Chapter 4

Causal Prevention of Cervical Carcinogenesis

Rudolf Klimek

Fertility Centre, Poland

*Corresponding Author: Rudolf Klimek, Fertility Centre, 21-049 Cracow, Sebastiana 10/3, Poland, Email: mmklimek@cygronet.pl

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Introduction

The best understood human neoplasm is cervical cancer, which is called mothers’ disease or the disease of early sexual initiation, which reflects its wide social impact. There are common thermodynamic roots of cervical intraepithelial neoplasia (CIN), cervical cancer and premature delivery. They can be promoted not only by many non-specific life-style factors (maternal age, socioeconomic status, educational level, amount of prenatal care, alcohol consumption, cigarette smoking, unmarried state during pregnancy), but also owing to e.g. faulty prediction and determination of birth data, instrumental instead of possible natural labor, infrequent diagnosis and wrong therapy of hypothalamic conditioned miscarriages, etc.

Cancer is generally considered fatal only because its full symptoms can be seen only in the last period of an individual human life in the absence of other diseases only in 5% of cases and in addition relate to the aging of the body. In contrast, throughout the life of each human cancer cells are formed as a natural signal that there is a possibility of developing cancer in the most neglected parts of the body. As long as man understood the world as a result only the material-energetic surrounding events, he did not realize the causative force of information for the defense and repair of the organism in the treatment of diseases at the biophysical reaction level. The therapeutic aim is not only to destroy cancer cells without harming healthy tissues, but about strengthening the fight against cancer development processes already in precancerous cells on the basis
of the whole, not just medical knowledge.

Nowadays thermotherapy is well established in medicine and changes in body temperature are used in the effective prevention and treatment of neoplastic diseases as well as for the confirmation of the thermodynamic causes of carcinogenesis. Information is an integral part of the reasons for identifying the occurrence of each material event, as well as a part of each structure, and each process in its surrounding contrary to the widespread belief that information is only a distinguishing characteristic of Homo sapiens in the form of human speech, and the ability to use words in different languages creates a purely human “spoken world”, which governs the rest of the universe. Meanwhile, every word has executive power because, by defining any part of reality it differentiates itself from the environment by giving it a name or any other definition, but at the same time words are linked with the complete information field of the universe in which natural laws as discovered and described by humans interact with everything else.

For example 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. 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. Information exists as a virtual effective power (from Lat. words: virtuālis - effective, virtus - the power or virtue) in mutual continuous spontaneous alternation of two other ingredients, i.e. matter and energy of the universe, directly and/or indirectly perceived by people. 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 in the universal information field of the universe, in which the eternal natural laws exist. 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. 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. In the case of feedback of two or 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 theses models to be coherent resonance with human understanding of real world. Each such coupling of abstract ideas and their practical application resulted in resonance as the driving force not only in the person to whom information has been provided and who utilizes this information.

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: $E = mc^2$, 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 existing reality consists of atoms, while the mirrored 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 the image seen in the mirror can be stored separately in digital technique or a photograph. The image information can also be painted or even sculpted as a copy of it, which is formed from completely different atoms.

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. Single-celled organisms are considered to 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. matter and energy, and at the same time completely omitting the coexistence of information. 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.

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. 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 (dSc + dSo > 0). Thus 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. 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 (Figure 1).

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.

Recent Advances in Cervical Cancer

Figure 1: Thermodynamic branch of Cell's inner states.

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. 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 false information about virus 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 pathogy.

Carcinogenesis is a slow and lengthy process before the natural self-organization of 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 difference between emerging and cancer caused by diseases that the public knows only of course for their last stage without understanding the patients’ own leading role in
cancerogenesis.

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. 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 ribonucleic acids or proteins, because 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 (DNA). It was then that the information and energy components of nucleotide 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 cells 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.

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. 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, 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. 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.

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.

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 be shared 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 can not 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.
Informational 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. 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 of patients. They should know the symptoms and/or their feelings, where laboratory results play an important role in biochemistry, and recently more and more of-ten 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 derogation 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. 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. 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. Information has a significant impact on the lives and health of people 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. 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 any-
thing 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. Unfortunately, a similar fate befalls women trying to save a marriage through another pregnancy.

