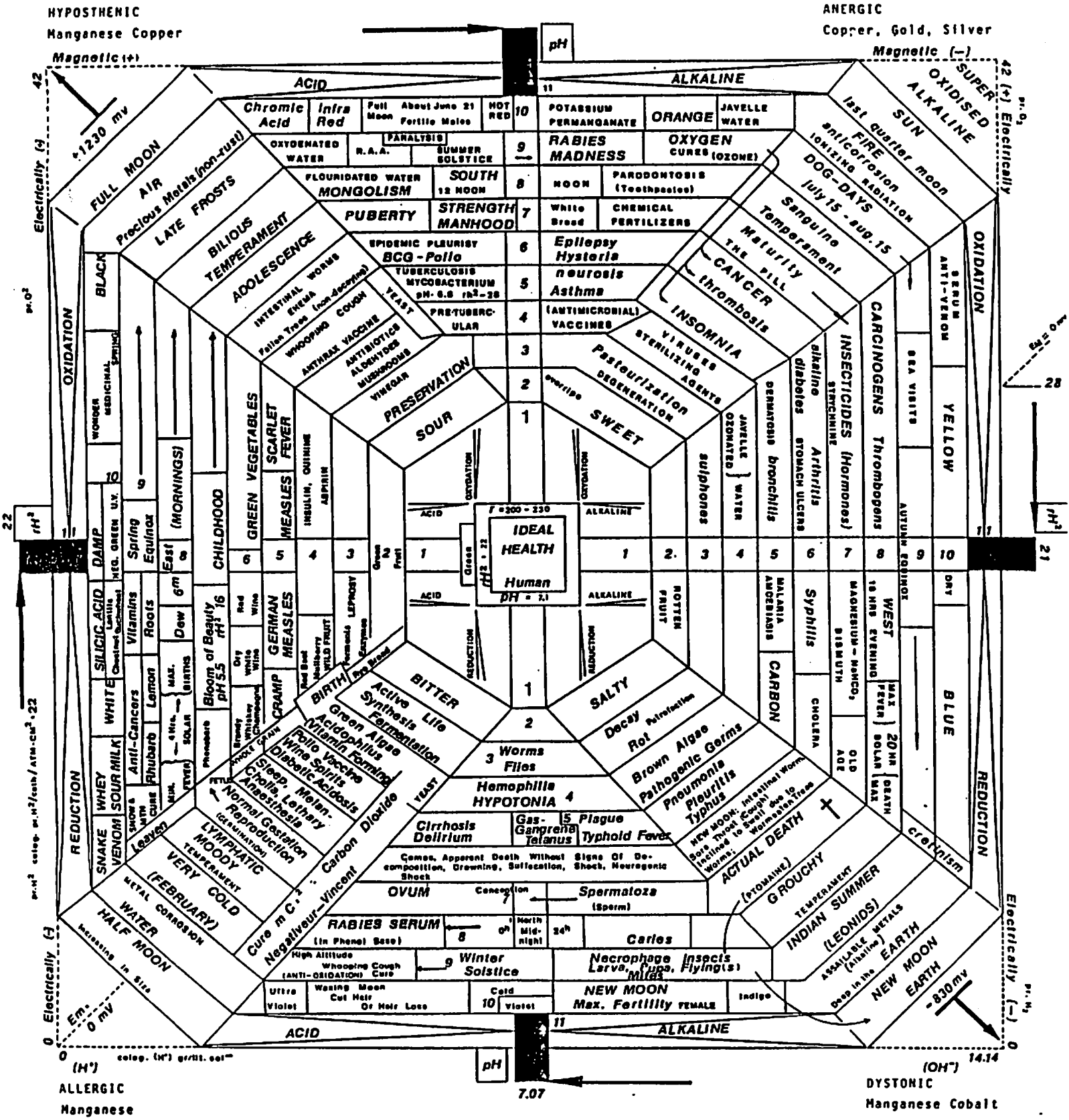
Vincent
BIO··ELECTRONOGRAM



VINCENT BIO-ELECTRONICS, THEORY AND APPLICATION

I. Introduction

All biology is governed by the pH value (ionic potential for acidity or alkalinity) and the rH value (electronic potential of the pH value)[1].

The biochemical reactions are actually possible only quite limited within the relatively narrow confines of the ion-electronic factors. Hence, the limiting normal vlues, for health and life to exist must remain within these narrowly defined biological limits.

It is the aim of this study to show a seemingly laborious technique, the importance of which nobody will question. The relatively slow progression (as is true for all avant-guarde medical problems) justifies the highest hopes for this technique. The progression is continuous and fruitful. Bioelectronics helped smooth the path for strictly scientific medicine and explained numerous up-to-date inexplainable phenomena. It will question the theories about etiologies and various classical conceptions in spite of the opponents who are then forced to change their views.

Bioelectronics can already define the extent and direction of the pathological deviations in relation to health values and offers the possibility to correct them. Further bioelectronics gives foundations to the relatively vague conception of the "terrain" by lending to its scientific credibility.

The term"terrain" is very important not only in different areas of biology, preventive medicine and therapy but also for laboratory research, for the effectiveness of medications and for fundamental research. In this context, we recall what Pasteur admitted after he created microbiology and shortly before he died: "Claude Bernard was right, the microbes don't mean anything, everything depends on the "terrain"."

1. for detailed definitions - see Chapter III

The electronic factors which we primarily want to examine are not numerous. But they themselves define the primary characteristics of all forms of life of the animal or plant kingdom through the labil balance of the acid-base systems and the cathodic polarization by the electrons. This balance fluctuates around an average value that is defined by a series of chains of actions and reactions in which one tendency is always expressed as being more or less dominant.

This balance is the result of various antagonistic actions and depends on three main factors: the pH value, the rH_2 value and the r value. These three electromagnetic factors are necessary and sufficient for the description of a biological condition.

Prob. Janos Kemeny, Co-vice Chancellor and Professor for Biomathematics at the Polytechnic School in Budapest, proved in 1953 that any biological "terrain" can be represented truly and completely through only three factors.[1]

1. A mass factor or factor of the kinetic energy;
2. An elasticity or sensibility factor;
3. A viscosity of thermal factor.

In July 1962, Prob. Vincent gave a lecture at the first "International Convention for Medical Electronics" in Paris, about bioelectronics. Its principles were immediately formally opposed by an American and an English professor. Prof. Kemeny replied and pointed out the results of his research in biomathematics which were already published in 1952. He definitely took the opposite view of his opponents and reinforced the absolutely representative value of the three bioelectronics factors:

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[1] Janos Kemeny -- "Beitrag zur physikalischen und mathematischen Erklaerung des Reaktionsvermoegens der lebenden Organismen" - Bulletin der Akademie der Wissenschaft, Berlin - February 1953 - Revue Generale des Sciences, Paris. T.LX. Nr. 7 und 8 - 1953.

1. The pH value; as the statistical value of the proton (H^+) is definitely a representative factor for the mass or the kinetic energy. Thus the pH value plays a pre-eminent role for any manifestation of vital energy and represents the magnetic potential. The ionic flexibility depends on the pH value.
2. The rH_2 value; as the statistical value of the electron and produced through the double bond 2 (H^+) + 2$\bar{e}$ through the polarization potential of H_2 , is a sensibility factor par excellence because it measures the electronic potential.
3. The r value; or specific electrical resistance as measurement for the viscosity, is indeed the main factor for the heating and it represents the resistance against any kind of warming and the electrical conductivity K, that is the electrical capacity C = f (K), which can increase their warming.

Bioelectronics considers "life as a whole" because the magnetic, the electrical and the dielectrical factor of a biological condition are determined. And it is "superfluous and futile" to look for more to define "life". This is especially true when the values of the following substances are measured : of the blood, saliva and urine.

Thus Prof. Kemeny proved brilliantly that no more than three factors were necessary to define a biological condition and the arguments about life being more complicated were finally dismissed.

II. Definition and Reciprocal Dependency of the Electronic Factors

The Magnetic Factor pH

First we would like to point to the fact that ions are atoms or groups of connected atoms which either have emitted or attracted an electron, so that the electrically neutral atom is changed into a positive or negative ion.

Water (H-OH) consists of molecules, some of which are split into H^+ and OH^- ions. If the water contains the same amount of H ions and OH ions it is - in it's pure state - in accordance with a neutral milieu. A characteristic pH value of 7.07 could be determined through measurements and calculations. In biology, among the mineral ions which participate in various reactions, the HO^- ions are special because their reciprocal concentration depends on the degree of acidity (surplus of H^+ ions) or on the degree of alkalinity (surplus of H^- ions).

Chemistry teaches us that each atomic bond containing one or more H ions is an acid; if it contains OH ions, it is a base, and if H and OH are absent, it is a salt. This leads to the conclusion that all chemistry is based on the two constituting ions of the water, $H_2o = (H^+) + (OH^-)$, and that these effect the specific quality of every compound through their presence or absence.

The pH value as the expression of the (H^+) ions or the proton concentration represents definitely a magnetic value, because the proton as a measuring element of the hydrogen, participates as a micro magnet which generates a magnetic field. If the pH value is acid (less than 7.07)and there is a surplus of protons, the magnetic field is positive and is equivalent to the magnetic field of a positive pole. If the pH value is alcaline (more than

7.07) and therefore, a deficiency of protons exists, the magnetic field is negative and is equivalent to a negative pole.

The absolute value of the pH value varies from 0 (maximal number of positive ions H^+) to 14.14 (max. number of negative ions OH^-). The neutral pH value therefore is 14.14/2 = 7.07.

It is difficult to judge the extent of the ion fluctuations of the various succeeding pH values because of the relatively short scale. It therefore has to be mentioned that the ion concentration for each unit of the pH value is the function of a 10th potency (because it refers to the so-called cologarithmic expression) for which the H ions of OH ion concentration is 1/10n. This for instance results in a tenfold decrease of the H ion concentration between the pH values 6 and 7.

The opposite is true for OH ions which increase ten- or hundredfold. We will talk more about this in chapter III.

Numerous measurements showed that the scale of the biological values of the blood which correspond to the limiting value, lies between 6 and 9.4. The condition of perfect healthy young people corresponds to an average value of 7 to 7.2.

