

# LIFE, CANCER AND VIRTUAL INFORMATION<sup>1</sup>

Rudolf KLIMEK<sup>2</sup>

**ABSTRACT.** *Medicine is one of those unique areas of human activity in which man is not only the object and also the subject of interest, but primarily connects all the theoretical (cognitive) achievements directly with the art of the possible protection of life and bringing people back to health. This obliges people to continuously track the progress of both general knowledge and its technological use. For a century, mankind could not see that virtual information existed next to matter and energy, as the third most important component of the universe.*

*Both man and cancers arising from his own cells come from individual cells whose further development, in accordance with the equivalence of matter, information, and energy is carried out by the same elementary particles of the universe. A man's life is distinguished by the ability for informational self-assessment of the status of their health in an socio-economic environment as described by the universal equation of equivalence:  $E =^i mc^2$ , in which information (i) is of fundamental importance in mutual, continuous and spontaneous alternation of matter (m) and energy (E) of the universe, directly and / or indirectly perceived by the people ( $=^i$ ). Each person can also immediately see their own informational character looking in a mirror in which the image seen (the mirror form) does not contain a single atom of his body, but is only the resonance result of feedback information. The most important feature of living organisms is not life itself, but also the ability for its intergenerational transmission, hence it is important to distinguish the living beings and the universal existence of life from the inanimate world. The existence of cancers confirms the superiority of life in general over the life of every multicellular organism, since all cancer cells to sustain their own life can result in self-organization due active virtual information.*

**KEYWORDS:** *cancer, carcinogenesis, information, informational resonance, life, virtual information, equivalence  $E =^i mc^2$*

<sup>1</sup> This paper is the dedication to the BCA as to the Contributor of my biocosmological orientation.

<sup>2</sup> Fertility Centre, Cracow, POLAND

## *Contents*

### *Introduction*

1. Living organisms
2. Modeling in obstetrics and oncology
3. Individual data of human birth
4. Carcinogenesis according to the model of cervical cancer
5. Information and medicine
6. Money and informational medicine

### *Conclusion*

*Do not be afraid of the truth, do good.*

## **Introduction**

Life is existing informational event (process, characteristic feature of living organisms) known by different words: life, la vie, vita, żyzn, etc.). These words are particles of different human languages, the existence of which distinguishes the “spoken world of man” from the rest of the non-verbal universe, and above all from all other living multicellular species, also capable of intergenerational development. On the other hand, the word “language” is not only used for verbal communication between people, but also determines the organ in the mouth, which allows speaking and proper nutrition. Finally, a word’s function depends on the method and context of its use by a man taking account of the non-verbal body language, e.g. gestures, facial expressions, posture and tone of voice.

Life can be defined as the informational constantly adjustable mutual exchange of mass (m) and energy (E), whose identity was expressed by A. Einstein’s equation  $E = mc^2$ . People notice accurately only material changes and many philosophers also connect the emergence of life to the beginning of the existence of matter. In fact, matter and energy are two sides of the same thing as a separate part of the universe. Leonardo da Vinci has recognized movement as one of the fundamental features of life, but as it is now known, something moves in the atoms themselves, and therefore to define the concept of life one shall always refer to a specific system. In relation to man his life is distinguished by the ability of assessing the state of their health and socio-economic environment as described in the universe equivalence equation:  $E = mc^2$ , where the information is of fundamental importance [1–3]. The natural material-informational-energetic world is triune and coherent, including the triad logic essence of socio-cultural processes and their conscious safe and favorable development, which is driven “from within by the inherent causes [4,5]. Information exists as a virtual effective power (from Lat. words: virtualis – effective, virtus – the power or virtue) in mutual continuous spontaneous alternation of two other ingredients, i.e.

matter and energy of the universe, directly (matter) and/or indirectly (energy) perceived by people, ranging from galaxies and ending with neutrinos. The information is the most important part of reality composed of matter, energy and information, because everyone knows that each effect has its cause. Only people forgot that in every cause there is precisely this image of the plan, what this cause will precipitate. Scientists are still discovering new rules and laws trying to understand the existing structures and processes. Technicians then create new means of learning and improving human life. Recognizing the excellence of nature, people try to refer to the divine dimension of scientific achievements in a kind of “language of God”, known as genetic code, or even already in the process of research calling the elementary Higgs particle “divine” before its synthesis!?

Each word has executive power, because extracting from the environment any structure or process gives it a name of the actual event in the universal information field of the universe, in which the eternal natural laws exist. Information is present everywhere as the essence of order in the nature of animate or inanimate things. Information begins to function and play an important role when there is someone who receives this information, assimilates it, and uses it. The point is that information is the causative agent of many transformations of matter and energy, ones in themselves sometimes not fully understood. However, information as the element which makes things move in the direction they do, the thing which decides which one of possible routes is selected and taken with the continual transformation of energy into matter and matter into energy, but all this is always directed and organized precisely by the component of information. These in turn govern not only the distribution of perceptible matter and energy, but also information, which are virtual time, space, resonance, growing up, thinking, etc. Informational reality in the human world expresses feelings of love, hate, jealousy, fear and fatigue, and especially self-awareness of people’s own existence. Each of these feelings has a beginning and as in all events, the causes and sources that a person who is an independent and self-regulating part of the universe must always be taken into account.

