

The Conception of the Wave Multiple-Level Interaction Between the Mother and Her Unborn Child

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Abstract: Author discuss the opportunity of the wave interaction between the mother and her unborn child at the biological, energetical, emotional, mental levels.

Zusammenfassung: *Die Konzeption des Mehr-Ebenen-Austausches zwischen der Mutter und ihrem ungeborenen Kind.* Der Autor diskutiert die Möglichkeiten des interaktiven Austausches zwischen der Mutter und ihrem ungeborenen Kind auf biologischer, energetischer, emotionaler und mentaler Ebene.

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Nowadays a lot of data obtained have confirmed the hypothesis, that psychoemotional interrelationships between the mother and her unborn child is the reality. However, current studies contain little data on the WAYS of the mother-unborn interrelationships (Verny and Weintraub, 1992). In our opinion, prenatal psychology has approached the new stage of its development, which is to elucidate the following actual problems: 1. How is the transmission of the information from the mother to her child and back realized? 2. How are the data obtained by the child imprinted in his/her memory and manifested throughout his/her life?

The answers to these questions will give an impulse for transition to the next stage, namely, that of scientific substantiation of negative after-effects prophylaxis; negative data elimination out of the unborn child's memory in proper time; negative information deriving from a grown-up individual's memory by the therapist (or by other) for its further transforming. The unsolved problems dealing with mechanisms of mother-unborn data exchange are connected with methodological difficulties. On the other hand, they remain unsolved due to the absence of a working conception determining possible directions of investigations on the mechanisms mentioned above. I have dared to share my hypothesis and would

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like to invite experts to discuss one of the possible trends dealing with exploring the ways of mother-unborn child data exchange.

According to some current ideas the human organism includes the following levels: elementary, atomic, molecular, sub-cellular, cellular, tissue, organ, systemic, regulatory, organism, cortical ones.

An elementary level is represented by electron and other elementary particles of an atom. The electron has a charge and in its interaction with other electrons forms electronic layers-orbits around the atomic nucleus. Any changes in energetic level alter essentially the atom's condition itself. And, these changes in the atom's energy lead to destabilization of electron shells. Under the influence of some external and internal factors there may be a loss of an atom's electron or an addition of one more electron. This process is followed by irradiation of an energy quantum in the form of waves.

According to the Einstein's paradigm ($E = mc^2$) the matter at one and the same time may be in the state of being both a particle and a wave, a substance and energy. Similar to the light, the substance has certain frequency characteristics. The higher the frequency of the wave the less the density of the substance. In other words, the thinner the latter is. It would be suggested that this may be the characteristic of the nature human beings as well. Basically speaking, a human being in the process of their activities constantly irradiates quanta of energy in the form of a wave. Most of these waves still cannot be detected because the devices, which could detect them have not been developed yet. But, people already have started to dialogue and are becoming more aware of the fact that we neither begin with nor end with just our physical body.

These concepts have led to the discussion and comprehension of a multiple-level human structure embracing biological (physiological, biochemical, etc.), energetic, astral (emotional), mental, soul, spiritual and other levels. The differences between these levels are perceptible because of their various specific frequencies.

These levels of human structure reveal themselves not only throughout the individual's life activities but also by interaction with the environment, nature and society and contiguity with other human beings including the mother-unborn child relationships. The latter is supposed to be the most intimate and fruitful. And the result of this interaction is that of: 1. providing realization of genetic program for the child; 2. protecting this program against distortion by external and internal circumstances, and 3. simultaneously, adding it with own pre- and perinatal program.

Our attempt to examine the mother-unborn child relationships is based on the idea 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. The subdivision of this system into various levels is very relative since it is able to live and develop harmoniously only if all its components (integral parts) properly interact. The isolation of the system's levels could be justified only as a methodological technique for their analysis.

A biological (somatic, physiological, biochemical, etc.) level of the interaction between mother-unborn is generally acknowledged. The interaction on this level due to body contact, neuro-humoral data transfer via the blood, circulating through the vessels of the uterus, placenta, umbilical cord, fetal membranes and so on.

An energetic level of human is being studied intensively nowadays, new devices for the evaluation of the biofield of an organ and the human as a whole have been developed (BEO GDV-camera which works the principle of the Kirlian's effect, apparatuses of Foll and others).