The Electrical Factor rH_2

This factor refers to a coefficient which indicates the value of an electron potential. It defines the electronic charge for a specific pH value or, in other words, the cathodic polarization potential which corresponds to the pressure of the balance between the molecular hydrogen (H_2) and the molecular oxygen O_2. This value is measured electronically and is the expression of a complicated function which considers the pH value and the reduction-oxidation-potential E of the solution. Later on, we will see that $rH_2 = 2pH + 33.33 \times E$;

to 42 (max. oxygen pressure). 28, therefore, corresponds to the neutral value, for which the H_2 - and the O_2 pressure are identical. The increasing values from 28 to 42 correspond to increasingly oxidized conditions caused by electronic deficiencies. The decreasing numbers correspond to increasingly reduced conditions, for which an increasing electronic charge exists (refer to the bioelectronigram).

We want to emphasize that the rH_2 values are linked tightly to the pH values. It does not make sense, therefore, to present a rH_2 value without the corresponding pH value, and vice versa. Two chemical elements with identical pH values but with one rH_2 value of 10 and another of 35, are very different in their characteristics and effects. Each of them can act as a remedy or a poison, according to the pH- and rH_2- values of the living organism in which the reaction takes place.

In biology the scale of the values which corresponds to life lies between the limiting values 15 and 35. The average value which corresponds to a perfect healthy young human being, is 22 (21 to 23).

The Dielectrical Factor r

This factor represents the electrical volume resistivity through which the molecular concentration can be measured in an electrolytical milieu. Together with the pH- and rH_2 values the properties of the solutions can be determined precisely, and so as a matter of fact the expressions of life, because life is only possible within certain limiting values. The value of the osmotic pressure can also be determined by the volume resistivity which mirrors minutely the dielectrical properties, because the osmotic pressure is a reverse function of the dielectrical properties.

A low volume resistivity corresponds to a high concentration. This is

a characteristic of normal or premature old age and of several pathological conditions.

On the other hand, a low concentration and a high volume resistivity of maximal 250 corresponds to a healthy state of being supposing the pH- and rH_2 values are normal. (Above 250 demineralization starts and certain psycho-pathological conditions occur.)

The limiting value at the terminal stage of degeneration corresponds to a minimal value of the volume resistivity of the blood of 100 to 120 ohm. The average value for perfect health lies between 190 and 210 ohm for an average adult, and between 220 and 250 for a sportsman.

Interrelations between the Electronic Factors

The three factors pH, rH_2, and r are connected through certain relations. With the help of these relations a diagram (electronigram) can be made where the results are entered, and from which the pathological development of the "terrain" can be read. The interdependence of the three factors can be proven mathematically through the relations which result in the classical formula of Nernst, and which go back to the second law of thermodynamics:

$$E = \frac{RT}{2F} \log \frac{2H^+}{H^2},$$

E represents the measured potential in proportion to the hydrogen electrode as reference potential;

R = the constant for full gaseous condition;

T = absolute temperature

F = the charge of a monovalent ion-gram = 96,500 coulombs.

The "2" in the division shows that there are 2 protons in the system, $2H^+$, and 2 electrons, $2\bar{e}$, according to the reversible reaction: reduction-

oxidation:

$$H_2 = 2(H^+) + 2\varepsilon$$

The hydrogen ion concentration is represented through the logarithm of the reversed value of this concentration (the so called cologarithm of the pH value); likewise the rH_2 value which represents the logarithm of the reversed hydrogen molecular concentration, has to be introduced into the formula. The value of E becomes:

$$E = \frac{RT}{2F}(rH_2 - 2pH)$$

Therefore (with $R/F : 0.000198, T = 273 + t, t = 30°C$)

$$E = 0.000198 \frac{303}{2}$$

and finally $E = 0.03\ (rH_2 - 2pH)$ (1)

therefore $rH_2 = 33.33\ E + 2pH$ (2)

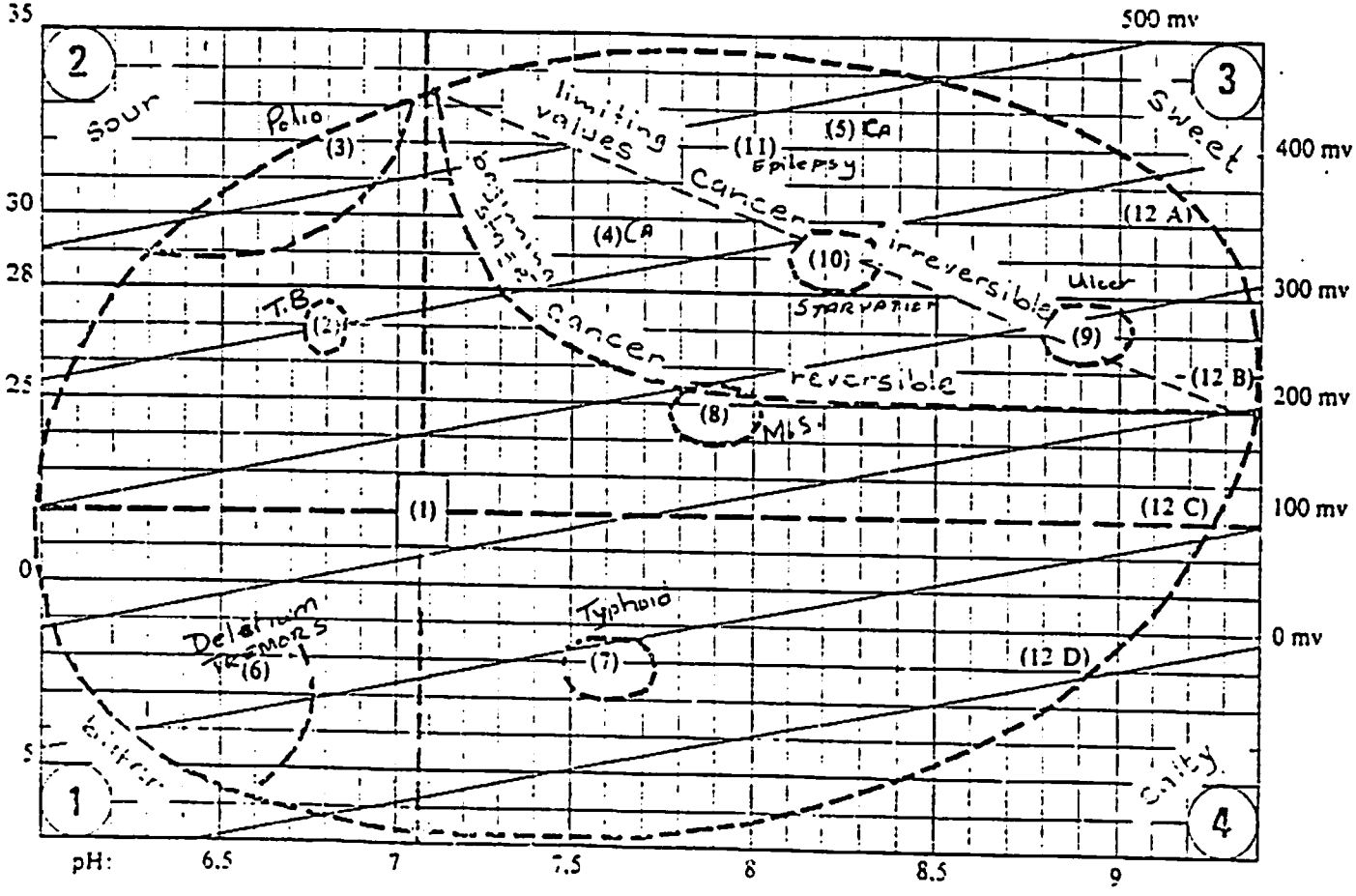
and $pH = 1/2\ (rH_2 - 33.33)$ (3)

These relations show that the three factors are very closely related, and in such a way that it is impossible to look upon one of them apart from the others as this happens often for pH values. As we have already seen, a pH value can be adjoined to very dissimilar rH_2 values, that is, to various unlike physiochemical properties. This is verified by the bio-electronigram which we will examine.

Diagram 1

	pH	rH_2	r
limiting values of life (minimal and maximal) for blood	6-9	15-35	100-120 mini
reference point (1) = perfect health	7-7.2	21-23	190-250
AVERAGE VALUES OF VARIOUS ILLNESSES:			
reference points:			
(2) tuberculosis	6.8	28	180-140
(3) poliomyelitis	6.7	31	120
(4) cancer, beginning stage	7.2	31	119
(4) cancer, reversible	8.1	29	118
(5) cancer, irreversible	8.5	32	120
(5) cancer, final stage	9.4	29.4	105 (death)
(6) delirium tremens	6.57	18.2	127
(6) delirium tremens	6.3	16	100 (death)
(7) typhoid	7.6	18	140-160
(8) multiple sclerosis	7.9	25	130-140
(9) ulcer, gastrectomy	8.9	27	101 (death)
(10) starvation	8.2	29	101
(11) epilepsy	>8	>32	>200-400 and more
(12A - 12D) old age (over 95) shortly before death			between 130-95