Information govern not only the distribution of matter and energy, but for example also time and space and whatever is meant by these two concepts and how they are understood, they primarily belong to the informational reality as perceived by people as love, fear, hatred, jealousy, self-awareness, etc. Each of these feelings has a beginning and its conditions, as well as all the events and their perceived causes and sources, among others, the views about the world of Socrates, Plato and Aristotle as the eternal human dream of easily understandable explanation of observed world events, i.e. the formation, existence and interaction of structures and processes. In subsequent historical periods, people living and working defined their relation to their own lives, truth and good, using to their defining speech with the possibility of saving the content. Life itself is called by different words (la vie, life, fertile), as parts of human languages, and its essence is still considered in terms of faith and humanities, extracting from the entire universe this “spoken human world”. In every civilization verbal information not only applies to an event which informs, but is in itself, as, for example, a lie, always evil in contrast to promoting the good of truth, even if it sometimes reveals the negative aspects of social life. Cancer is a most complex problem for every man, because according to its psychoneurocybernetic essence it is a natural, although suicidal advocate of living cells in multicellular living organisms. Therefore, overcoming cancer is still the subject of academic discussion in order to effectively treat patients owing to the still significant percentages of unwanted harmful effects of currently used methods and procedures.

For example hyperthermia, with its positive effects and low toxicity deserves a significant distribution, because it directly relates to the thermodynamic roots of cancer originally described using the best-understood model of cervical cancer as an informational-energetic entity. The thermodynamic cause of cancer can be seen just as an example of the disappearance of cancer cells under the effect of fever. The temperature can be measured by every human being, but its definition and magnitude present a difficulty in understanding of both concepts. No wonder that for century’s people could not understand the causes of cancer.

In the human body heat affects the anti-cancer elevated body temperature, commonly known as fever. Each body cell as an ingredient in multicellular organisms must produce hormones, enzymes, antibodies, and/or all sorts of purely indicative intercellular relays. This extra work is done through its own internal structures maintaining the whole body i.e. the other cells in the correct internal state of a person whose optimum body temperature is 36.6°
Celsius. A steady decrease and especially an increase in the average body temperature bring harm to a person who in many ways can prevent it. For this, each of its cells uses only the intracellular structures, which are not necessary to maintain their own metabolism, but are producing substances for entire organism. According to the equation of Einstein their mass can be turn on energy necessary to reorganize and ultimately to self-organize its nuclear DNA so that, they can sustain their lives with a new genome under these new conditions. Therefore, when the ambient temperature of organism to grows a few degrees, the tumor cells lack the capacity to re-adapt again their metabolism and must die in the absence of their potential energy sources, which still have the other cells of the body.

It is best to justify the clinical usefulness of discussing the model of the universe testifying to the need to replace existing theories about it, by the practice of psychoneurocybernetic diagnosis and treatment of people. On the basis of the history and clinical evaluation of possible ailments and symptoms of the patient, a doctor can order additional laboratory assessments studies, the aim of which is to confirm the initial diagnosis. According to modern medical knowledge he alone should provide a range of values of expected results. If in compliance with the forecast (pure theory) there is also the possibility of judging based on the effects of treatment (ex juvantibus), as the oldest of methods to assess the diagnostic and therapeutic. In the end, a successful effect of treatment is the most appropriate confirmation of the forecast. In case of divergence in expected results of the diagnosis (in medicine, where knowledge must always be combined with appropriate action and behavior) you need to change the diagnosis if still possible, and in the case of an irreversible operation one must judge the reasons for said operation. This happens in obstetrics in the post-natal description of the newborn maturity index in technical quanta that can and must be forecast now for a few weeks before using properly programmed devices for imaging fetal development and in multiple pregnancies - each individual child (Table 2). The psychoneurocybernetic model of carcinogenesis is confirmed in everyday medical practice by the absence of effects due to improper diagnosis or therapeutic procedures when information is incorrect both in terms of medical knowledge and the tools used.