In medicine, the Einstein's paradigm was an impetus to the development of the vibration medicine theory (Gerber). It allowed us to suggest that the wave interaction of energetic fields between the mother and unborn (beginning from zygote) is implied as the basis of refined data exchange. Thus, we can assume the following:

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 for a human being.
2. Resonance interaction between mother's and zygote's energetic fields maintains this process in the zygote, simultaneously providing its transference into the fetus receptacle and its implantation there. Later on, mother-unborn resonance interaction provides the formation, a maturing and synchronous functioning of organs and systems of unborn and remain with him/her throughout life.

Our assumption enables us to understand:

- a) 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;
- b) why exceeding the zygote in size several hundred times the mother's system possesses such a refined sensible organization that can respond to this action exerted by a microscopic zygote;
- c) how does the mother control morphofunctional formation and engagement of certain organs and systems of the unborn child;
- d) and, finally, to open the way to elucidation why morphofunctional 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.

The astral level is connected with the emotional life of the human being. Alterations in pregnant woman's emotional perception of the world around her, namely, in her sound, colour, taste, smell perception are well known.

The mental level bears person's consciousness and unconsciousness, thoughts and ideas, instinct and intellect (by Tiller). The psychotherapists and psychologists have received an evidence about the interaction between mother and her

unborn on these levels by the investigations psychical and emotional peculiarities of unwanted children, adopted children, the subjects with sexual deviations.

We have focused our investigation on pregnant women's astral and mental levels using the methods of psychological research: Lusher, MMPI, Zondy, Spilberger, Eisenck's tests. We examined 210 women aged from 18 to 30 years. 87 women with an unwanted pregnancy who were admitted to the hospital for an abortion in the first trimester of gestation (48 women); and, in the second trimester of gestation (39 women), were included in the examined group; 103 women with wanted pregnancy evaluated in the first, second and third trimester of gestation, were enrolled into a control group. Into the group of comparison we included 20 healthy non-pregnant women.

Our investigation have revealed in the women with unwanted pregnancy such psychological peculiarities as emotional dissatisfaction, anxiety, distress, depressive reaction, other (Table 1). It coincides to great extent with psychological and emotional peculiarities of unwanted children reported by Matejcek et al. (1980), Zacharov (1994), Janus (1997) and others.

I trust that the readers understands me: these are summary data and each human being has his/her own set of characteristics and his/her individual menu of responses. I propose that a mother's contact with her unborn on astral and mental levels is followed by transmission of emotions and thoughts to the child. In addition: I'd like to point out that our investigations demonstrate that the life events are imprinted in human memory if they are accompanied by strong emotional reaction.

These data confirm psychologists' opinions that the unwanted children acquire these qualities and imprint them into their own memory. These psychological characteristics accompany these children during their lives determining their mode of thinking and behavior.

As I have already proposed, all levels of all human beings are in constant interaction (1), but in pregnant women 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 the mother (4). These four points are kept in mind when we carrying out our investigations.

Our findings have confirmed the presence of unborn child's feedback response associated with his mother's thoughts and emotions. During cardiocographic evaluation (Fig. 1) we stimulate the mother either by means of a talk or by her unborn child's heart beat sounds, or by music, etc. The character of the heart beats was changing depending on the mother's inner state; for example, at the moment when we mentioned a member of mother's family who caused her feeling of irritation in their everyday intercourse; at the moment when the mother for the first time could hear her baby's heartbeat amplified by a cardiocography device; at the moment when an emotional children's song was reproduced by a tape recorder for her unborn child.

Our attention was attracted by a change in the heart beat of the unborn child when his/her mother was left alone and nobody was able to influence her. The questions about her thoughts asked immediately on the appearing of the changes in the ECG readings, as a rule, revealed correspondences between the unborn child's ECG reading and his mother's thoughts connected with her every day life

Table 1. Psychological characteristics in women with unwanted pregnancy and in the unwanted children.

Women with unwanted pregnancy: psychological characteristic (Brekhman and Lapochkina, 2000)	The unwanted children: psychological problems (Matejcek et al., 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

events which were of high significance for her and therefore gave rise to her anxiety and negative emotions.

Consequently, when mother's emotional state changed either under the influence of her thoughts, or, in case her mental state had been influenced by different stimuli, the unborn child responded by the changes in his/her heart rate and/or by his motor activity. It could be suggested that those responses of the unborn child (like the dreams) confirm his/her link with his mother's unconsciousness. Sometimes pregnant women point out directly that their unborn child's motor activity increases at the moment when they are feeling nervous.