rH₂ Bioelektronigramm Diagramm Nr. 1



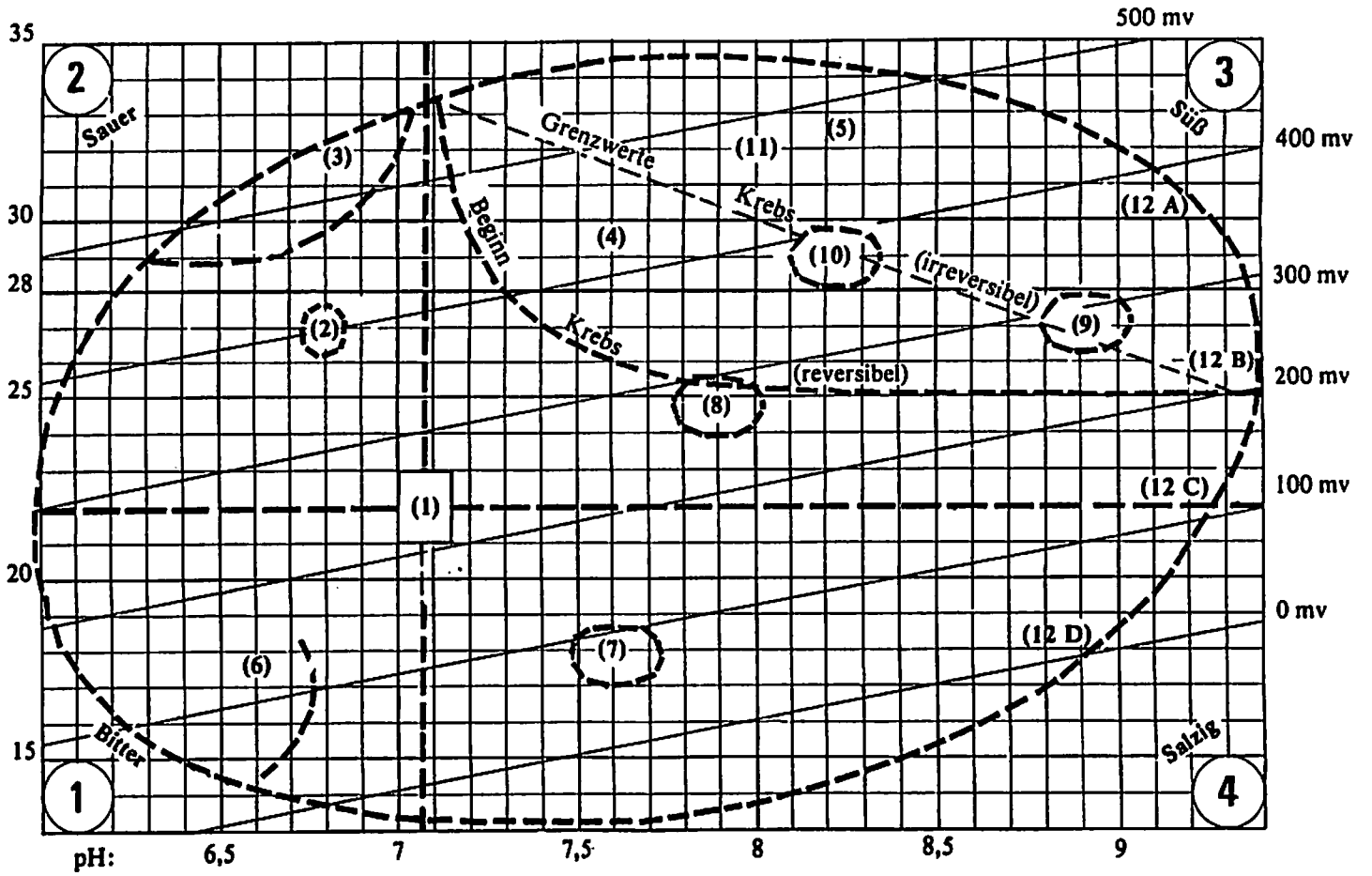
Note: The intersection of pH = 7.07 and rH_2 = 22 divides four sections which concretize the term "terrain":

1. acid and reduced; –
2. acid and oxidized –
3. alkaline and oxidized;
4. alkaline and reduced.

neutrality pH = 7.07 – acid: pH $<$ 7.07 – alkaline: pH $>$ 7.07

neutrality rH_2 = 28 – oxidation $rH_2 > 28$ – reduction $rH_2 < 28$

rH_2 **Bioelektronigramm** Diagramm Nr. 1

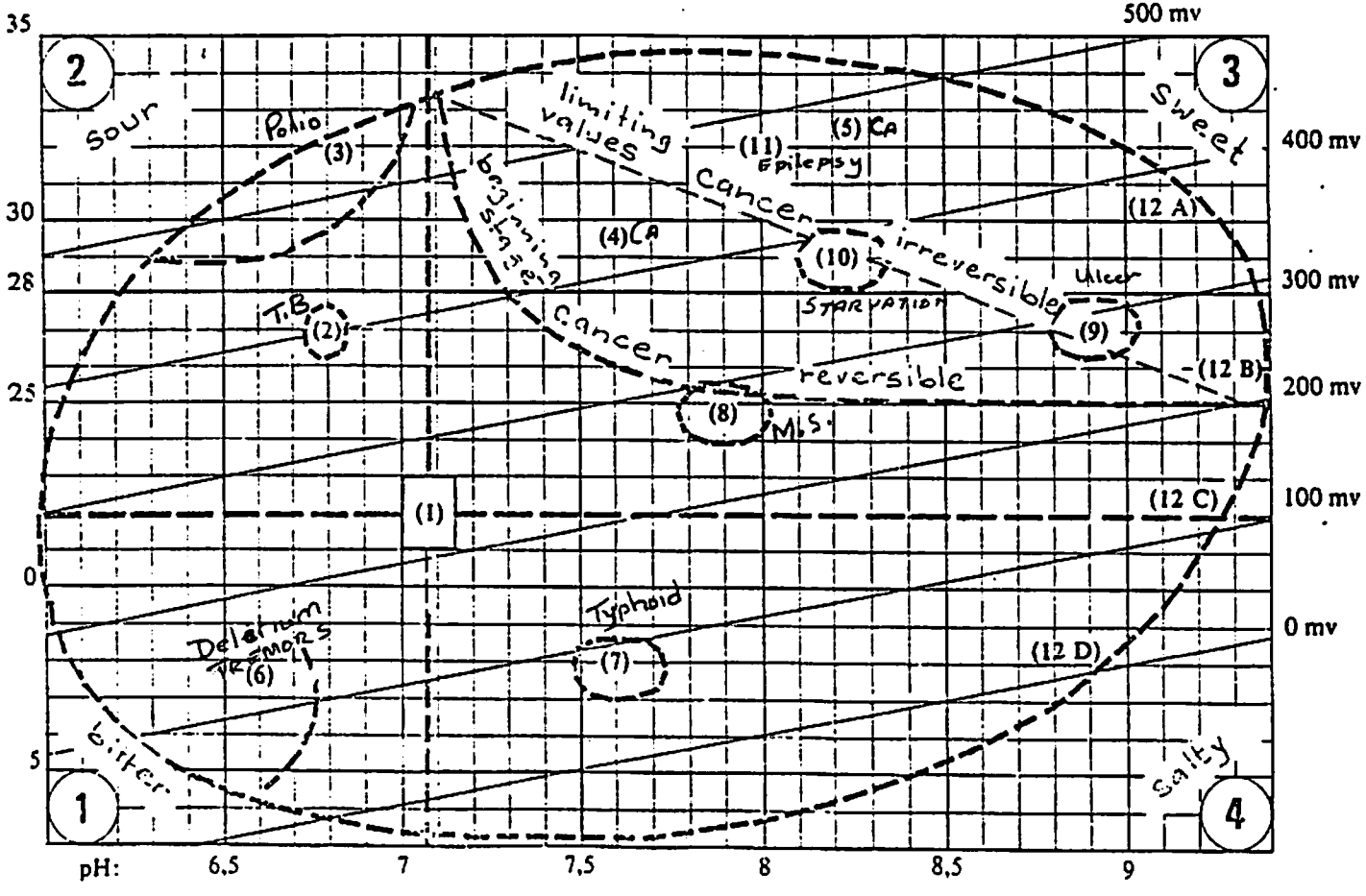


Neutralität pH = 7,07 – Sauer: pH < 7,07 – Alkalisch: pH > 7,07
Neutralität rH_2 = 28 – Oxydation rH_2 > 28 – Reduktion: rH_2 < 28

	pH	rH_2	r
Grenzwerte des Lebens (minimale und maximale) für Blut	6–9	15–35	100–120 mini
Bezugspunkt (1) = vollkommene Gesundheit	7–7,2	21–23	190–250
Mittelwerte verschiedener Krankheiten:			
Bezugspunkt (2) – Tuberkulose	6,8	28	180–140
Bezugspunkt (3) – Poliomyelitis	6,7	31	120
Bezugspunkt (4) – Krebs-Beginn	7,2	31	119
Bezugspunkt (4) – Krebs reversibel	8,1	29	118
Bezugspunkt (5) – Krebs irreversibel	8,5	32	120
Bezugspunkt (5) – Krebs Endstadium	9,4	29,4	105 (Tod)
Bezugspunkt (6) – Delirium tremens	6,57	18,2	127
Bezugspunkt (6) – Delirium tremens	6,3	16	100 (Tod)
Bezugspunkt (7) – Typhus	7,6	18	140–160
Bezugspunkt (8) – multiple Sklerose	7,9	25	130–140
Bezugspunkt (9) – Ulcus Gastrektomie	8,9	27	101 (Tod)
Bezugspunkt (10) – Verhungern	8,2	29	101
Bezugspunkt (11) – Epilepsie	> 8	> 32	> 200–400 und mehr
Bezugspunkt (12 A–12 D) – Greise (über 95) Kurz vor Tod			zwischen 130–95

NB: Der Schnittpunkt von pH = 7,07 und rH_2 = 22 grenzt 4 Bereiche ab, die den „Terrain"-Begriff konkretisieren: 1 – sauer und reduziert; 2 – sauer und oxidiert; 3 – alkalisch und oxidiert; 4 – alkalisch und reduziert.

rH_2 **Bioelektronigramm** Diagramm Nr. 1



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(12A - 12D) old age (over 95) shortly before death			between 130-95

III. The Vincent Bio-Electronigram

a) The "terrain" concept and its pathological changes

Through the interdependence of the three factors the relatively vague "terrain" concept gets a more scientific character. In spite of the variety and dissimilarity of the pathological conditions, these can always be coordinated with one or the other of the four physiochemical conditions: 1. acid and reduced; 2. acid and oxidized; 3. alkaline and oxidized; and 4. alkaline and reduced. Numerous bio-electronimetrical verifications have shown that the pH value and the rH_2 value are not always constant, and that the "buffer capacity" therefore is almost always exceeded.

The bio-electronigram (diagram 1) shows that the characteristic factors for the condition of absolute health are confined to a rather limited biological range (reference point 1). This again is determined by the limiting values which are still compatible with life (see the eggshaped curve). Beyond this range of absolute health, the direction of the ion and electron shifting therefore corresponds to four basic directions. These correspond to the development of different pathological conditions.

In this diagram the four sections making up the "terrain" are located around the intersection of pH = 7.07 and rH_2 = 22, which corresponds to the condition of absolute health. But is has to be pointed out that the definition of the four conditions which correspond to the four segments have to be looked upon as quite relative because a given point in each of the segments can be more reduced or oxidized than another one, although it is in the reduced or oxidized segment. The same is true for the pH value.

Several characteristic deviations for various diseases are noted as examples. Measurements on a group of 200 healthy persons, age 20-25 years, showed that the

value which corresponds to a perfectly healthy human adult lies near the neutral pH value. The scope of the pathological change can be defined by a comparison with the value for perfect health: Reference point (1) value of absolute health, (2) tuberculosis, (3) spinal polio, (4) reversible cancer, (5) irreversible cancer, (6) delirium tremens, (7) typhus, (8) multiple sclerosis, and others.

b) Biochemical and pharmacodynamic reactions

The diagram I in which the two pH values are recorded on the abscissa and the rH_2 values on the ordinate, shows a kind of parallels slanting to the left which record the value of the redox potential E for each intersection of pH and rH_2 in millivolt (mv). The inbetween values can be calculated by interpolating or with the help of formula I. The redox potential determines the velocity of the intracellular biochemical reactions. And the chemical and energetic changes which result from the metabolic and energetic exchange between the intra- and extracellular milieu, are possible only through the reaction of specific catalysts, namely the diastasis and enzymes. These catalytic processes which accelerate the metabolism play a primary role in biology.

