimulate realization of researches directed on the study of wave interaction of the mother and her unborn child. It is represented to us extremely urgent, as the wave theory opens prospects of the decision of the important theoretical and practical aspects.

The theoretical aspects

- Impulse to the further development of the theory of the information in biological systems.
- New understanding of processes embryo-genesis, which are carried out with the help and under the control of wave regulation.
- New understanding of processes of interaction of the mother and the unborn child, at which is carried out the wave control both of formation and development of cells and organs.
- New understanding of mechanisms of information interchange, including mental, between the mother and the unborn child.

- Understanding of ways, on which is carried out information interchange in system the mother-unborn child, and wider system: a social-natural environment - mother – the unborn child.
- Understanding of unusual displays in thinking and behaviour of the individual are not received up to this time a convincing enough explanation.
- Understanding of one of conditions regulating a level of aggression and violence, both at the separate individual, and at the groups of the persons plunging mankind in regional, and at times global conflicts.

Practical aspects

- Substantiation and the development of the programs on display, and is possible also to strengthening the genetic due giftedness of the child up to birth.
- Substantiation and development of measures under the prevention of perinatal traumas, and, hence, to preventive maintenance of psychological problems of the person, disorders of somatic health.
- Substantiation of methods of psychotherapy, directed on elimination of perinatal traumas.
- Substantiation of the strategic program on decrease of a level of aggression and violence in a society.

Thus, the wave theory expands our performances about the mechanisms and ways of information interchange between the mother and her unborn child. It allows a message the proved work on protection of mental and physical health of the unborn child, and consequently new generation of the people. It allows from some other positions to consider sources of the increased aggression and violence, and enables to develop the strategic plan of decrease of their level, both in family, and in a society as a whole.

Hardly probable it is necessary to expect immediate effect as reduction of aggression and violence in a society from realisation of such program. The results will begin to effect in process of accumulation in a society of new generation of the people. However creation and realisation of such social program within the framework of each state should begin immediately. I hope that our strategic wisdom will have an effect.