One of the still unclear phenomenon is painful pushes or fist pushes of unborn children when a mother gets suddenly unpleasantly excited, or, if she in her mind rejects her child. Sometimes, it seems that her child perceives her secret thoughts, understands them and tries to "revenge" against his/her mother in an attempt to defend himself. We have made an attempt to explain such a response by the following hypothesis. Being in utmost anger people often reveal their behavior reaction in a form of a push or hit towards the offender. Probably, it is connected

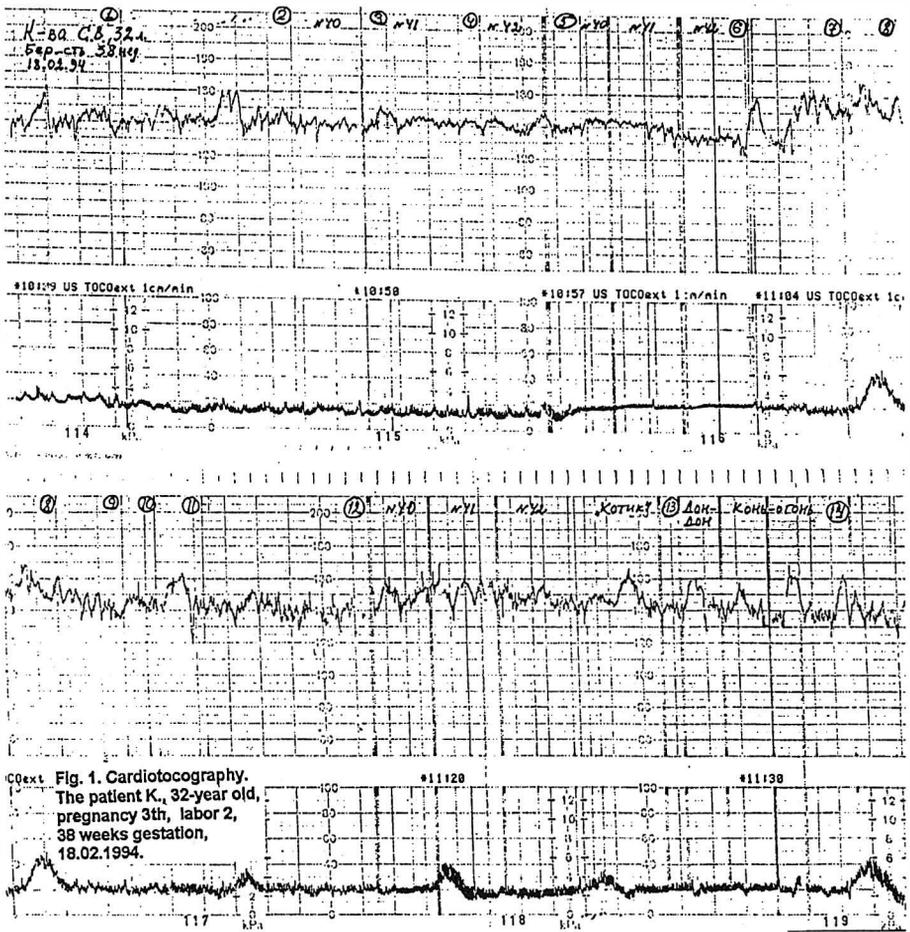


Fig. 1. Cardiotocography. The patient a 32-year old, pregnancy 3th, labor 2, 38 weeks gestation. The conditional symbol: 1 – Initiation. 2 – The fragments 40-41-42 of a musical piece by composer Kiryushin for the unborn child only by head-phones which we laying of abdomen where the head of unborn. 3 – The volume of sound is increased. 4 – The attenuation of the sound volume. 5 – Switching on the music (the same fragments for mother). 6 – At the beginning of our talk with woman about (the music is turned off) her day regimen, her elder child, her attitude to the child. 7 – The talk about the family member who causes irritation in the woman. 8 – The talk about her husband. 9 – The talk about her connection with the child (child's sex). 10 – She can be heard the child's heart beating. 11 – According to psychologist's suggestion soundless connection with her unborn child by means of her thoughts followed by emotional reaction (I see the tears on her eyes). 12 – A concert for the mother and her child (just the same musical fragments). 13 – New fragments of the piece of music. 14 – Our final talk.

with the fact that the motor cortex (of the brain) is also involved in the process of being excited. If a person cannot execute this act due to his personal morality or in case the aimed party is out of his reach, he has to externally block this reaction. But, he cannot stop its inner mental execution. If its true that the relationships

between mother and unborn child are based on the 'organ to organ' principal, we may suggest that this also relates to the brain and its zones.