Cervical cancer can be not only prevented, but also effectively treated in spite of increased incidence in women due to the growing number of operative deliveries and inadequate use of steroid preparations. It should be noted that the same factors remain in a cause-and-effect relationship with the occurrence of premature deliveries, e.g. about 20% of women with post-partum neurohormonal disorders have clinically recognizable precancerous states of cervix due to, among others, obstetrical haemorrhages, miscarriages and first of all premature deliveries of child. Unfortunately, the state of the newborn is assessed solely by the Apgar scale, originally intended to scoring of post-
partum breathing adaptation, but it should be described with the number of its technical quanta using six easily identifiable morphologically-functional features of the newborn, what can be done even by the mother herself (Table 2). More importantly, the level of fetal maturity can be predicted already a few weeks before birth, using standard ultrasonographic equipment with appropriate software. Only a state of maturity given in the form of technical quanta is useful in determining the full maturity of the fetus, equaling the proper date of birth determined by the simultaneous disappearance of pregnancy tolerance on the side of the mother. Statistically determined date of birth cannot be used to determine the actual birth date, just as the Apgar scale cannot determine the future health of the children, especially those born operatively. There is no reason for cesarean sections and inductions of labor in more than 15% of all pregnancies, whatever connected with increased hemorrhage, premature birth and post-pregnancy neuro-hormonal disturbances as well as an increased risk for all neoplastic diseases, not only cancer of the uterine cervix in women with the history of neuro-hormonal menstruating disorders, chronic and recurrent inflammations of the reproductive organs and long-term hormonal contraception. It requires concurrent adaptation of the nursing, prophylaxis, prevention, diagnostics, treatment and rehabilitation principles to the same level of general knowledge. This, in turn, forces doctors not only to change their opinions, but also to revaluate their professional habits, which proves even more difficult.

Human life begins with the formation of the zygote, literally at conception, but the end of his individual death is not so clearly defined, although the information in this regard does not pose any doubts. It is known that when connecting the genomes of male and female gametes of different genetic identity, the nucleus of the zygote is formed completely de novo, with the part of the information that describes the new living being as a new human being with his own unique genetic identity. Upon the death of a person atoms are released from the body to the environment again as separate entities or co-create with the other atoms singular and highly organized objects. His identity information, in the form of achievements or just memory of him does not disappear, and this is nothing else but the most important feature of living humans, i.e. life itself. Adapting the zygote to develop in the mother’s body takes place under favorable circumstances, aided by the metabolism of the cells of the fetus and the mother. This is reflected by the increase of temperature at the time of ovulation, when time comes to fertilize the egg. Cell whose micro ambient conditions do not allow for con-comitant metabolic cooperation behave quite differently. A cell threatened this way ceases to produce hormones, enzymes, etc., to use the matter of the organelles by converting their material into the required energy to adapt cellular DNA, which leads to self-organization of the tumor cell. It is at this stage of carcinogenesis that the body
can defend itself effectively using hyperthermia.

As always the clinical facts, based on observations of tens of thousands of people, are the deciding factor of general knowledge and technologies. The solution to the mystery of cancer has been made possible by recognizing information as an equivalent to matter and energy component of the universe. The problem is that man for centuries was accustomed to light penetrating through only the transparent structures, and did not take into account the possibility of penetration even through opaque objects newly discovered in the twentieth century, the radiation of neutrinos, three of which correspond to a total weight of only a single photon. The human verbal world in the twenty-first century has brought humanity the most dangerous informational disease which is the activity of people seeking power and money at the expense of society. By deception and intimidation of individuals they destroy their motivation to live and act according to their own free will and conscience.

**Individual Date of Human Birth**

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 person remains only as information in the form of his name, achievements or memory, persisting in society. 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 (259-302 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 measurements of the mother’s health. This allows one to forecast the state of the newborn and the date of his birth with an accuracy
of ± 3 days instead of ± 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, especially 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 42nd 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. 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. 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.

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 In-
International Declaration of birth in the XXI century. 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 by infonotics. 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.

Immunological Prevention and Therapy of Carcinogenesis

A high incidence of cervical cancer and high mortality rate is caused by law prevention, detection and therapy of precancerous lesions with neuroendocrinal and obstetrical origins. Cervical cancer can be promoted by many non-specific factors, including such gynecological ones as: faulty prediction and determination of birth date, instrumental instead of possible natural labor, reduction of lactation, early sexual life, wrong hormonal therapy, long lasting prescription of pills, infrequent diagnosis and wrong therapy of hypothalamic conditioned abortions and premature deliveries, eradication of neoplastic lesion without normalization of its environment. Sexually transmitted infections include, for example: chlamydial infections, gonorrhea, trichomoniasis, syphilis, chancroid, genital herpes, genital warts (caused by the human papilloma virus) and HIV. Endogenous infections include bacterial vaginosis and candidiasis, which result from an overgrowth of organisms normally present in the vagina. On the other hands iatrogenic infections are caused by the introduction of microorganisms into the reproductive tract through a medical procedure i.e. unhygienic delivery conditions and other procedures such as pregnancy termination, menstrual regulation, IUD insertion, sterilization procedures and circumcision carried out under unhygienic conditions.