Information is not only a known form of cognitive resonance between the sender and the recipient of news, but first of all it is the causative agent in many material and energetic transformations, when the activation of one of them causes the resonance reaction of the second, and vice versa. Information may exist in many different forms yet remain itself, i.e. retain its identity even though it may be expressed in different ways. Informational resonance is the driving force not only in the person to whom information has been provided and who utilizes this information that touches the spiritual-material human existence. In the case of feedback of two more objects, they interact in such a way that the first object influences the other, and the second acts on the first object, what closes the circle of cause and effect. There is no beginning and no end, every think revolves. Resonance is a synchronization of a source with its reactive object. Human mind possesses a kind of willingness to create model of the outside world and a readiness to attribute these models to be coherent resonance with human understanding of real world. Each such coupling of abstract ideas and their practical application resulted in resonance, science moved us another step forward.

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### 1. Living organisms

The most important feature of living multicellular organisms is not – as is commonly believed – life itself, but the ability of its intergenerational transmission. Life is a spontaneous mutual conversion of matter and energy of elementary particles in the universe, with the participation of including information about its own condition and environment, and also characterizes intracellular structures which are unable to self-replicate inside the cells of the human body. Hence, it is important to distinguish between living entities and life in the inanimate world [2,6–9]. Single-celled organisms are considered too be alive, which by their division form daughter cells of the same genome (genetic identity), as evidenced by the discovery of the fact that identical carriers of hereditary (genes) are associated with the structure of the nucleic acid of the cell nuclei. Unfortunately, the biochemical nucleic genome were divided into individual nucleotides (chemical compounds) and also were called genes, although heredity determines appropriate characteristics only with the participation of the internal structures of individual cells. Deeper understanding of the message of life has been delayed due to taking into account only two identical components of the gene, i.e. nucleotides of matter and energy, and at the same time completely omitting the coexistence of information. For example, malignant transformation of epithelial cells of the cervix connects to the information divesting a significant proportion of their mass into energy so that it could still take up life in a new form in the place of the cells condemned to death [10]. Such a large conversion of matter into energy is not observed in natural cell division, including the zygote beginning human life.

The whole organism, starting from individual atoms (e.g. oxygen, iron, calcium) and cells, unites man's biophysical structure at the atomic level, which has, for decades, been directly tested in spatial and energetic dimensions using technology based on magnetic resonance imaging [11–15]. With this method one can not only locate the individual atoms of the body, but also measure their energy state by measuring the relaxation time of the nuclei after resonant electromagnetic excitation. The thermodynamic interpretation of body structure recognizes all the cells as individual entities in relation to the whole body, wherein they include not only the cellular components of body fluids, but also, for example natural tissue macrophages infiltrating the stable cells. The end of the existence of many of them is programmed even in epithelial cells of the body's surface, or in the periodically renewing endometrial cells. It must be emphasized that this is always cytomolecular, i.e. the overall interaction of cells and their components. Their role is emphasized when noxious agents, organic and inorganic biophysically active proteins or microorganisms appear on their surface. The existence of cells requires primarily biochemical compounds, molecules to be involved in their metabolism, even while denatured losing its biological properties they retain their existing material



composition. The recognition of whole cells as a thermodynamic system allows for a clear distinction of living cells and natural biochemical deoxyribonucleic acids or proteins – in their name prefix bio means life itself, and not an independent living body. Finally, the boundary conditions significantly determine the status of each system, which can be both a cell and a molecule of deoxyribonucleic acid.

The concept of the gene as a carrier of heredity was introduced in 1909, which eventually led to the discovery of the structure of the whole human genome in the form of a strand of deoxyribonucleic acid (DNA). It was then that the information and energy components of genes were revealed, in which the dynamic structure of deoxyribonucleic acids found the deepest signs of life, i.e. the informational, material and energetically self-organization of genes. Researchers can isolate sequences corresponding to known viruses from the genome of the cell's DNA, but the thus obtained "viruses" are not always infectious, and animals lacking these sequences in the genome can lose their fertility. More than half of the human genome corresponds to the structure of known viruses and their "presence" is referred to as the endosymbiont, to distinguish them from natural viruses.

The unique identity of each person is determined by the zygote, a single cell formed by the merging of two statistically selected different gametes from stem cells of biological parents. Life itself in this cell does not arise *de novo*, because it passed through generations existing earlier also in the zygotes of the mother and father (i.e. the grandparents), which requires the contemporary assessment of every living person. Each person is not the only clone of the zygote, because in addition to his somatic cells, reproductive cells arise to initiate the next human generation (gametes), as well as the cells forming pregnancy together with the mother, as a joint structure, i.e. embryonic membranes and the placenta. Without the latter boundary structures there can be no successful course of pregnancy, because nothing can replace a mother's body in human development as a result of fertilization.