The enzyme activity reacts very sensitively to the physical and chemical factors of the milieu in which it occurs, and therefore there are blocking pH and rH_2 values which can slow up the procedure of the reactions remarkably. The maximal effect of any reaction depends on an optimal pH value and the redox potential E. The activity of the diastases is comparable to the oxidation reduction phenomena. It therefore can be retarded or accelerated according to the redox potential of the respective system.

("All phenomena of the chemical synthesis which are characteristic for life, are governed by the concept of the redox potential" - Polonowski).

Thus the diastasis effects which depend on activation and inhibition processes, represent a very important antagonistic system in biology, a system which determines the normal life rhythm. We therefore can imagine that the changes of the electronic factors of the blood increasingly can disturb the process of the reactions, and that the "terrain" slowly will become too acid or too alkaline, too oxidized or reduced, so that pathological changes are likely to occur.

The importance of the bio-electronigram and the bioelectronic measurements thus becomes obvious for the determination of the effect of medications. With their help the properties of the medications can be made known through carefully chosen, reciprocally effective potentials. From these medications a maximal effect is expected for removal of the established deviations.[1]

The various medications (phytotherapy, hormones, homeopathy, aroma therapy, chemotherapy) change the electronic values and have a balancing and positive effect if they work in the right direction. But they can be damaging if they work in the wrong direction.[2] The knowledge of the electronic factors of the blood and other physiological fluids therefore seems to be essential in order to correct the energy exchange of the cell, that is, on the most primitive and at the same time the most complicated plane on which life-determining phenomena happen.

Certainly, we can assume that it will be necessary to apply the bioelectronic tests to the whole of the pharmacopeia. With this intention, Prof. Steinmetz tested various products with the help of the Vincent bio-electronimeter, especially 320 complete water-soluble mineral and organic salts. This ample study can be ex-

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1 According to the directions of L.C. Vincent a bio-electronimeter was built with which (within minutes) the three factors pH, rH_2, and r can be measured exactly and simultaneously from a single sample (blood, urine, saliva) - Documentation S.O.P.E.L. - BP 12 - 63 200 Riom.

2 The therapy damages, specially in Great Britain, through thalidomide (contergan) which have crippled more than 400 children could have been prevented through this method.

amined at research labs and with medical authorities, and can be of great benefit.[3]

c) Shifting of electrons and energetic balance

Consider that 60-90% of the weight of all our food from plants or animals consists of water, and thus the water is most essential for our food and for maintaining life, but that life, on the other hand, is a phenomenon defined by electrons. Consequently life is only possible through water, because only with the help of water ionization- and electronization phenomena as well as osmotic pressure can be produced.

The importance of water is recognized for all of biology, but its essential necessity for the production of the electromagnetic phenomena which are most important for life, is less acknowledged. It is important, therefore, to look into further aspects.

We have seen that the H and OH ion concentrations (=C) vary from one unit of the pH value to the next one by a factor of 10, and that the balance between H and OH ions corresponds to the pH value 7. The extent of this change can be represented by a simple calculation.

According to the number of Avogadro, a moleculogram theoretically contains $6.02 \cdot 10^{23}$ H^+ ions. Thus one liter of water with a pH value = 7 contains:

$$10^{-7} \text{ gr (of } H^+) = (6.02 \cdot 10^{23} \cdot 10^{-7}) = 60.10^{15}$$

that is in a cubic millimeter:

$$\frac{60 \cdot 10^{15}}{10^6}$$ 60 thousand millions H ions or protons

Thus for a pH value = 8 (10 times smaller): 6 thousand millions H ions, and for a pH value = 6 (K 10 times bigger): 600 thousand millions H ions.

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3 E.P. Steinmetz, prof. at the Pharmaceutical Faculty of Nancy: Bio-electronics and its application for the chemical analysis; (Revue de Chimie analytique, Nr. 8, vol. 41, August 1959; Revue de pathologie générale Nr. 720).

These numbers show why apparently small changes of the pH value have an enormous effect on the biological balance if they refer to the blood, and that over a long period of time they can lead to pathological disturbances.

For a pH value = 7, with 60 thousand millions ion per cubic cm, the concentration for a man of an average weight of 70 kg (154.3 lbs.), and whose intra- and extracellular fluids make up 70% or 49 kg (108 lbs.), you will get:

$$C = (60 \cdot 10^9) \cdot (49 \cdot 10^6) = 2.94 \cdot 10^{18}$$

That is 2.94 trilliards of positive charged H ions and the same number of electronegative OH ions. But if the average pH value of the blood is over 7, the number of the OH ions increases, and vice versa; their product $(H^+) \times (OH^-)$ stays the same. The variations of the ionization thus are reactions (acid $\rightleftharpoons$ alkaline) which correspond to the electron shifts.

After looking into these significant effects of the pH value it is easier to understand the importance of the water for the human organism. Now it is obvious that there are ongoing electromagnetic processes within the human body which are influenced by various factors. These are especially the pH value (the magnetic factor), the rH_2 value (the electrical factor), and the r value (the dielectrical factor), which themselves depend substantially on the food intake, and the drinking and cooking water.

Because this study has to be as short as possible, it is difficult to elaborate on the electronic changes which occur through the oxidation-reduction phenomena. Thus the following table contains the various elements which participate in the reactions. These reactions correspond to electron movements (electron attraction or emission), that is finally gains or losses of negative electricity and gains or losses of positive electricity.

Synoptical overview of the oxidation-reduction reactions

Oxidation:	
gain on:	loss on:
oxygen O_2	hydrogen H_2
halogens	protons
alkalinity	acidity
positive electricity	electrons as negative electricity

Reduction:	
gain on:	loss on:
hydrogen H_2	oxygen O_2
protons	halogens
acidity	alkalinity
electrons as negative electricity	positive electricity

P.S. We want to point out that the hologens, which are contained in the blood, are mentioned in this table, because they have a stongly oxidizing effect in the presence of water.

In chapter III (a), it was said that the perfect biological balance (reference point I on the diagram 1) lies around the neutral pH value and in the absolute reduction range (rH_2 = 21 to 23) in which the electronegative charges prevail. But because each point in this range can be more reduced or oxidized in relation to another point, the negative charges increase or decrease, and the positive charges themselves increase or decrease.

At a certain value ($rH_2 > 23$), the charge fluctuations lead to disturbances which first bring about nervousness or nervous exhaustion through a loss of negative electrical energy or surplus of positive electrical energy. This imbalance is mainly the origin of sleeplessness and the common condition of constipation through decreased

innervation and peristaltis. An increased imbalance leads to premature old age, degenerative illnesses, infarctions, and carcinomas. Chapter V will show further that this is the result of an electrical imbalance of the cell, which has developed over a shorter or longer period of time.

Various scientists did research with the intention to restore the disturbed balance. Their practical results differ. They are especially about generators of various types available on the market. They are effective more or less according to frequency and potential. Additionally the following devices are worth mentioning: the generator of electromagnetic waves of P. Nicolardot[1] - emission or attraction of negative or positive electrical charges; the "negativeur" of L.C. Vincent - the simplest solution - which brings the body in connection with the earth potential, and which with great functional dependability effects the natural discharge of the surplus positive electricity with the help of an oscillation circle and a diode. And then there is the generator of "negative impulses" of medium frequency of Ch. Laville.[2]

It will be of interest to the physicians who were alerted to the astounding results of acupuncture that there is a remarkable similarity between the conclusions which result from the theoretically and practically applied electronic biology and the foundations of the everything-determining yin-yang, the principle of traditional Eastern medicine. This medicine, thousands of years old, is mistakenly attributed to the Chinese. Actually it traces back to the ancient civilization of the Pacific, which has been eradicated by the Flood.[3]

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1 L. Roujon - Physique moleculaire et energie catalytique en biologie (Paris 1965).

2 This device is made by Sopel (B.P. 12-63200 Riom).

3 "The lost paradise of MU" vol. I and II by L.C. Vincent, edition source d'or (BP 20) 63200 ("Le paradis perdu de MU)

It has been proven by bioelectronics that in acupuncture in which the vital energy corresponds to a certain balance between two opposing, yet complementary energies, namely the yin (negative) and the yang (positive), the yang illnesses are characterized through increased pH- and rH_2 values. They also show a decrease of the volume resistivity r through a surplus on electrolytes. The opposite is true for the yin illnesses.[4]

IV. The water in our diet and its influence on health

Water plays an essential part in biology. Extensive explanations would be necessary to present the problems of water in either case, whether it is beneficial or detrimental to our organism. In this treatise we will confine ourselves to the most essential reflections which are necessary for understanding the issue. Jean Rostand already wrote: "Each food composition is actually a medical prescription", and Pasteur said that the "90 % of all illnesses can be related to our 'drinking habits'."

In spite of extensive research about drinking water the concept of "purity" remained relative and obscure, because purity has been viewed exclusively in relation to the bacteriological purity. The content of mineral salts of the city water is approximately measured out, and a total hydrometric titer (H.T.) which lies between 15 and 30 is accepted for human nourishment. This is also true for the water containers where it does not create too much calcium deposit. But this hydrometric titer is much too high, considering that the best water has to be given to the organism for perfect functioning.

It also has been proven, that a regular consumption of hard, calcium and carbon

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[4] M. Cintract - Reserches sur l'Acupuncture et la medecine electronique (Bulletin der Gesellschaft fuer Akupunktur 1964 Nr. 52) - L.C. Vincent - Bioelektronik und Akupunktur (Auszuege aus den Kongressdokumenten, Baden-Baden, 1971). L

containing water with calcium sulfate or natrium carbonate, is very dangerous if taken for a long time. In other words these are most of the bottled mineral waters, the bacteriological purity of which is not questioned thanks to the modern bottling methods.

Various scientists investigated this problem. Prof. L.C.Vincent, hydrology engineer and founder of bioelectronics, presented the most valuable contribution to the solution of this vital problem. In collaboration with various medical staffs, he could determine the physio-chemical origins of the pathological disturbances, which occur by using water detrimental for continuous consumption.