In medical thermodynamics the inflammation is perceived as a phenomenon proving local and/or general states far from physiological homeostasis. The inflammation is always evidence that there is a local and/or general insufficiency of the organisms independent of the causes and reasons leading to such unstable states. Infections with bacteria or viruses may, but do not have to lead to the diseases generally referred to as “infections” in which an intensity of the symptoms and affections depends on the internal state of the organisms. Clinical course of these events proves that if the states far from equilibrium are maintained, this is potentially a dangerous situation, and
even a quite weak negative stimulus may shift them into a dissipathogenic original reason of a tumor. It has taken twenty years to achieve recognition of neurohormonal background of cervical cancer and thirty years to understand the thermodynamic cause of cancerogenesis.

Immunotherapy of cervical intraepithelial neoplasia has been introduced during the 2nd EAGO Meeting in Paris after it first presentation during Jubilee Congress of Polish Gynecologists (1985). The treatment consists of three injections every second week of 0.5 ml Gynatren (Solco-Trichovac, Lactobim) containing ca 7.108 lyophilized coccid forms of Lactobacillus acidophilus. The lactobacilli vaccine has an immunogenic effect in serum and locally in the vagina as a natural protection against many foreign pathogenic microorganisms by restoration of normal flora and transfer of surface antigens by plasmids. Table 1 presents the results of two lactovaginal vaccinations in women with CIN and infections changes. CIN was cytologically diagnosed and proved by colposcopy and in questionable cases diagnosis was confirmed by biopsy. This effect is apparently stronger in women without CIN as well as two weeks after the third injection.

<table>
<thead>
<tr>
<th>Finding</th>
<th>Day 0</th>
<th>Day 28</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIN no</td>
<td>54</td>
<td>29</td>
</tr>
<tr>
<td>CIN1</td>
<td>54</td>
<td>29</td>
</tr>
<tr>
<td>CIN2</td>
<td>33</td>
<td>17</td>
</tr>
<tr>
<td>CIN3</td>
<td>13</td>
<td></td>
</tr>
<tr>
<td>Inflammation</td>
<td></td>
<td></td>
</tr>
<tr>
<td>No</td>
<td>29</td>
<td>67</td>
</tr>
<tr>
<td>+</td>
<td>58</td>
<td>33</td>
</tr>
<tr>
<td>++</td>
<td>13</td>
<td></td>
</tr>
<tr>
<td>Lactobacillus</td>
<td></td>
<td></td>
</tr>
<tr>
<td>no</td>
<td>46</td>
<td>17</td>
</tr>
<tr>
<td>+</td>
<td>46</td>
<td>50</td>
</tr>
<tr>
<td>++</td>
<td>8</td>
<td>33</td>
</tr>
</tbody>
</table>

Some authors recognized cervical cancer as a sexually transmitted disease disregarding e.g. hormonal contraception, obstetrical hemorrhages, premature and instrumental deliveries and lack or insufficient breast-feeding as the main risk groups of cervical cancer developments not taking into account such life-style factors as tobacco smoking, narcotic substances, etc. HPV is only one of many infectious causes of dissipatogenic (precancerous) cellular state. Therefore again, first of all, it has to be advised that
in such cases there exists an effective immunotherapy using Lactobacillus vaccine since thirty years.

**Table 2: Clinical assessment of Klimek’s maturation index in newborn infants.**

<table>
<thead>
<tr>
<th>Points</th>
<th>0</th>
<th>1</th>
<th>2</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Posture</strong></td>
<td>![Image]</td>
<td>![Image]</td>
<td>![Image]</td>
</tr>
<tr>
<td>Angle of forearm to arm</td>
<td>![Image] (100°-180°)</td>
<td>![Image] (90°-100°)</td>
<td>![Image] (&lt;90°)</td>
</tr>
<tr>
<td>Pulling an elbow to the body</td>
<td>![Image]</td>
<td>![Image]</td>
<td>![Image]</td>
</tr>
<tr>
<td>Legs</td>
<td>Thinning</td>
<td>Single bald areas</td>
<td>Mostly bald</td>
</tr>
<tr>
<td>Plantar creases</td>
<td>Only on anterior sole</td>
<td>On anterior 2/3 sole</td>
<td>Cover entire sole</td>
</tr>
<tr>
<td>Breast</td>
<td>![Image] (Stepped area) bud &lt;3 mm</td>
<td>![Image] (Rounded area) bud 3-4 mm</td>
<td>![Image] (Full area) bud &gt;4 mm</td>
</tr>
</tbody>
</table>