Therefore, excitement of the mother's motor cortex is accompanied by the same process in the brain of her unborn child. Meanwhile, at that moment, the child, still does not have a "controller" which is supposed to be developed after birth in the bringing up process, and thus, brakes the acting reaction. In this case, it is expressed in response to his/her mother's impulse, exactly as it had been recorded in his genetic code. So, a child's push in the uterus may be considered as an open exposition of the hidden emotions and mental wishes of the mother. This is somehow a revelation of his mother's hidden thoughts and desires. But that could be seen not only here and now. Experiments show that mother's emotions which also make her child excited and make him commit certain movements, are simultaneously stored in his memory and may be exposed in future.

One of our colleagues, following our request, described the behavior of the adopted 4-year old son. It seemed unusual to her, that every time the boy received any remarks, order or refuse in something, he used to run into his offender and begin to hit him with his small fists. In this respect, it was somehow original and strange because he could not find that type of behavior in his adopted well-bred family. It may be that his behavior reflects the program, which had been initially input in him at his prenatal period from his biological mother which rejected him during the all the time of pregnancy. Could that also explain the phenomenon of children's hooliganism being considered as prenatal trauma (by Ward, 1998)?

Consideration of the "push phenomenon" leads to the idea of the emotional/mental data exchange from mother to child, from cell to cell, from mother's organ to child's organ, in particular from mother's brain to child's brain with adequate transmission of thoughts and their recording in memory (of brain's cells?). The idea of wave vibration of energy field as the way of the data exchange from mother to child is supported by Gerber (1988), Bertin (1992), etc.

The consequence of the "push" itself (as the example) may be represented as follows. Any behavior requires to engage several function system (FS) (nerves with central and outside chains, locomotor, blood circulating etc.) We may suppose that genetic code records are vitally important FS (eating, drinking and in the selected case, defensive). A good example of that is the famous Lennart Nilsson's movie "The Miracle of Life". Everybody could actually see how the unborn child covers his closed eyes from the ray of light coming from a micro-video-camera placed in amnion cavity.

Unification of the defensive FS with the emotions of anger and rage may lead to formation of the new FS of aggression and war. Being settled in unconsciousness, they determine at first sight not motivated and provoked behavior of the child/grown-up, which is being characterized as hooliganism. Such mechanism of information transmission may lead to setting in the memory of the unborn child the matrix of love and hatred, willingness and unwillingness, acceptance and rejection, sex adequacy, which seem determine a certain mode of thinking and behavior.

It certainly requires assimilation of the facts and scientific research as well as proves of relationship of mother and unborn child on soul and spiritual levels. It looks relatively real.

As an example, let's consider 2 options of interaction and interinfluence of the described levels in the life of the person in general and in prenatal phase between mother and unborn child in particular.

Option 1 (Ideal, successful). Ecological environment (nature and society) lets a person live in accord with himself and societies. It keeps his high principals (a search for and formation of meaning of his ideas about sense of life, eagerness to endless strive for self-perfection and perfection of the surrounding world) which provides the development of the best human qualities of a person such as kindness, friendliness, liveliness, true altruism, etc.

Soul level in these cases harmonizes a mental one – intellect, thoughts are directed towards creativity. Therefore, pregnant women have visible increase and/or in creative abilities, which probably presumably are percept by unborn child and in his future life are exposed in the forms of abilities and talents.

Accord with yourself, positive thinking lead to positive emotional mood, friendliness, smiling, which respectively supports searching-regulatory function of energetic level, which is in its turn connected to balanced, harmonized functioning of a multi-planing structure of the organism, biological level of a person. As a rule, these people are physically, psychologically, spiritually healthy.

Perhaps, we could consider this option in a different perspective: from a healthy body across energetic bridge to positive emotions, positive thinking that creates the conditions for soul comfort and spiritual self-perfection and provides mutual respect of individuum and socium. This option supposes harmonic condition of mother with unborn child on all levels and lays the foundation for his harmonic development and functioning.