Scientists of the nineteenth century reduced living organisms to spatial structures of single and multicellular beings. Not only did they make it possible to view the structures, but within multicellular organisms they also discovered a world of other cells of the individual, requiring modern interpretation of the role of the cells of the body. The range of their influence can be defined as: tissue (stable), or general (non-stable) creating tissue structures, or autonomous mobile biological systems.

The cytomolecular meaning of each particular cell is clearly visible at the entry of the virus into its interior. If the cell does not die, which is a common phenomenon – in extreme cases it can prolong its existence by incorporating the virus in its genome, and this involves a change of cellular genetic identity. This marks the beginning of a new clone of cells already adapted to the contaminated environment and in multicellular organisms – unfortunately – to the formation of tumors, as the first matter-energy signal of local failure of the repair mechanisms. If the organism as a whole allows for the development of such a clone cancer, the signs and symptoms of cancer are only a matter of time. This local and generalized human struggle of developing cancer mistakenly is called hidden and dates back to morphological medicine, when there were simultaneous matter and energy examination methods

using nuclear magnetic resonance. Even incorporation of the plasmid into the bacteria can be assessed by this method [1,3,14,15], which in turn allows the recognition of an altered or changing genome of the cell before the oncogenic transformation. This means that the change by the incorporation of viral genome, as well as by spontaneous mutation, does not have to force the neoplastic transformation as an alternative to cell death, but certainly affect its activity as a whole, thus the impact of the environment changes, which reflects the fate of each individual cell [3,16].

## **2. Modeling in obstetrics and oncology**

Currently, the study of reality is based upon material and information models, as applied in predicting the individual dates of birth and the discovery of the cause of cancer diseases [17–21]. Modeling is the creation of useful descriptions (standards) considering the event (structure or process), taking into account information about it, as well as its surroundings including a mathematical model of the elusive feelings or human behavior. The concepts corresponding to the test objects are the final phase of activities, for example distinguish the life from the existence of single and multicellular living organisms, capable of its transfer. This can be traced to the example of not split able gametes, i.e. the male (sperm) and female eggs (called cells only because of the similarity to other cellular structures). They can only transmit life by the merging of parental gametes, i.e. the zygote, which is the beginning of a new human life.

A beginning is real information about the existence of a new being, on the one hand belonging to its source while on the other belonging to the newly created process or structure. Each person was, in the moment of conception, given a unique informational identity, because zygote atoms are made up of elementary particles, each of which has its own history of its existence. However, after death the atoms return to the environment, and the unique identity person remains as information persisting in society in the form of his name, achievements or memory. R.Tadeusiewicz introduced the abstract modeling method [6] to distinguish living beings from every piece of inanimate matter, among others, by their purposeful physical activity associated with the perception of the state of their environment. The incoming stimuli enable people to effectively gather food, effectively avoid risks and connect with a sexual partner. In addition to the information, the required systems are: the nervous, respiratory, circulatory, digestive, neurohormonal and immunological. This method of cybernetic proceeding received recognition and was named “experiment in compute” in the likeness of experiments in vitro and in vivo. Biocybernetic modeling is not yet a widely used methodology, but it facilitates advances in obstetrics and oncology [1,2,6].

## **3. Individual date of human birth**

Pregnancy as a process of transmitting life to the next generation in relation to man applies not only to biology, but also to the psycho-emotional processes so often more powerful than ecological phenomena. Man himself decides about procreation even without the necessity of informing the sexual partner, especially if the possible

pregnancy is a threat to his personal socio-economic status. Unfortunately, more and more people are delaying the possibility of pregnancy, thus deliberately limiting the primary process in which biology precisely determines the optimum time for conception, and only allows psychological motivation. The vast majority of people simply ignore this fundamental task pertaining to the maintenance of the species of *Homo sapiens*, and only infertile people know the value of pregnancy as the most precious gift of life.

Man matures in the womb and is born at any time of day and year with a naturally large range of the duration of pregnancy (259 to 302 days), weight gain (2600 – 4000 g), growth (48 – 60 cm) and maturity (6 – 12 technical quanta). According to the existing equivalence of energy, information and mass these different features combine the same ratio of increase of their value relative to the lapse of time between two consecutive their obstetrical ultrasonographic measurements [18,19,28]. This allows one to forecast the state of the newborn and the date of his birth with an accuracy of  $\pm 3$  days instead of  $\pm 3$  weeks in the currently poorly programmed ultrasound machines. Preterm birth means a not fully mature fetus born a week or more before the actual date of the individual term. Relying on statistics and not on individual clinical data has led for the need to combat “obstetric terrorism” because of frequent interruptions by cesarean section the natural fetal human development without the necessary medical indication. After all, this is one of the most iatrogenic factor namely while done before the last week of normal pregnancy, in which rapid maturing occurs: the lungs and heart adapt to rapid changes in blood circulation and respiration of the child outside the mother's system, which has a decisive influence on the child's life!