All city tap water sterilized through chlorine or ozone shows a disturbed pH value which can reach 7.5 to 8 and even more and with rH_2 values over 30! These slowly lead to alkalinization and oxidation of the blood (increase of pH- and rH_2 values). That is, to changes which lead to premature age and especially to degenerative illnesses and carcinomas (see bio-electronigram).

Mineral water, or so called therapeutical springwater, is often beneficial if one drinks it at the source. But these therapies have to be prescribed by an MD and have to be supervised, because this water acts intensively on the "terrain"; and it is important that this terrain does not change to a different direction other than the desired balance.

It has to be mentioned that the essential properties of a certain mineral water - like for instance "Vichy-Hopital" of low pH value and therefore of reduced effect - are extremely short lived and are lost completely through bottling. Even though the water remains bacteriologically pure in the process of bottling, it has too high a mineral salt content and can by no means be considered as pure. Most bottled mineral water which often has a preserved high pH value is detrimental for ongoing consumption.

The question arises why mineral water is consumed in such huge quantities and

without discrimination and that with the silent consent of the authorities who tolerate intensive and misleading advertising. The answer to this question is not easy, because this problem has different causes. For one, many people got used to drinking mineral water instead of tap water without medical prescription, although it not always qualifies as drinking water. This behaviour is evoked by overdone advertising which erroneously proclaims the high mineral content of mineral water as health promoting or praises the "extreme purity"; that is not true because of the high mineral content. Another reason might be the mistaken belief of the consumer that the more or less known beneficial effect of the mineral water consumed at the spring, can be extended by regularly drinking bottled mineral water which sometimes goes with a certain therapy.

And then the problem is related to the education of the MD's: The dangers of water with too high a mineral content are not clearly enough emphasized for hydrology students. This leads to another question: Why should the mineral water containing minerals which are essential for life, be damaging for our organism: This is a question of cytology: The elements of the mineral kingdom cannot be assimilated directly by the animal cell. In the plant kingdom the inorganic mineral substances which are taken from the water or soil are directly assimilated by the autotrophic algae and plants. They give them a new structure (the ability to rotate polarized light). In the animal kindgom though, the heterotrophic cells can assimilate, only organic salts with the ability to turn, which themselves are assimilated already by plants or animals nourishing themselves by such plants.

The drinking or cooking water which contains the inorganic salts that are not assimilated leads to an overloading on electrolytes of the blood. These electrolytes have to be eliminated by kidney filtration. The effect of the continuous calcium deposit of the electrolytes which cannot be assimilated sooner or later disturbs the normal excretion of the nephrone. It is inevitable that the blood is cleansed

incompletely and thus the door is open to degenerative diseases.

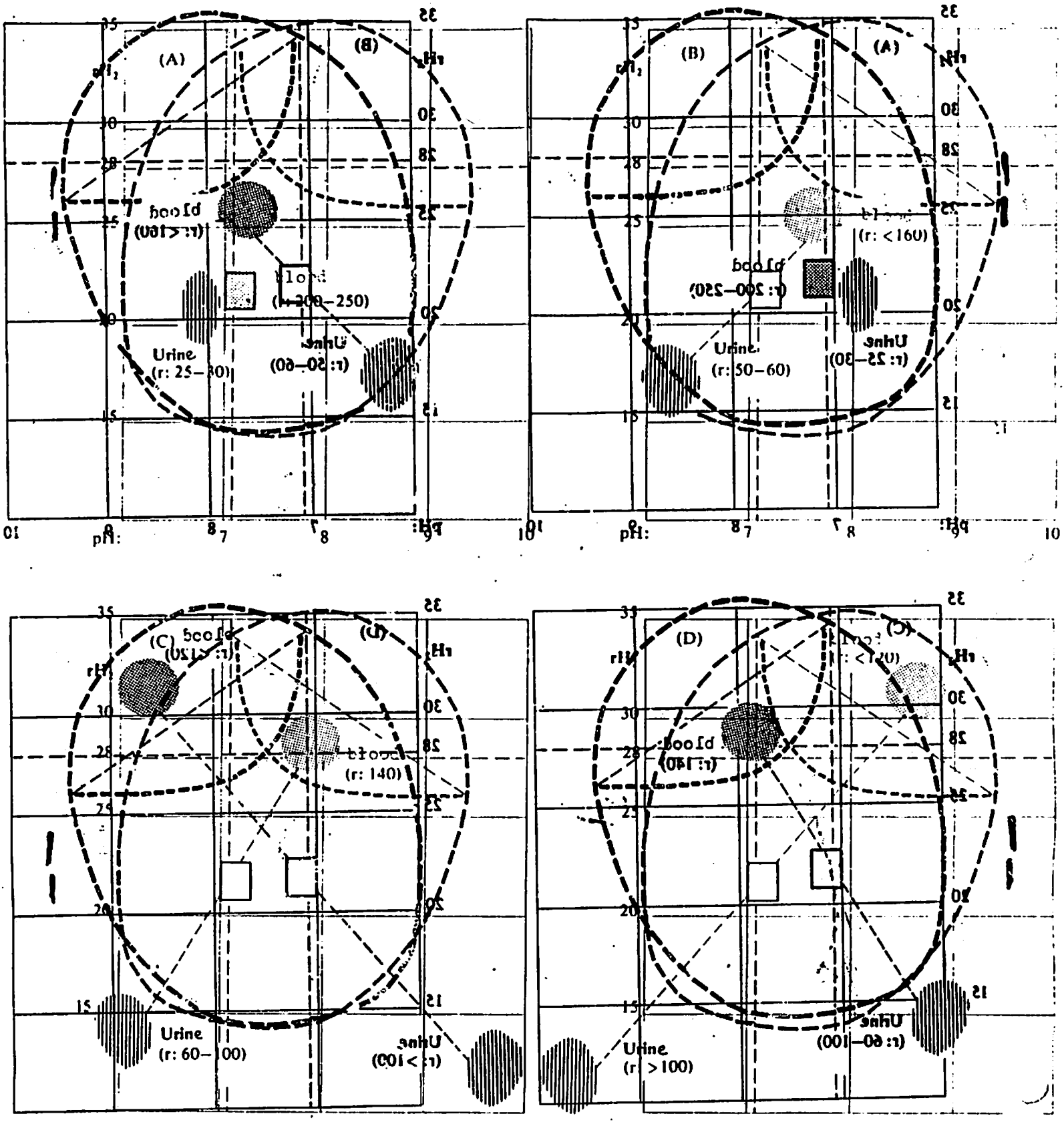
The incomplete filtration leads to sedimentations which accumulate and form salt deposits. These always are the origin of mineral deposits: calcification of the organism, all calcareous illnesses, premature old age like senility, kidney stones, gall stones, calcifications of brain, joints, and vertebrae, and beak-shaped nose. Don't forget the influence of these deposits on arthritis, arterio-sclerosis, deafness, cataract and their importance for the development of thrombosis and carcinomas. This is the reason why France, which uses in an exaggerated way both mineral water and vaccines, shows the highest mortality rate of all Europe (40% higher than the Netherlands).

After these explanations about bottled mineral water it is helpful to present some characteristic figures for the most well known brands. The figures represent their essential characteristics. The sequence is according to their quality.

Origin		Quality	Salt Content	T.H.T	Resistance at 20°
Katell-Roc	(granite)	very pure	90 mg (1)	3° (2)	9000 Ohm
Volvic	(vulcanic)	pure	110 mg	5° (2)	7000 Ohm
Koenigsteiner	(quartz)	pure	143 mg		6300 Ohm
Evian	(lime)	hard	500 mg	29.4 (2)	1900 Ohm
Perrier	(lime) (3)	hard	600 mg	34 (2)	1650 Ohm
Vittel Gs	(lime) (4)	very hard	1000 mg	77.2 (2)	1000 Ohm
Contrex	(lime) (4)	extremely hard	1700 mg	159.4 (2)	510 Ohm
Badoit	(lime) (5)	salt containing	1900 mg	109 (6)	450 Ohm
Vichy	(lime) (5)	containing much salt	5100 mg	450 (6)	210 Ohm

(1) milligram per liter
(2) hydrometric total titer
(3) containing calcium carbonate
(4) containing calcium sulfate
(5) containing sodium bicarbonate
(6) salt content

Diagram Nr. 2



A) Perfect Health

B) Precancerous

C) Cancer, reversible

D) Cancer, irreversible

V. Bio-electronics as a Precaution for Health

(An example for recognizing cancer and its stages of development.)

Biological physics offers the opportunity to make visible everything that is invisible in the tissues and to analyze the changes and clinical chain reactions which occur constantly in the human body. This micro-chemistry will probably bring us extraordinary results in the future. This physical chemistry is likely to gain more importance, because, acc. to Vles, the bio-physicist is the engineer of life (...). Most probably it will be the physicist who will tell us how the molecules are arranged in the case of illness, and how we can correct this arrangement. Without any doubt, it is the divergence from the physical balance within the living tissues which cause certain disturbances (...). Under certain influences a transformation into other substances, that is, a molecular change can take place (...). We can assume that physics will give us eventually the answer to the question: What is life? We are told that all existing forces are coordinated to the gravity or to the electromagnetic forces. This question, therefore, seems to be more of a problem of physics than of chemisty, which has to examined in connection with the molecular structure of the organism.

René Leriche
professor at the College de France,
member of the Institut Philosophie de
Chirurgie (surgery) (p. 83-84)

Comparative examinations of the bio-electronic measurements have been taken for a period of 20 years by the following: Prof. Vincent, the MD's Bosson, Mangez, Sevaux, De Tymowsky, Bader, Lecussan, Picard from Moulin and Martial in France... Dr. Cretallaz (director of the Biology Research Institute in Geneva) and from Germany by the physicians: Morell, Prinz and many others, and by many MD's from different other countries.

These blood, saliva, and urine examinations have been taken from healthy persons and patients with cancer. They lead to the following conclusions:

1. For young healthy persons (see diagram Nr. 2, graph A) the pH and rH_2 values of blood and urine lie very near each other. The urine eliminates blood waste materials, surplus of food acids and of mineral and organic electrolytes, so that the physical and chemical values of the blood stay stable (pH: 7-7.2, rH_2: 21-23, r: 190-220). The volume resistivity of the urine is very low (25 to 30 ohm), which shows that the various surplus electrolytes are eliminated by the kidneys almost completely.
2. In the case of a development towards cancer (graph B-C-D), slowly there will be a remarkable discrepancy between the blood and urine factors. "B", therefore, relates to a precancerous stage, "C" to the stage of a reversible carcinoma, and "D" to an irreversible carcinoma in the terminal stage. These changes show that the blood gets more alkaline and more oxidized, and that its volume resistivity constantly decreases through an overload on electrolytes if the urine acidity, the reduction ability, and the electrical volume resistivity of the urine continuously increase through insufficient elimination of electrolytes.
3. Such a process matches a kidney disfunction, that is, a decrease of the filtration capacity of the kidneys. They no longer can manage the normal elimination of blood waste material and blood electrocytes. Thus a surplus of electrolytes is generated, which leads to a decreased electrical volume resistivity, which again leads to an increased osmotic pressure in the tissue. At this point abnormal mitoses begin to take place which are in accordance with a polarity reversal between nucleus and cytoplasm.
4. The use of saliva in early diagnosis of cancer and the various stages of its development is very important.