Option 2. Social problems, which exist in the society, may become more acute for a pregnant woman and distort her interaction with a social environment. It retards a spiritual development of a woman and keeps her away from her unborn child, interferes with her soul interaction with her child. Suppression of spirit makes a pregnant woman stiff, aggressive, even cruel towards the surrounding people, including her unborn child, forms respective imprinting with him and a certain course of his mother's thoughts. From time to time she has some thoughts that she does not want her child to be born and she wishes him to be dead even before he was born. At best she bears an ambivalent attitude towards him.

On mental level she tries to suppress her mothering instinct even if she has a rather developed intellect. Mother's negative thoughts (reject, hostility, etc) lead her to the condition of emotional excitedness, form with her emotional ideas, of protest, anger, extreme hostility, or feeling of depression which, probably, is the basis of the unborn child astral level of the corresponding type. This in its turn, provides the damage to bio-fields, distort the functioning of energy level, blocking the functions of watching and regulation which exist in energy matrix. The consequences of these are some changes occurring on biological level like the attenuating of morpho-functional development deficit of the organs, impairments of the system's interactions, metabolism, which manifest as prenatal dystrophy, dysfunction, immune deficit, illnesses developmental defects and in future life – as susceptibility to diseases of infectious and non-infectious genesis.

Table 2. Human's level & harmonizing factors.

Human level	Harmonize factors
Biological	Food, water, air, medicine
Energetic	Gymnastics, massage, bathing, bathes, homeopathy, acupuncture, aroma, laser, electrotranquillization
Astral	Love, friendliness, attention, religion, social intercourse, beautiful nature, beloved work or matter, hobby, sport, music, dance, art, painting, theatre, cinema, video, domestic animals, psychological correction, psychotherapy, phartratreatment
Mental	Training, books, social intercourse, creative work, economic status, psychological correction, psychotherapy
Soul	Love, friends, family, society, reading, domestic animals
Spiritual	Philosophy, reading books, research work, self-improvement

Verny and Weintraub (1992) reports that mothers who has chronicle, periodically recurrent stress, quite often had deliveries premature neonates low weight, hyperactive, easily hurt and often sick. Some of those children just in a few days after birthing had been diagnosed as having duodenum ulcer. We conducted a retrospective study of a type of psycho-emotional condition of pregnant women and clinical course of pregnancy of the women whose children soon after birthing had been operated on pylorostenosis. All the mothers recalled multi-factorial psycho-traumatic situations and psycho-emotional stress during the whole pregnancy which periodically increased and intensified as the delivery became close. Let us present to your consideration one of our clinical studies.

V-va, 29 years old, employee of the regional newspaper, single, without any perspective for getting married, has decided to preserve her pregnancy. Being a woman of introvertual type found herself in a situation which evoked ambivalent feelings: on the one hand her desire to have a child, and on the other hand, her fear for negative attitude significant to her, of a referent group of her colleagues, especially management and their reaction towards destruction of moral-ethics norms. As her pregnancy proceeded a psycho-emotional tension of the woman started to increase in view of the coming difficulties which she expected when the fact of her liaison became public. these difficulties actually came as follows: public censure, discussions over violation of moral status of the employee of the Party's newspaper, threat of firing. Besides, growth of uneasiness and fear due to coming delivery some days after her son was born, he had to undergo the operation on pylorostenosis.

We may suggest, that a long psycho-emotional stress of the mother, which was connected to psychological peculiarities of the woman and social conditions during all pregnancy period, had been negatively influencing spiritual level of the mother affecting her conscience and emotions (mental and astral levels). That affects also the functioning of energy matrix which track normal disposition of the cells and tissues, which finally led to destruction of the structure and function of the part of digestive system (biological level).

Mother's influence on her unborn child on physical, emotional, mental levels was reported by Bertin (1992), but she did not indicate the possibility of a feedback. Having discussed the issue of transfer of information from mother to child we constantly bear in mind that functioning of any system presupposes interaction of its parts, in other words a feedback – from child to mother.

The suggestion that multiple-level interaction leads to the opportunity of optimizing pregnant women's life activities (Table 2).

I trust that the above suggested hypothesis can assist in understanding such a complicated problem as multiple-level interaction between the mother and her unborn child.

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