Neither viruses, nor many other microorganisms can be classified as factors sufficient for the neogenesis. Their complete elimination, even as necessary factors of infectious diseases can only reduce the incidence of dissipation-genic cells. Infected cells or infectiously changed tissues in their final phase of existence are often recognized as a precancerous state, but their genome does not differ from other organism cells, and that is why the carcinogenesis can still be prevented by direct fighting of pathogenic microorganisms and indirectly by strengthening the body by neurohormonal therapy or vaccine immunopotentialization. For example saprophytic bacteria of the Lactobacillus vaginalis type cooperate with the organism in the direct fighting of infectious microorganisms, whose antigens they recognize. The introduction of the vaccine comprising coccidian and weakened forms of Lactobacillus vaginalis leads to the significant reduction in the inflammatory state rates and concurrently increases the number of saprophytic Lactobacillus vaginalis bacteria in women treated for infertility, in whom intraepithelial neoplasia and/or non-specific vaginitis was found.

**Causal ACTH-Therapy of Recurrent Abortions and Premature Deliveries**

During pregnancy there is increase in the production of hormones and enzymes of the placenta, the function of which has an essential meaning in the mutual mother-fetus neuro-immuno-endocrine relationship. This applies
especially to the synthesis and concentration adjustment of isooxytocinases (cystine-beta-aminopeptidase-CAP1 and isocystine-beta-aminopeptidase-CAP2), which decompose hypothalamic hormones. Any damage to the placenta (partial separation, calcification, vascular clots) or only hypoxia, leads to a decrease of the concentration of these enzymes in the mother’s blood, which automatically results in the increase of not only oxytocin and vasopressin, but also of corticotropin-realising hormone (CRH) and gonadotropin-realising hormone (GnRH). On the basis of the rate of change in the levels of CAP1 and CAP2 in the mother’s blood one can determine when the death of the fetus has – or much more importantly – could occur, or if it is in danger of miscarriage or premature birth. An important part is played also by the endocrine glands themselves, in which the biophysical processes are of great importance, since they are related both to atomic level of metabolism and purely physical blood flow and concentration of its components. One may observe underestimation of the dominance of neurohormonal hypothalamus-pituitary-adrenal axis over an analogical axis ended with gonads, which are related to adrenal glands by metabolism of steroid hormones. Excessive use of steroid hormones not only inhibits gonadal steroidogenesis, but also blocks hypothalamic stimulation of endocrine glands, i.e. gonads and adrenal glands. For instance, the use of contraceptive pills for several months excludes a cyclic activity of gonads, whose role is to prepare a potential mother not only to get pregnant but also to a proper development of pregnancy and fetus, e.g. in case of recurrent miscarriages, necessary adrenal stimulation is rarely used. What more, parts of the embryo that remain in the uterus after incomplete abortion are often diagnosed as endometrial polyps, and ovary cysts are not associated with pregnancy-induced increased activity of ovaries that are too long kept on low activity, which leads to unsatisfactory increase of ovary hormone production before their additional synthesis in the placenta.

The treatment of habitual abortions with long-acting adrenocorticotropin (ACTH-depot) leads to the desired secretion of endogenous corticoids with much better results than their synthetic analogues. It is recommended also in cases of multiple gestations, premature rupture of membranes or fetal and maternal complications, i.e. diabetes hypertension or infection. The therapy is safe and can be used multiply during all trimesters of pregnancy. The evaluation of causative therapy (0.5 mg dose/week) in pregnant patients following fertility treatment with clinical symptoms of recurrent threatened abortion stated that low concentration of maternal blood ACTH and insufficient increase of oxytocinases provide the effective hormonal treatment before the clinical symptoms of abortion become evident. What more, a correlation between serial administration of corticotropin and the mass, maturity and the fetal age of the newborn has been repeatedly shown to exist. A low concentration of ACTH in the
mother’s blood decides on the necessity of a substitution treatment. The fall of ACTH concentration is a natural occurrence only before birth in pregnancies brought to term physiologically, while at an earlier time it signals an endangerment of the pregnancy due to a miscarriage or premature birth. Indications for the treatment are neurohormonal hypothalamic post pregnancy syndrome, habitual miscarriages, a premature childbirth, shortened or nonexistent lactation after previous childbirths, long-term usage of anti-conception pills (especially during maturation years), as well as cytologically or colposcopically determined precancerous cervical states. Special group for the treatment are pregnant women who underwent infertility treatment, of which 67% show clinical and laboratory indication for its implementation.