Premature births occur at the latest at the end of the 42<sup>nd</sup> week of pregnancy, contrary to a popular lie that it can only affect pregnancy before 37 weeks of their duration. Obstetricians determine the beginning of the pregnancy on the basis of the last period reported by the woman with an accuracy of a few days, and in addition the self-fertilization also includes a few days of the time range of ovulation (?!). As a result, the number of iatrogenic preterm births increases, with a documented causal link to cervical cancer [17–21]. The tragic consequences are also neglected by doctors when informing patients about the possibility of using proven and already existing measures to prevent an excessive number of induced deliveries, prematurity, obstetric hemorrhage, and morbidity after pregnancy, lack of or reduced lactation, and especially the issuing of textbooks and monographs which knowingly omit a description of effective medical procedures, and the recommendations contained therein often contain biased advertising. Such an intellectual fraud in medicine, fortunately, is already subject to the jurisdiction. These problems take on a new dimension in connection with describing informatonosis as a new disease that is easiest to detect in doctors if they were away from their training or due to their vocation for expressing their pernicious notions [1,22]. This purely informational disease affects people with an intact sanity and differs from schizophrenia in that it is not characterized by delusions, hallucinations or distraction. In the absence of these symptoms it does not require generating health benefits and other forms of social

assistance. Therefore infonotics, unlike schizophrenics, may be subject to criminal prosecution for an intellectual crime, i.e. through their own words and harmful actions against socially acceptable values and principles. In contrast, effective treatment is the verbal communication of truth about the natural reality in which the word has executive power.

#### **4. Carcinogenesis according to the model of cervical cancer**

The basic component of the universe is information about the degree of order of each system, called entropy: the bigger it is, the greater the chaos (disorder), and thus less physical fitness, e.g. the kind of feeling of increasing ease of fatigue as a person grows older. Any change of matter and energy in the system was accompanied by the production of entropy, and the entire concept is very useful to the understanding of reality [1-3,6-8,27,28]. For example, the entropy production is associated with any biochemical conversion of thousands of proteins that are found in human cells that could exist and exchange metabolites with the environment and in particular to produce the hormones, enzymes, antibodies, etc. for the entire organism. The second law of thermodynamics states that the sum of the increment (d) over time (t) of the entropy (S) simultaneously in a cell (c) and its surroundings (o) must be positive ( $dS_c + dS_o > 0$ ). Cell metabolism is disturbed, or even disappears, if any change reduces its current production of entropy. This phenomenon physicist has mathematically called a “negative” source of entropy [2,15]. The word negative means that for the continued existence of the entire system (cell) it is necessary to increase production of entropy, or the new “positive” source is needed. The cell, by reducing its additional production of metabolites for the use of the whole body, can generate positive entropy sources only with the new genome, using the self-organization of cancer’s matter and energy of these cellular organelles that participated in the additional production of the substances for the benefit of the whole system. In place of the existing inefficient cells there appears a disposable biological system (cancer) with increased dispersion (dissipation) of entropy in the environment. (Fig.1)