Prof. Zambrini from Milan, Italy, first had the thought about using saliva (around 1930 up to around 1950). But he limited the measurement to its pH values.

He succeeded to a certain degree in differentiating a TB condition from a cancerous condition; the first mentioned condition was acid, and the latter alkaline. Thousands of measurements have been taken, a paper has been published, and letters have been exchanged with Prof. Vincent. But this method did not consider enough factors and contained numerous shortcomings and mistakes which can be easily explained through bio-electronics.

The technique of bio-electronics, which has been applied for the measurement of the three factors of the saliva, showed unerring and precise results for the various pathological conditions.

The saliva development in carcinomas is partly comparable with that of the urine and occurs to some extent in opposite directions. The saliva of a healthy person has

- a lower pH value (6.5 instead of 7.1) than the blood;
- the same rH_2 value (22) as the blood
- a lower resistance resistivity than the blood (r: 140 instead of 210, i.e. 1/3 less).

The saliva of a person with cancer has

- a pH value which increases on alkaline and lies near the value of the blood; in irreversible cases the value is 10 or even 15 units higher;
- an rH_2 value, which gets increasingly more oxidized with continuing poisoning of the terrain (up to 6 or 8 rH_2 units in extreme cases);
- an increasingly higher volume resistivity, which can be 7/10 higher than the saliva of a healthy person, and thus can have a value double as high as the value of blood in the case of irreversible cancer.

Finally it looks as if the saliva which is secreted continuously into the alimentary system by the salivary gland

- gets increasingly more alkaline and more oxidized. That counteracts the

favorable iono-electronical balance of the digestive system, which can operate reasonably well only within an acid and reducible milieu;

- contains less and less electrolytes; (an insufficient electrolyte elimination takes place, which is detrimental for the assimilation in the intestines and the whole metabolism). The volume resistivity of the saliva, therefore, can only increase, while the volume resistivity of the blood decreases.

The following can be concluded in the case of cancer:

- on one hand there is a kidney disfunction (anomally of the bio-electronic values of the urine, which change increasingly in the opposite direction of the values of a healthy person):
- on the other hand there also is a salivary gland disfunction with the following anomalies:
  a) The pH and rH_2 values of the saliva increase in the same direction as those of the blood, and in extreme cases even above those;
  b) the volume resistivity of the saliva (and of the urine) develops towards the opposite direction of the volume resistivity of the blood; that is the values continuously increase with cancer progression;

Very interesting aspects of cancer prevention result from above statements. Now it will be possible to apply a time saving and cheap method for serial examinations of saliva (2 cm^3) and urine samples (5 cm^3) through simple measurements by the help of the bio-electronimeter Vincent.[1] These measurements are harmless - unlike numerous takings of blood samples -, and they can be repeated daily at the

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[1] We want to point to the fact that only the bio-electronimeter Vincent reads "valid values". This device is the only one combining the various essential conditions, which are also planned by the founder. This is true for the construction and the precision of the apparatus as well as for the possibility of taking several measurements simultaneously of the same sample with the help of only one measuring cell, which has five electrodes, etc...

same time. Thus almost uninterrupted check-ups of the biological condition can be achieved.

It is essential, though, to measure also the blood values during the first visit of the patient, as well as the values of the saliva and urine. After that saliva and urine values are sufficient to check the development of the "terrain" and the effect of the administered therapy. During a lengthy illness the blood values will be measured every 8 to 14 days, according to the graveness of the illness or the occurrence of crises while the saliva and urine values are measured daily and are entered into a diagram.

If a person shows disturbed urine and saliva values during serial examinations the blood factors have to be immediately measured, of course, because only they offer the possibility to form a final judgement. This procedure is very secure if one uses Prof. Vincent's mathematical method of the "energetic quantification". There was a presentation of the basics of this method, which leads to pure "biometrics of the person" of the biological terrain, in November 1971 at the International Acupuncture Convention in Baden-Baden, Germany.

This method is a matchless working instrument for the practitioner, because of the great possibilities. It is not our aim at this point to explain this method in its details; but it will be published in the form of a chart manual (B). With the help of this manual it will be possible to rate the "terrain" mathematically with absolute certainty; the "terrain" which is defined by the 9 measured factors (3 of the blood, 3 of the saliva, and 3 of the urine). At last, this method shall offer a global and final interpretation of the terrain to the physicians, because it depends on figures, and thus is not subjective. It is based on calculations of the various electromagnetic elements (potential intensity, positive energy) constituting the bio-electronically anal zed human machine.

An equation of the energy interrelations of the substances $\frac{\text{blood-saliva}}{\text{urine}}$ shows

very clearly the enormous anomalies in the case of cancer. The result of this equation varies, namely:

- from 0.435 for perfect health
- up to 4.17 at the beginning of a reversible carcinoma (i.e. 9.6 times the value)
- and 19.3 at the beginning of an irreversible carcinoma (i.e. 44.3 times the value of perfect health).

In the history of cancer no technique has yet been able to give a scientific explanation for such obvious changes of the "positive" (anti-vital) energy. The surplus of positive energy is related to a slowly spreading, real "electrical pollution" of different origins, and is responsible and characteristic for triggering the anarchistic cell proliferation. It is, therefore, not surprising that the terrain of a living being can be as disturbed as that of a corpse, namely decayed and putrefied. Terminal cancer patients often are compared to walking corpses

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(1) These physical factors correspond exactly to what has been written by Janos KEMENY, Prof. of math. physics at the Polytechnicum at Budapest. His expert "contribution to a physical and mathematical explanation of the reaction ability of living organisms" has been written following to the experimental research of KOETSCHAU and LOEWE, in order to verify the Arndt-Schultz rule about the behaviour of living organisms under external influences, about the small excitations and accelerated actions, and about the greater excitations, which effect a function inhibition of the organism after an acceleration. To some extent, homeopathy can be explained through the above mentioned occurances. (Rev. Gen. des Sciences, Tome LX Nr. 7 and 8, 1953).

(2) The production of warmth/second through JOULE - effect: $q = r/^2 = EI$, originates (with the same potential E) from the increase of I, which gets bigger the smaller r is ($I = \frac{E}{r}$). This is the case in a fever; it gets higher, when the E is more important, and the r is smaller. Also in the case of poliomyelitis the nerve cells are burned through the JOULE-effect, E increase of +350 milli-volt in relation to the normal condition, with a decrease of r to

110-120 ohm cm/cm^2, instead of 200 ohm. The nerve cells are the only ones which are not renewed. The condition, therefore, remains final.

(3) Increase of ⊕ electricity in the case of polio, TB, and cancer. Therapeutically there is a possibility to connect the body which is charged with too much positive energy to the negative earth. Pastor KNEIPP had the intuition to let the TB patients walk with their bare feet through grass wet from dew. A similar result can be achieved with footbaths in cold saltwater, and grounded through the waterpipe. Headaches and neuralgia as well can dissappear with the help of iced water with vinegar and grounded, as mentioned above without the necessity of taking any analgetica (aspirin type).

BIO - ELE RONICS

Interpretation and Interrelations of the 3 Factors pH, rH_2, and r

by Louis Claude Vincent
Engineer E.T.T., Founder of Bio-Electronics, Professor at the Anthropology College, Paris (1955-1960)

From the View of	pH is a Factor	rH_2 is a Factor	r is a Factor
Physics Mechanics	of the Mass (or inertia) of the kinetic energy	of the potential (difference in potential) of the elasticity	of the temperature in reversal (heating up, friction) of the viscosity in reversal (physical resistivity) of the osmotic pressure (in reversal) ($r = f\frac{1}{\pi}$) of the Δ in reversal (lowering of the freezing point)
Electromagnetism	Magnetic Energy -of the etheric pressure -the α and γ-radiation	of Electricity (of the sensibility, the spirit) -cosmic occurrencies -the β-radiation	of the Dielectric (or isolation f(r)) or in reversal of the conductivity C($c=f(\frac{1}{r})$) of the electrolyte concentration
Electronics	-the protons (Hr) $m(Hr)=1.6734 \times 10^{-24}$ g $\frac{m(Hr)}{m(e-)} = 1873.5$ -of the ionization	of the electrons (e-) $m(e)=9.107 \times 10^{-28}$ g $\frac{M(e-)}{m(Hr)} = \frac{1}{1837.5}$ -of the electronization	of the electrical resistivity of the impedance, JOULE-Effect (2) In reversal of the number of Hittdorf over the electrical ion transportation capacity (relation of the electricity transported to Kathion and Anion $MCL,(Hr)=\frac{2}{3}$ and $(CL-)=\frac{1}{3}$ of the molecular charge -in reversal of the ion mobili.. which is proportional to the Hittdorf number (the Π of the ion motion of a solution= the equivalent conductivity or the reversed equivalent resistivity)

Change of the electron density (or β-radiation)

loss of (e-) increase of ⊕	Magnet, Energy ⊖ Protons	fungi, antibiotica, if pH < 6 increase of electricity (3)	Through the specific induction capability Through the ionization capability
o r decrease of ⊖	pH decreases (acid)	decrease of electricity rH_2 is increasing	Through the calculation index it becomes evident that
		O_2 increase } depolarization H_2 decrease } of the cathode	
		OXIDATION } hot (destruction) } oxidation	
			becomes weaker, with greater
increase of (e-)	Magnet, Energy ⊖	pathogenic algae, if pH > 7	
increase of ⊖ decrease of ⊕	loss of protons pH is increasing alkalization	increase of ⊖ electricity decrease of ⊕ electricity rH_2 is decreasing	ION MOBILITY (and vice versa) corresponds to the electrostatic capacity
		O_2 decrease } polarization H_2 increase } of the cathode	corresponds to the potential condenser effect
		Reduction } Hydrogen (construction) } compounds cold	

Commentaries:

"... Cancer develops in a terrain with increased pH and rH_2 values and low r (resistency) according to Prof. Vincent, and this is very interesting from the viewpoint of medical cybernetics... These values pH and rH_2 are the reacting coefficients of the kinetic energies, which are potentially reversible; r is the reaction coefficient of the irreversible heat energy.