Usually a single dose in weekly intervals during the first trimester is enough. As the pregnancy develops, the almost immediate effect is sustained for an ever increasing period of time. In the absence of enzymatic monitoring of the pregnancy one may decide on the frequency of injections via the principle of ex juvantibus. Of course a level of ACTH below 5pg/ml is an indication for a continued substitution therapy with ACTH-depot, because the hypothalamic-pituitary-adrenal axis is more significant for the viability of the fetus than the hypothalamic-pituitary-gonad axis. The role of ACTH in creating a tolerance for the embryo becomes apparent in a slight decrease in pre-pregnancy level of this hormone in women with 14.1 ± 7 pg/ml to 12 ± 6 pg/ml and a return to them in the second trimester (15.4 ± 5 pg/ml) to increase in the third trimester to the highest pre-birth levels of 23 ± 10 pg/ml, which, in contrast to oxytocinases, sharply decrease already during delivery. Also levels of CAP1 < 0.8 µmol/l/min and CAP2 < 1.4 µmol/l/min in an early pregnancy are an indication for beginning the therapy with single 0.5 mg doses of ACTH-depot, while levels of both these enzymes ≤ 4 µmol/l/min in the third trimester require their continued weekly use. A low prenatal concentration of oxytocinases on the order of 3 ± 1 µmol/l/min unambiguously point to an insufficiency in the production of neurohormones, while a substitutive therapy with ACTH-depot causes a normalization of the prenatal concentration of oxytocinases (7.8 and 8.1 µmol/l/min). The higher is the concentration of enzymes at the end of the pregnancy, the higher the neurosecretive and immunological capacity of the mother with the corresponding increase in fetal age, mass, length, maturity, and the postnatal adaptation of the infant to the values characterizing the infants of the control groups which did not need a substitutive adrenocortical therapy. The application of ACTH-depot results in the disappearance of symptoms of a premature birth without the need for tocolysis and leads to the decrease of breathing disorders in infants. Newborn’s maturity index shows a high positive correlation with fetus age, mass and the length.
The pregnant patients in need of substitution therapy with a clinical endangered pregnancy miscarried in a whole 80% of cases before the introduction of ACTH-depot therapy in obstetrics 50 years ago. The best results are obtained in habitual miscarriages due to the hypothalamic insufficiency of the mothers because the damage to the neurosecretory brain cells is permanent, and only the substitute therapy is an effective procedure.

**Conclusion**

Prolongation of human life achieved by medicine has resulted by a longer period of old age which is favorable for self-organization of dissipative neoplastic cells. Therefore, as early as in the period of pregnancy reproductive cells should be protected by taking care of gonads, due to their prime importance in the intergenerational passage of life. So far, man has not interfered so often in reproduction on a cell level. Disturbance of systemic psychimmuno-neuroendocrinological autoregulation causes development of dissipathogenic state of cells. Germ cells, as any other cells of embryo, fetus, neonate and parents are subject to psychoneurocybernetic laws with the second law of thermodynamics being dominant and extended with dissipative structures. Pathological states of cells may regress following neurohormonal normalization and/or immunopotentialisation of their environment, which improves the results of oncological treatment, especially in early stages of the disease. For example, potential and necessary conditions for development of cervical cancer fall within a wide range of factors, from genetic hereditary states to psycho-emotional procreative and sexual reactions. The most common, but at the same time the easiest to eliminate factors - are the constantly increasing cases of abnormal course of pregnancy and birth due to iatrogenic and medial causes, as well as long-term and inadequate use of contraceptive pills. In contrast to neoplastic diseases, in infectious diseases it is possible to isolate a cause of the disease from the affected organism, e.g. a virus or bacteria and use it to infect other people. On the other hand, numerous attempts to cause neoplasm in healthy subjects by implanting neoplastic cells in their organisms have not been successful.