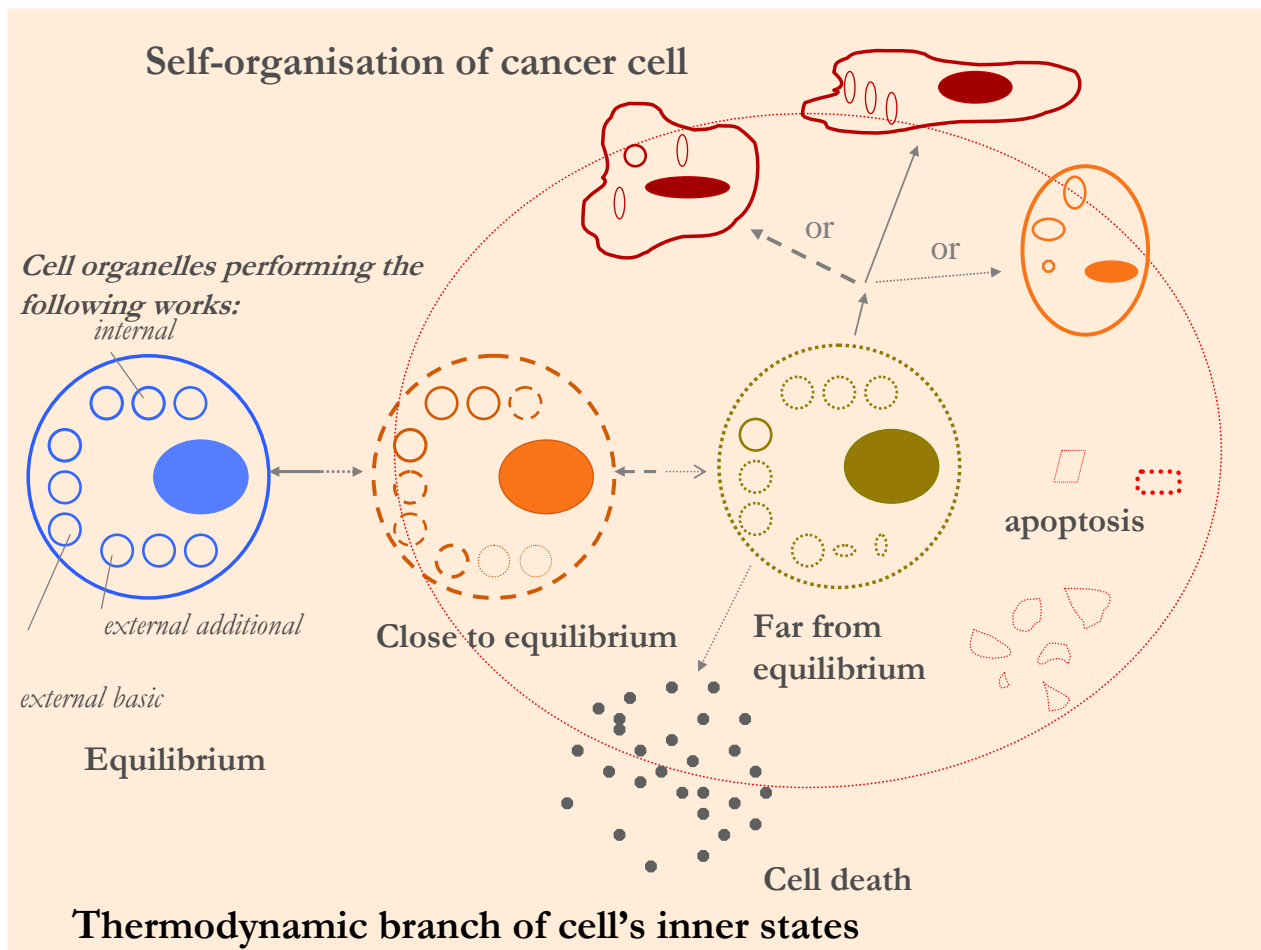


Fig.1

Each of persons arose from a single cell, called a zygote. From this single cell not only the somatic cells are formed but already on the tenth or eleventh day the cells for the next generation are formed. There are situations where each of these cells as an independent biological entity must exchange matter, information and energy with the environment, and if it is a cell in a multicellular organism, it must fulfill its functions for the rest of the cells. This relationship of the individual as a human in society can be compared to the cells in the body. If the cell a body is not supplied with blood, is not supplied with oxygen, does not give off carbon dioxide, it begins to choke, stops working and what is essential is that for its existence it is more important than to produce hormones and enzymes for the other cells. There is a law in nature, where a cell being far from equilibrium may reorganize itself into a new structure, one more efficient in a body in such a bad condition. It can do this due to the fact that these now useless materials can be turned into energy to change its nucleus. The altered cell nucleus of the DNA causes it to be a foreign cell in the body. The tumor cell, under these conditions, can last and divide into daughter cells, if it is efficient enough that it can take care of vascularization. Therefore, people need to know that cancer arises from their own cells because the cancer cell cares primarily about itself. It works according to the laws of nature where in order to survive in these conditions it must harm the environment, which does not cared for it [3,8].

Cancer is a natural alternative form of existence of the cell sentenced to death whose only further development as dissipative structure is responsible for the signs and symptoms of diseases popularly called cancer. In the fight with it health is the protection, and the defense – proper nutrition and care for the environment and taking advantage of the biological and economic heritage, which determines the outcome of the fight against cancer. Medicine, through operations, electromagnetic radiation, hyperthermia, chemotherapy and hormone therapy is only responsible for about 20% of treatment effects. Therefore, prophylaxis is important, in which patients must be absolutely selfish, demanding the right of access to health services, regardless of the limits established by the health authorities [1,8,11,13].

The existence of tumors confirms the superiority of life in general over the life of every multicellular organism, since all human cells may become cancerous through self-organization, and sometimes even a person's psycho-emotional system. Each tumor confirms the failure of the whole defense and repair system, due to the structural-functional internal balance of the person. Cancer does not have single-celled organisms, because at the moment of self-organization a new biological dissipative structure becomes a clone of cells with a new identity with better adaptation to the environment.