It seems to be peculiar at first that the organism seems to have lost its only irreversible reaction in the case of an illness like cancer which is capable of changing the structure of the organism... A thorough examination of this phenomenon will be worthwhile. It could bring us new insight into the various causes of cancer and perhaps lead to the detection of a "common denomenator". ... The answer to this question will come from physics."

Prof. Janos KEMENY
April 1964, Budapest

Compared to the labor and the huge sums spent on research throughout the world, there are small positive results. The dissappointing conclusions at the International Cancer Convention in the United States (1970) prove that as yet, no preventive method could be found and that the mechanism which brings about the cause of cancer is still unknown. And it has been acknowledged that the death rate is continuously increasing. It is well known that all various types of cancer are only variations of the same phenomenon. The necessary conditions for the cancer development depends on the terrain regardless of what form and what organs are affected. Numerous carcinogenic or merely disturbing factors effect the change of the terrain. Yet the TERRAIN remains the main factor. The terrain has to be influenced in order to achieve an improper development.

Unfortunately, up to this time, a diagnosis could only be made at the point where the tumor was visible, i.e. 5, 10 or more years after the beginning of an

abnormal mitosis of the first cells, that is, as soon as the "electrical pollution" has unleashed the process of cell proliferation through a surplus of positive energy. The therapeutic and surgical means are insufficient as of now, in spite of some progress in this field, because the irreversible stage has been reached in many cases. This fact also explains the increasing death rates. The average age for cancer patients is decreasing: More and more younger people get cancer, and cancer provoking substances or factors are increasing, especially the electrical pollution. These clinical observations gave an idea of the basics of etiology and the development of this grave illness, from the first deviation of the electronic factors up to the mechanism of the anarchic cell proliferation.

It is our goal to find new ways, but to remain strictly within the field of cell biology. It is necessary for this purpose to recall some points of the classical cytology which relates immediately to the intra- and extra cellular electronic phenomena of the cell.

A) A cell can be graphically represented through three concentric circles: the nucleus with the fluid in the center, the cytoplasm, and the cytoplasm-membrane. The study of the cell shows that the nucleus is alkaline and the cytoplasm is acid. The nuclear membrane separates an acid milieu from an alkaline. It has a polarisation ability which is sufficient to bring about a minimal potential difference of 20 mv (several American authors talk about 30 even or 60 mv) and thus an ionization (acc. to Henry Doffin (3)). The living cell can be compared with a battery. The energy flows from the positive cytoplasm to the negative nucleus, i.e. from the outside towards the inside. Thus the direction of the flow gives the energetic stability to the healthy cell. We shall see that this balance can be disturbed by various antagonistic phenomena, where a reversal of the membrane polarity is brought about, that is, a reversal of the direction of the flow. This corresponds to a grave disturbance of the cell structure.

B) Another condition for maintaining the balance depends on the buffering ability of the cytoplasm. It maintains the constant pH value of the healthy cell in spite of all the internal or external influences. Thus the intracellular acidity-base-balance is guaranteed. But the differing pH and rH_2 values of the extra cellular milieu influence the physiological condition of the cell. If the causes of the pH and rH_2 value-variations continue for too long, the cell can be disturbed and the buffering ability is overtaxed.

C) The slow increase of the pH and rH_2 values of the blood is a continuous disturbing factor. It can influence certain cells and decrease the acid and reduced condition of the cytoplasm. This process continues with varied speed and depends on the metabolism, the conditions of health and fatigue (c1), and on the physical activity. It is also influenced by the climate, diet and clothing (c2), the mineralogy of the soil, the way the plants are grown (misuse of calium containing chemicals), the quality of the water, the pollution, the colorings and other food additives, certain medications which have an alkaline or oxidizing effect, etc,. and the continuous increasing "invisible and insidious electrical pollution"....

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c1) Fatigue is widespread. It ofter leads to pathological conditions and premature aging. Research in this area shows that fatigue

1. changes the blood composition and the ionization balance between blood and cells;
2. it means that cell fatigue, in the viewpoint of disturbances of ion balance and metabolism;
3. will result in illnesses (4 and 5) and organ weaknesses if the ion imbalance continues.

Further examinations were made over a period of one year at a point

where airplane engines are checked. They show that the observed phenomena of fatigue through sound and noise, vibrations, and ultrasound va[illegible] according to the physical condition, age, etc. The conditions were: extensive sense of fatigue, often for 48 hours or more, speed acceleration of the blood sedimentation, which is a characteristic for an evolutionary process, and which continues for a long time after the clinical disturbances have been observed, etc.

Professor P. Chanchard studied the various aspects of fatigue (mental, nervous and muscular). He pointed out that the effects of this fatigue manifested as cell fatigue and as a slow, but often also brutal intoxication which can bring about lesions very quickly. He emphasized that a constant inner milieu has a beneficial effect on the cerebral function, because the neurons react very sensitively to the changes of this milieu. They function correctly only when the physical and chemical blood factors are normal (6).

c2) Underwear made from synthetic and triboelectrical material has a damaging influence. They cause a charge with positive electricity, and they can lead to oxidation and development of precancerous conditions (7).

c3) Areas with a high magnesium content show a low cancer death rate. Areas with a low magnesium content show that the cancer death rate is high (8). "The problem of cancer seems to be a question mainly of diet and a product of hypercivilization. In short, it occurs through a potassium toxification due to a magnesium deficiency; both phenomena are tightly connected" (9). Other scientists, like Rosenstein and Kohler from Germany, Dubar, Voisinet and Lucie Radoin from France, also arrived at the conclusion that an imbalance of the mineral metabolism, due to a magnesium deficiency, can lead to cancer. The neutralization of the potassium surplus cannot take

place (10). And finally, Prof. Guerin was able to prove the strong carcinogenic effect of potassium containing fertilizers. (11)

D) The disturbance of the cell function, occurring through the disturbed energetic (electronic) balance as described under A, can worsen through mineral balance disturbances between potassium, Na, MG and Ca ions. These are mainly brought about through a surplus of potassium and Ca. The effect of these are essential for the membrane permeability. (Experiment by J. Loeb) (12). The antagonistic action of these ions secure the normal cell metabolism through their simultaneous presence and a certain proportion. It can be neutralized partially or totally if a certain number of cells are present in a weakened organ. The mineral balance changes the optimal proportion between the above mentioned ions. Thus the membrane becomes permeable to water and the salts and, therefore, is toxic and brings about disturbances. Further, an increasing concentration of electrolytes leads to a lowering of the electrical volume resistivity and sooner or later to a kidney disfunction.

E) We assume that it is correct that the three coinciding disturbances of the electrical balance, the mineral balance, and the lowering of the volume resistivity which corresponds to an increased osmotic pressure, effect a synergetic action. This leads to a disorganisation of the cell structure. Ch. Oberling already stated: "The problem of cancer seems to be tightly connected to the organization of the cell" (13).

F) We already know that, if the cytoplasm becomes negative and the cell nucleus positive, the direction of the current gets reversed, and that it flows from the inside towards the outside. The physical-chemical disturbance of the constitutive elements of the protoplasm leads to an energetically instable cell and to a change of the RNP (nucleoplasmatic proportion):

$$RNP = \frac{\text{volume of the nucleus}}{\text{volume of the cytoplasm}} = \frac{ADN}{ARN}$$

The chemical symbol RNP = ADN/ARN represents the constant proportions of cells of the same stage of development and under the same physiological conditions. It shows the significance of these constants which determine the properties of living matter and numerous vital processes, especially of the cell division and growth (14 and 15). They study of the cell development of a growing organism (youth) shows that the cell is quite voluminous compared to the cytoplasm (high RNP), later on it does not increase as much as the cytoplasm. Thus the RNP is slowly decreasing, and it reaches a minimal value for healthy cells. The cells keep this value until they die. In some pathological cases the RNP can reach very high values through the increase of the osmotic pressure. This is true especially for cancer and explains the swelling of the nucleus and the anarchic proliferation. During separation the abnormal cell transmits this anomaly to the daughter cells.

In 1925, Ch. Laville, France, related the increasing RNT in cell pathology to the discovery of his time, namely the discovery that the nucleus of the cancer cell is positively ionized and the cytoplasm is negatively ionized. Concerned groups took but little notice following the above statements. The American Bohatirchuk came to the same conclusions through his experiments with a radiation proof thorotrast (thorium dioxide). It was only after his publication in 1954 that the above mentioned facts were gradually considered acceptable for cancer control.(16)

Electronic biology already has explained many up-to-date unintelligible phenomena. Several generations of cytologists have failed to know the cause of anarchic cell proliferation and the long phases for the construction of the essentials of a mechanism. Electronic biology has the potential to disclose these problems.

Conclusion

Collins graph shows the cell proliferation as follows: after 3 years 10^3, after 5 years 10^6, after 8 years 10^9, that is a thousand million abnormal cells. This last number is adequate to a tumor as it is first recognized. An irreversible tumor has reached about one million attacked cells several years earlier. At the deadly stage the progression can reach 10^{12}, that is a thousand billiard cells. This meets a more than 2 lb tumor (1000 g) and is the highest weight which the organism can tolerate.

Bio-electronics is the only method up to this date which can give the necessary scientific data within minutes at the beginning of the evolutionary tendency or precancerous stage. For several illnesses, like simple diabetes, chronic nephritis, or nephritis with hypertension, the values change in the same direction, but it is simple to distinguish them from a precancerous development.

Menton, Dec. 1, 1973. L.R.

Natural Negativation against Electro Pollution, Origin of Civilized Ailments

Through the bio-electronic measurements, especially the energetic quantifications based on the blood, saliva, and urine values, the immense masses of surplus positive energy become apparent. That is so especially for tuberculosis, poliomyelitis, illnesses of the nerves, cancer, epilepsy, sleeplessness, etc.

The knowledge of this detrimental surplus allows a remedy and a rational therapy with an immediate effect, namely the NATURAL NEGATIVATION where the organism is grounded.

During the research and experiences of the Vincent group, ongoing since 1960, and innumerable physicians, a maximal effect and certainty of grounding has been achieved under the following conditions:

a) by a choked discharge, plus

b) a discontinuing discharge (for not more than one hour, every 12 hours), plus

c) a discharge, protected against an incidental backflow of positive stray currents or ground current (thunder storms).