The introduction of nuclear magnetic resonance (NMR) imaging to the medicine made it possible to verify the thermodynamic theory of neogenesis by recognizing and differentiating between cancerous and precancerous cells, based on cervical and vulval cancers. Thus, completely new opportunities appeared for primary oncological prophylaxis by influencing the environment, and not only cell systems at risk of ending their metabolism in the present form of life among other due to the growing number of operative deliveries and inadequate use of steroid preparations. Recently, an increase of risk for this disease was showed in connection with the use of contraceptive tablets and, obviously, the risk additionally grows when
associated with the infection. Only decreased efficiency of biochemical, neurohormonal and/or immunological mechanisms leads to infectious states which, irrespective of their bacterial, viral or parasitic etiology, are only the necessary, but not the sufficient causes of neogenesis. It is not the virus, but only the infection caused by the virus that becomes an oncogenic factor, as the germ itself is a sufficient cause of formation of papilla, which indicates the infectious disease. The most effective prophylaxis of neoplasms is adequate upbringing and educating every human being to live and work in line with the auto-tel-eological principles of the concordance between actions and recognized ethical values. The cause of neoplastic diseases (cancer) is a natural and common phenomenon of self-organization of living cells endangered with death into more efficient dissipative spatio-temporal structures, at the expense of their environment. In relation to humans it means that carcinogenesis cannot be eliminated, but it is possible to effectively prevent development of neoplastic diseases, which are more often curable thanks to primary and secondary prevention.

Iatrogenic and social factors predisposing to cervical cancer are well documented and cannot be replaced by any, especially prematurely advertised, medicine. What is particularly evident is the lack of sufficient primary prophylaxis of all diseases in women, which results from following main of obstetrical causes: 1. the increase in the number of operative deliveries and prematurity due to lack of correct understanding of the relative duration of pregnancy, 2. failure to conduct the measuring of the blood levels of oxytocinases (CAP1 and CAP2) as the most stable enzymes regulating the neuroimmunological state of pregnancy, 3. use of dexamethasone and betametasone instead of adrenocorticotropic for preventing miscarriages and prematurity of neonates, and 4. discounting the incidence of the hypothalamic neurohormonal insufficiency syndromes as the large causes of the pathological course of pregnancies.

A multicellular organism, as well as each individual cell, has to exchange matter, energy and information with its closest environment, which is the subject of psychoneurocybernetics. An intrinsic quality of human ageing is the loss of strength and well-being, what defined as thermodynamic entropy also occurs in other natural phenomena. The more disorganized the system (e.g. organism, cell, nucleus or just cell cytoplasm) is, the greater the losses are. If, for any reason, the cell reduces the production of its own entropy, it must in turn increase entropy in its environment to remain alive, by means of broadly understood dissipation of matter, information and energy. Such excessive dissipation of matter and energy by neoplasms (new systems) in the organism (environment) explains the more and more devastating character of subsequent conditions and disease symptoms. This characteristic feature of cancer appears rapidly in the new dissipative form
of cell life. A neoplastic cell is formed in replacement of and out of cells, as a direct consequence of self-organizing pre-cancer cells, whose further existence is disabled by extreme impairment of their metabolism.

Therefore, a neoplasm as a dissipative structure begins its existence at the end of the life of a dissipathogenic cell. Each neoplastic disease possesses a variety of forms as well as a unique identity of the neoplasm as its own sufficing cause. This needs for an early detection, as well as an etiological treatment of pre-neoplastic states which can be ever more precisely detected with new methods based on psychoneuroimmunology. For example, cryosurgery, laser therapy or radical electrocautery are all effective in eradicating cervical cancer, but not the dissipathogenic state (cancerogenic) of uterine cells. Consequently this local ablative therapy must be followed by medical restoration of the body’s defense mechanism to prevent the recurrence of the disease. Only neuro-immunotherapy as a mean of treating the whole body can alone prevent and cure the dissipathogenic states, as a final causes of carcinogenesis of any part of the body, not only the uterine cervix. Also primary prophylaxis of neoplasms requires that not only the dissippathogenic state of cells be prevented, but also their tissue surrounding be normalized to head off the risk of the self-organization of neoplastic forms of life.

References
Recent Advances in Cervical Cancer