Preventing cancer lies in strengthening the body's defenses, and the continuing improvement of health education and regular control and prevention studies. For example, the human papilloma virus (HPV) uses, for its propagation, natural exfoliating epithelial cells of the body. Once the virus has infected a cell and begins replicating itself, also new capsid subunits are synthesized according to genetic information of the virus. The viruses themselves controlled by the human often change their protein capsid (sheath structure of their nucleic acid) to penetrate inside them [23–25]. They spread outside the body of the patient, which eliminates the infection of 80 – 90% of cases before the disease fully develops. The recently produced prophylactic vaccine against HPV is deprived of nucleic component of this virus, but it is just information arising from the similarity of its composition to viral protein capsid. Following subcutaneous injection, it only provides information which exceeded the epidermal barrier before the existence of the infectious disease, which in turn may initiate an immune response throughout the body, leading even to death. Not the nucleic virus, but the misinformation about its alleged existence is the cause of this pathology [3,21,26].

Carcinogenesis is a slow and lengthy process before the cancer occurs, which breaks away from the pernicious multicellular environment, and already in a new form (of cancer) is the first signal for activating systemic repair and defense body mechanisms. Self-organization of dissipative cells to extend their own cellular forms of life makes it easier to understand the cancer diseases that the public knows only of course for their last stage without understanding the patients' own leading role in carcinogenesis [1–3,14,15]. After several years of scientific and professional activities, at the turn of the last century there have been developed modern obstetrical guidelines as a basis for cancer prevention, and medical-legal issues summarized the achievements of obstetrics in the twentieth century in manuals, which became the

basis of the original International Declaration of birth in the XXI century [18,19,28–31]. Unfortunately, in the first decade of this century, there was not only a dangerous increase in iatrogenic gynecology, against professional vocation and demographic threats, but also a textbook tolerance of counterfeit intellectualism, and in practice even the intimidation of patients and physicians. Therefore, one should be reminded that the eternal principles of *primum non nocere* or *medice ipsum curate* appeal to all people to live in harmony with their conscience and convictions. In assessing the effects of the anti-cancer battle, one often abuses the conclusion that the outcome of treatment is determined by the earliest possible diagnosis of cancers in their most initial stage. This applies, after all, without exception to all diseases, and thus one justifies only the lack of significant progress in the treatment of advanced stages of cancer.

The entire range of medical knowledge, from technology to bioneurocybernetic medicine, partnerships between patient and doctor are significantly important. Talking with an experienced physician or psychologist is invaluable mainly to eliminate the beliefs that cancer is incurable, and an oncologist is a man giving a percentage chance of recovery or a death date, e.g. month, for two or three years. These numbers can operate only in closed circle of professionals who discuss among themselves the treatment of patients, and this information should not share outside of medicine. After all, every additional perceptual chance is an individual life, and even in hopeless cases there occur instances bordering on miraculous self-healing. It should make people aware that cancer is a natural phenomenon which can endanger the life of only a sick man. A healthy body, through systemic mechanisms of repair and defense, every day eliminates cancer cells appearing at the informational level of carcinogenesis through the literally causal power of information in response to a sudden increase in local matter and energy dissipation. In the end, one cannot ignore the achievements of doctors themselves, and above all the relevant criteria in the assessment and possible adaptation of foreign models, in which too often the general knowledge input is overlooked, as, for example, in the last century in the field of neuroendocrinology, nucleomagnetic imaging and spectroscopy, photodynamic diagnosis and therapy, immunotherapy, psychocybernetics and, in particular oncology by redefining its foundations [32–35].

## 5. Information and medicine

Medicine is one of those unique areas of human activity, in which not only its subject is at the same time the subject of interest, but mainly all the theoretical (cognitive) achievements are directly connected with the art of the possible protection of life and restoring people to health. At the same time, doctors are putting its existence as necessary to provide services to people suffering from diseases or disasters or affected by the socio-economic development, when the only motivation for their actions is a professional vocation. The scope of the means for this purpose is huge, ranging from single words and/or gestures, and ending with the use of space equipment, or the use of even fire, radioactive radiation, a knife (scalpel), or even poisons. In this perspective medicine obliges doctors to continuously track the

progress of general knowledge and its technological use. Unfortunately, it is much easier to go into detailed knowledge and understanding of reality, rather than to use the necessary generalizations, as is apparent in for e.g. the lack of full public understanding of the theory of relativity and statistical evaluation of reality, not to mention the significance of commonly used terms, such as time, entropy, information, life, etc. On the other hand, doctors do not always take into account the need to reduce the excess of information available only to the scope of its medical usefulness. They do not need to know the details of the existing metabolic pathways of proteins, ribonucleic acids, steroid compounds, various markers and catalysts, but should know how they affect the overall metabolic disorders (matter-energy changes) of patients. They should know the symptoms and/or their feelings, where results play an important role in biochemistry, and recently more and more often also biophysicists. For example, a technique accurate to a hundredth of a second allows you to explore dozens of characteristics of a single cell in the mother's blood to determine whether it is correct, what the origin is (maternal, fetal, or cancer) and, finally, show a derivation from the genetic identity of the family of the person's, etc. Fortunately the nature of many different phenomena is regulated by the same biophysical and biochemical universal mechanisms.