The NEGATIVEUR Naturel Vincent[1] has been created for the benefit of the public. It fulfills all the necessary requirements to secure a complete and effective grounding without any risks. Over the past 10 years hundreds of people verified the beneficial effect of using the NEGATIVEUR, especially for restoring the equilibrium, sleep, general health, etc., through the simple "discharging of the surplus of positive electricity". This surplus is the result of electro-pollution, caused by the detrimental effects of modern civilization. The people of modernized countries are condemned to suffer civilized ailments and are exposed to the malicious, cumulative and practically inevitable attacks of an insane over-electrification that increasingly includes the smallest areas of daily life.

It is important to know that negativation is available to everyone living in the country without any risk (except in thunder storms) by walking barefoot in dewy grass at dawn or dusk or just before going to sleep, for 15 minutes.

City dwellers who have no grassy area available achieve a similar discharge by the use of the "Negativeur Naturel Vincent", especially designed for them (controlled and protected grounding).

Through such a treatment - correctly done over a whole summer - various organs or functions can be improved greatly (bronchi, digestion, metabolism or nervous system), simply through lowering the blood rH_2, and at the same time the various ailments of civilization can be fought.

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1 product of SOPEL-BP 12-63200 RIOM, France

The logical consequence of an effective discharge of the surplus positive electricity of an organism is recovery.

Thus a physician competent in bio-electronics, has to be consulted. He alone can administer a rational therapy based on the measured 9 bioelectronic factors, a therapy which leads with certainiy to a permanent recovery.

Already in 1945 Dr. Allendy stated: "Apparently the metabolism, especially the anabolism and decomposition of the life mechanism, depend not only on atomic but also on electronic changes at the end of long valence chains interlocked with the organic molecule. An infinitely small change of the ions, atoms, and electrons effects the linking of a new atom (absorption) or the detachment of the chain (elimination). The molecule itself remains within a relative balance or conservation through ongoing changes of this kind."

The Vincent negativation has served the physicians in spectacular and innumerable ways without the slightest risks and secondary effects contrary to the synthetic remedies which sooner of later lead to the irreversible and disasterous final catastrophe of the detrimental ailments of civilization.

Prof. L. Cl. Vincent

Vitality Factor, Energetic Quantification, Global Factor

Roujon is mentioning the energetic quantification, but he does not give any detailed information about it. The questions about the various evaluations and mathematical results make it necessary to describe the Vincent research after this publication.

Two different and independent evaluation methods have to be mentioned here:

1. the vitality factor
2. the global factor, the final value of the energetic quantification.

The vitality factor is produced by results varying from the normal values.

A specific key is used to produce an evaluation number for each of the 3 pH values (blood, saliva, urine), the 3 rH^2 values, and the 3 r values. These figures appear in a diagram called ABA-QUE C (see diagram). The curve C results from the abscissa and coordinate for pH_p and rH^2_p (the $_p$ means "pondere", french = evaluated), and corresponds to the numbered curves, arranged according to logarithmic measures.

At the lower left of the diagram you'll see "perfect health", at C = 1 beginning cancer zone, and further towards the upper right irreversible cancer zone, agony and death. A three dimensional figure results from incorporating r_p. r_p for perfect health is 10.5, for beginning cancer 5.5 and gets lower and lower for irreversible cancer. We can imagine a lowering figure towards the upper right in the shape of an amphitheater.

The vitality factor (Vi) is: $Vi = C \times r_p$.

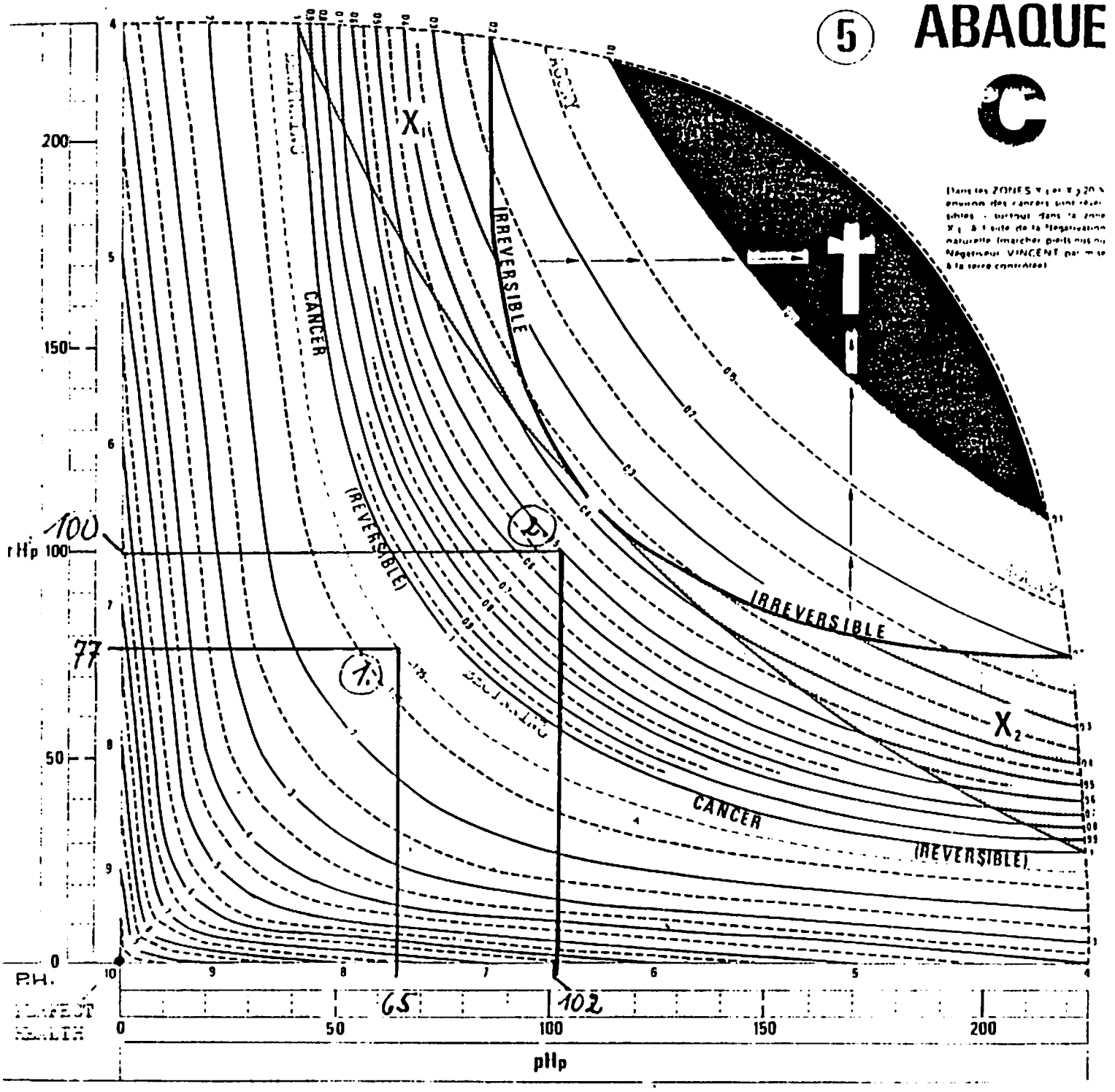
What does Vi mean? It is a measure for the defense system of the organism, especially related to cancer. This vitality factor is a reliable assessment assuming that there are cancer cells in the body at all times and that they grow or not grow according to the ability of the defense system.

Vi = 5.5 and less always indicates a low defense ability.

Here are some formulas of the energetic quantification and its final result, and the global factor.

1. $30 \times (rH^2 - 2pH) = E$ in mV.D.i. the so-called redox potential in millivolt.
2. V : r = i in mAmp. Thus the potential: the resistivity = intensity of current.
3. V x i = W in μWatt. Thus the intensity of current potential = energy in μWatt.

This last value of μW is important. It is possible to get the energetic


5
ABAQUE
C
X1
X2
CANCER
IRREVERSIBLE
(REVERSIBLE)
100
77
65
102
rHp
pHp
P.H.
0
50
100
150
200

value in μW of a liquid through its pH, rH^2 and 3 with one single formula:

$$4. \quad \frac{(30 \times (rH^2 - 2pH))^2}{r} = \mu W$$

The following table shows the normal values of a perfectly healthy person of 20 years and the comparative values in the case of cancer.

	pH	rH^2	r	mV	mA	μW
blood	7.1	22.–	210	236	1.12	262
blood, cancer	7.6	28.–	140	384	2.74	1053
saliva	6.5	22.–	140	270	1.93	520
saliva, cancer	7.2	29.–	230	440	1.93	849
urine	6.8	24.–	30	312	10.40	3244
urine, cancer	5.1	19.–	90	264	2.93	774

Let's have a look at the last column. We see that a healthy organism puts out high energies through the urine; only small quantities stay with the blood and the saliva.

In the case of cancer only small energy quantities are released, but high energy quantities remain in the organism. According to our knowledge this fact is a new one and has not been recognized nor described.

Further research of the energetic quantification by Prof. Vincent leads to the realization that the overall condition of the patient can be expressed by one number, the global factor. It is the result of 2 components: the vitality factor (Vi) and the so called active potential (PA). Thus the global factor is :

$$PA \times Vi = FG$$

This FG considers the condition of the defense system and the energetic condition, because the PA is calculated by a complicated formula through the above mentioned μW values and several constants.

The following diagram shows the FG logarithmically as a coordinate and the age as a linear measurement. It is surprising that the diagram shows the values for perfect health in a straight line slanting towards the right, lower corner. For FG = 0 the line shows the age of 100 years. But it has become evident that the value FG = 0.5 cannot be practically lowered. This means that the prognosis is "infaust" independant of age, if the FG results remain below this line.

Follow the established FG value towards the right up to the intersection of the health line. Vertically below that point you"ll find the "bioelectronic age". This is the value which the patient should have by that age. It is possible, though, that the FG value is much better than it should be, especially in the case of very healthy old people.

You also can put the established FG value in relation to the value which the patient should have for his age. This will be expressed in percentage. Logarithmically measured slanted parallels express these percentages.

Thus the established FG value expresses the overall condition of the patient, his energy reserves, the condition of the defense system of his organism, the prognosis, and the bioelectronic age.

More than 5000 established Vi and FG values have proven the reliability and excellent use for these two values. But any one of these values cannot be considered apart from the others. Each value and deviation from the normal value is important and has to be viewed in its totality.

May 1977

Dr. Franz Morell