Both man and the cancers resulting from his own cells arise from single cells whose further development is in accordance with the equivalence of matter information and energy carried out by the elementary particles of the universe. For a century, mankind could not see matter and energy existing side by side as information, as the third most important component of the universe. But one just can stand in front of the mirror(s) to looking at a copy of one's character, which does not contain even a single atom of real own body, as observed objects and the environment. The existing reality consists of atoms, while the mirrored character form is from the same localized resonating atoms, but devoid of matter simply because it is observed only their information parts, even in the colors and their shades. Such observable information seemingly disappears by looking away or shattering the mirror. What's more, an outside observer's information forms (the image seen in the mirror) can be stored separately in digital technique or a photograph! The fact remains a philosophical conundrum – what happens to the information at the moment when the mirror is broken, being a visible event of the material environment. The image information can also be painted or even sculpted as a copy of it, which is formed from completely different atoms.

Information not only exists in our environment when you can see it in the mirror, but it also has executive power, which is not realized by chess players when they convert a pawn to any piece upon its reaching the last line of the chess board in accordance with the rules laid down by the creators of the game. Therefore, these rules contain informational existence. In the same way, but completely independent from humans, work the laws of nature, which further expand human learning information. It is known, for e.g. that hundreds of thousands of biochemical reactions consist of metabolism of each cell, and all function in accordance with the laws of nature, but doctors would determine the internal state of cells, and even the whole



body, based on only a few cells. Such a reductionism in medicine led to the fact that the unit of inheritance of traits in species – called a gene – began to be seen as simple chemical nucleotide compounds, or even a single one to be assigned biochemical names as appropriate oncogenes. This time passed when it turned out that the polynucleotide genome is sufficient to determine the identity of the cell, but the inheritance effect of traits depends on the whole of the nuclear DNA (genome), as well as the entire cell, while preserving the genetic identity (identical to the nuclear genome DNA) of the zygotes, there occur more than 2500 different types of human somatic cells. In an adult organism an enormous number of them exist –  $10^{14}$ , several thousand times that of all the people inhabiting the earth. Therefore the continuity of life on Earth is ensured not only by the continuity of information provided by genes (or DNA), but mainly by the continuity of living cells.

## 6. Money and informational medicine

Man is an end to the psycho-emotional development of all cellular forms of life, which differentiate themselves from self-organizing tumors. Tumors lacking the human informational qualities are subject to natural laws, and as single entities, only accelerate the elimination of the affected humans. They cannot independently reproduce, which generally is a condition sine qua non of any system for life. People in their existence are above all characterized by their spiritual life which prenatal psychology calls “bonding”, as a force that connects the psycho-emotionally unborn child with his mother and the atmosphere of the parental home, as the foundation of social life. Social production of goods and/or services is always accompanied by the formation of entropy, and the increase in multicellular organisms regulates even their species’ life at the level of elementary particles, which are also components of the materials considered initially by people as the material unit of measurement of the value of items (goods) or services.

Money originally served people directly for the assessment of goods and services, as well as to indirectly estimate the social position of its owner. On the other hand, in the form of receipts, it indicated the titles of ownership of the money – became a creation of man, being the information of the value of a specific materially and / or energetically real goods or services. The conversion of the social life can be compared to the discovery of the wheel or the resurrection of fire by a man who does not always use them according to the laws of nature. In the case of money it is especially dangerous, because the lack of material-energetic cover of its nominal value disorganizes the social life according to M.Kopernika’s free-market law that states “bad value displaces better values.”

Money became the basis of the banking business which directly affects the lives of entire societies as systems, fortunately, under the control of the laws of nature, because according to the known laws of thermodynamics the so-called self-organization can occur – namely of the dissipative structures and in the system components located at the end of its existence. The alternative of cell death is tumor, as money – for social forms of life. However, while biological structures are subject to their own natural intrinsic auto-regulation, money, as a human artificial creation, is

deprived of the natural perfection of self-organization, because the prices do not always reflect the true value of the goods or services. With a decrease of the real value of money come serious moral problems of man and the dependence of potential lenders without proper concern for the future of individuals, and above all their offspring. The magnitude of this threat is shown by the need to create central bank reserves and public scrutiny of issuing banknotes because of the completion of their convertibility into gold. Thus, the coin no longer answers directly to the laws of nature, and has become a virtual element of social life, referred to as a business, where information dominates the material-energy part of reality. The main difference between cancer and the money lies in the fact that cancer destroys the patient's body as a result of growth, while money destroys society because of the actual, not virtual quantitative reduction in social life.

Unfortunately, man instead of the exchange of products and services for money (coins) began to use only information of their values, or their very own price. Thus money has become the informational basis of business and joined such concepts as power, fame, authority, awareness, love and so on. But through the life and work of individuals, money indirectly still is associated with substantive information and energy of human reality, because in social life if one does not know what is going on, it is usually due to money and power. These two concepts relate to the achievement human benefits, based on knowledge of the laws of the universe, which, however, man can not entirely mimic. Even five centuries Leonardo da Vinci noted that “human ingenuity is not able to create anything simpler or more beautiful than the creations of nature, which does nothing in excess and nothing imperfectly”.

The monetary system has a huge impact on the social economy as the main actuator with its cyclical fluctuations, having a significant impact on social life. Unfortunately, long-term social development of the economic forecasts are less reliable than predicting the weather, which primarily takes into account the existence of and responsive to the functioning of our species in the universe. Low verifiability of weather forecasts testifies to a lack of sufficient knowledge of the laws of nature, which some people try to judge by their own understanding of the value of money and sense of power. Virtual money without any real cover turned out to be the only alternative to end social forms of life, or cancer. Real money, based on the value of the raw material it creates, is essential to maintain the socio-economic processes it can also sustain them as information security prices. If one does not naturally support the process of creating goods and services, it easily becomes the cause of the collapse of systems without their own or other sources. Therefore laws created by people cannot ignore the real natural laws, where human goodness is, and should be understood as paramount. Most precious thing is human life, which fortunately he himself does not create, but only transmits to his descendants to maintain the species of *Homo sapiens*.

## Conclusion

Information has a significant impact on the lives and health of human beings. In nature in addition to matter and energy there is also information as the third part of

reality. Many people who would look at the mirror would see it. In this mirror picture there is not one of their material, energetic, or informational atoms, because in the mirror there is just the resonating information itself. This is all on the other side of the mirror, it looks the same, but consists of only pure information, and this is what many people do not realize. In every person there exist a number of informational resonators, like a radio which is ready to receive a number of radio waves even if there is no broadcasting station which would be sending any signals. The radio is built so that it could receive a signal even if it physically absent at the moment. If a new station appears, its signal can be heard. In humans, there are many – in their psychological structure – such areas, which can resonate with a variety of things. It could be the impact of other people, which results, for example in crowd psychosis, the effect of the impact of bad company, or some other similar thing. It could be the impact of someone who a person considers an authority – he comes to the doctor hears the word “cancer.” He primes himself in this way with the entire ‘cancer content’ out there and maybe even dies from fear, even though he really did not have that cancer. In turn he could be so effectively convinced that he was healed from it that perhaps the cancer disappears.

The greatest achievement of twenty-first century medicine is the introduction of purely informational diseases. Lies, telling untruths, or concealment is an adequate cause of many diseases, because they destroy motivated human behavior. Between the sender of information, the recipient of information, the source of information and the place where this information is used, there must exist a kind of resonance, so that the information can function already in the unique intrauterine human development stage, later in his upbringing, education, and finally in regard to their own existence in society. A special gift is pregnancy, not only due to the biological transmission of the cells of the human life, but also due to the support of the psycho-emotional health of the family, which takes place in optimum condition of the woman’s health. Procreation provides the emergence of the family as the most valuable supporting structure in the existence of the species.

The given life is also typically the given the responsibility of its further transmission, which nature has secured by the excessive production of millions of gametes, so mothers could give birth throughout their lives dozens of times. Man consciously may limit procreation, which in many cases has already led to the real threat of denationalization of most developed societies. All this is happening, from personal observation, because a woman can do literally anything for the birth of the child, even with the awareness of her own death during childbirth, or in the event of confirmation of infertility commits suicide, to enable the spouse the success in another relationship.

A disease is a state of the body where it is not in its natural inner balance, in accordance with its age. The fight against cancer must be shifted to the first causal stage of information, because the carcinogenesis is the reaction of cells being neglected by the rest of the organism, than let human protects the organism so it can take care of all the cells. The tumors are treated when they are already in place, when the body is old and when there are other diseases present. Tumors do not arise in a

healthy person's balanced state, as they are immediately destroyed. They arise in states which are far from equilibrium, where the defense forces are exhausted. Nothing in nature is free. Physicians should not only fight existing cancer cells, but they should fight them as they arise and not look for present cancer to treat it, but look for people who are likely to develop cancer. In every living human there are around a hundred mutated cancer cells created every day. If the immune system is in a bad state, any one of these cells can survive and hide for a while, and when once again the immune forces are impaired, they can begin to grow. Cancer is the defense of a single cell against its non-existence. The time between the first cancer cell and the first clinical symptoms lies at 10 to 15 years. The fight against cancer must be shifted to the first causal stage of information.

#### *Conflict of interest*

I confirm that this article content has no conflict of interest.

#### *Disclosure*

This article is an update of previously publications: "Explained cause of cancer" [8], "Threefold material informational energetic reality:  $E \rightleftharpoons mc^2$ " [2], "Psychoneurocybernetic conquest of carcinogenesis and cancers" [1], and "Prevention of iatrogenic cervical cancer" [21].

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