

## Four-pole regulation of all functional systems in the body

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### abstract

What do we mean by the term health? How is cellular metabolism regulated? How does the environment adapt to changing conditions? And how does all this interact with each other?

For this, it is necessary to take a closer look at the ratios in the body.

The dynamics of acid-base balance can be understood only in its dependence on cellular metabolism. The task of acid-base regulation is solely in the ability to accept protons (alkalis) or give them (acids), in order to thus realize various enzymatic reactions. These positively charged hydrogen ions are very stable, which also manifests itself in their property as a nuclear particle. They can be thought of as a ball to play in the pH regulation system. There is one natural adversary: negatively charged electrons, which neutralize them. And they again play a major role in cellular metabolism (redox potential / redox potential).

The interaction of charged particles can be correctly described and understood only through their potential fields.

Acid-base balance and cellular metabolism together ensure the interaction of 4 polar forces, which allows for fast and reliable accommodation at any time to changing environmental conditions and to any type of irritation. Thus, in this case, the scientific foundations coincide with the universal law of tetraxis (four-unity) (according to Wolfgang Pauli) and smoothly, "without a single seam," fit into the system of ordering LIFE-CONFORMAL MEDICINE (LKM = LCM) - into Luscher's cube.

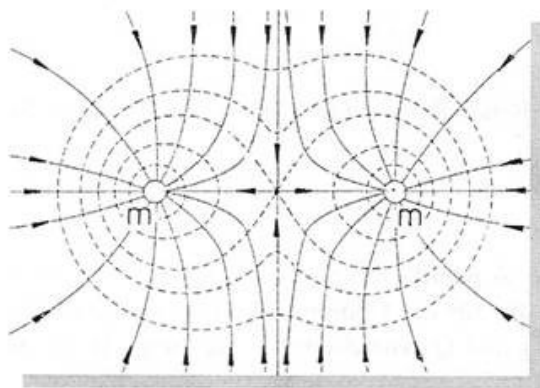
Due to acidification, energy reserves can be activated, which is vital in stressful situations. From this it is necessary to separate the "real" peroxidation that occurs in the connective tissue (matrix) as a result of the deposition of organic fatty acids, as a result of malnutrition, toxic burdens of the liver, prolonged stress and chronic movement deficit.

The revitalization of cells and the environment with the help of information therapy creates the necessary conditions for healing, while restoring the 4-pole regulatory capacity.

### Potential fields

These are the fields that determine the observed impacts. Mass particles never touch, because they exist in extremely small numbers (1 mass particle: 1 billion quanta). Their fields (potential fields) always interact.

These fields are usually highly ordered and thus provide unimpeded exchange and transport of charge carriers. Any shift affects both metabolism and pH value. At the same time, vital information is also transmitted, since electrons are photon storage devices. They, in turn, are carriers of vital information that we receive from the sun and perceive either directly from the sun's rays, or indirectly with food (or must receive and perceive).



Rice. 1. The potential fields of charged particles, here from 2 protons

### Body ratios

The regulation of acid-base balance is mainly carried out by two polar mechanisms. On the one hand, we distinguish between a bicarbonate-carbon dioxide bus, on the other hand, an ammonium-ammonia bus, which is mainly realized through the kidneys. The importance of another important partner has only recently become known. A healthy, well-functioning intestinal flora is, in fact, a prerequisite for smooth interaction.

The laws of 4-pole regulation of the cell-environment system  
 4 acid / alkali regulators  
 $\text{NH}_3 \text{ CO}_2$   
 $\text{HCO}_3^- \text{ NH}_4^+$   
 All 4 poles are in constant communication

Rice. 2. Four-pole acid-base balance (Dr. B. Köhler)

The pH value is influenced, firstly, by respiration, and secondly, by metabolic processes. Anything that attracts acid in the stomach simultaneously leads to the release of bicarbonate into the blood. In this case, a simple connection works: the more acidic the stomach, the more alkaline the blood. By the way, this mechanism is triggered by the intake of table salt, therefore, a strict ban on salt consumption reduces blood alkalization. Vomiting due to loss of chloride leads immediately to alkalosis. The liver plays a major role in acid-base regulation through an additional supply of bicarbonate (40 times that of the stomach).

If bicarbonate performs its alkalization task and accepts a proton, then carbon dioxide ( $\text{H}_2\text{CO}_3$ ), which quickly decomposes into  $\text{CO}_2$  and water.  $\text{CO}_2$  exhaled through the lungs. Thus, we have a simple and reliable way to reduce acidity. In this case, the lung behaves in the opposite way. Metabolic pH shifts are compensated for through the lungs, respiratory - through the kidneys.

There is a transition formed from glutamine (through glutaminase) in the kidney  $\text{NH}_3$  into sour tubular fluid, where ammonium ( $\text{NH}_4^+$ ), which is deduced as a result of the reaction. Thanks to this release of protons, the blood is also alkalized.

### Basic chemical principles

There is no need to repeat what can be found in all textbooks. Here it is important to focus on biophysics and, therefore, on the much-needed energetic relationship of acids and alkalis. Alkalis are formed from acids and vice versa exclusively (!) Due to the fact that they give and receive protons, i.e. positively charged hydrogen ions. This is reflected in the following formula:

$$\frac{[\text{Base}] \times [\text{H}^+]}{\dots\dots\dots} = K_a \text{ (acidity constant)}$$

[acid]

The basic principle of the regulation of acid-base balance actually consists only in regulating the pH value by means of the displacement of protons and nothing more! Thus, we are talking about an important thing, namely, about charge carriers. However, the necessary general clarifications cannot be omitted.

The acid-alkali ratio is very precisely regulated in the body, and in different tissues in completely different ways. In some organs, we find an extremely acidic environment (for example, the stomach), in others, a very alkaline environment. The generalization like "all people are oxydated, and they need to be treated with alkaline methods" does not reflect the essence of the matter.

#### Actual background causes of peroxidation

If we talk about actual peroxidation, then it should be understood as a problem of civilization. We are talking about "excreted" organic fatty acids that could not be broken down due to liver overload (for example, due to harmful substances in the environment, increased influx of ammonia due to dysbiosis). These are the so-called "slags", which can provoke rheumatoid inflammation and contribute to the development of degenerative processes.

Thanks to the research of the physicist-chemist Dr. Joanna Budwig, we have come to understand highly negative charged lipoproteins, which, due to their presence on electrons, have a direct strong acid-lowering effect and, at the same time, are excellent radical scavengers.

I repeat, we are not talking about any "sculptor-sculptors" of acids or "buffers" of acids, as it is customary to say in general colloquial practice, but absolutely specifically about the fundamental mechanism, namely, positively charged protons (as acid carriers) and their catchers and / or acceptors. After all, only the electric charge (and the corresponding field) is the decisive aspect. From this point of view, we can directly deal with acid-base balance and create the necessary connection with the regulation of metabolism.

#### Regulation of cell metabolism

Of course, this system too - like all functional systems - is regulated according to the four-pole principle. Scientific regularities were developed and tested in numerous experiments by Prof. Dr. J. Cholet (University of Hannover).

The laws of 4-pole regulation of the cell-environment system

4 regulators of cellular metabolism  
CORTISOL    TYROXIN  
STG    anabolic peptides  
All 4 poles are in constant  
communication

Rice. 3. Regulation of cellular metabolism presupposes the presence of a minimum 3 regulators (cortisol, thyroxine, STH) in the cytosol and cell nucleus (Dr. B. Kehler)

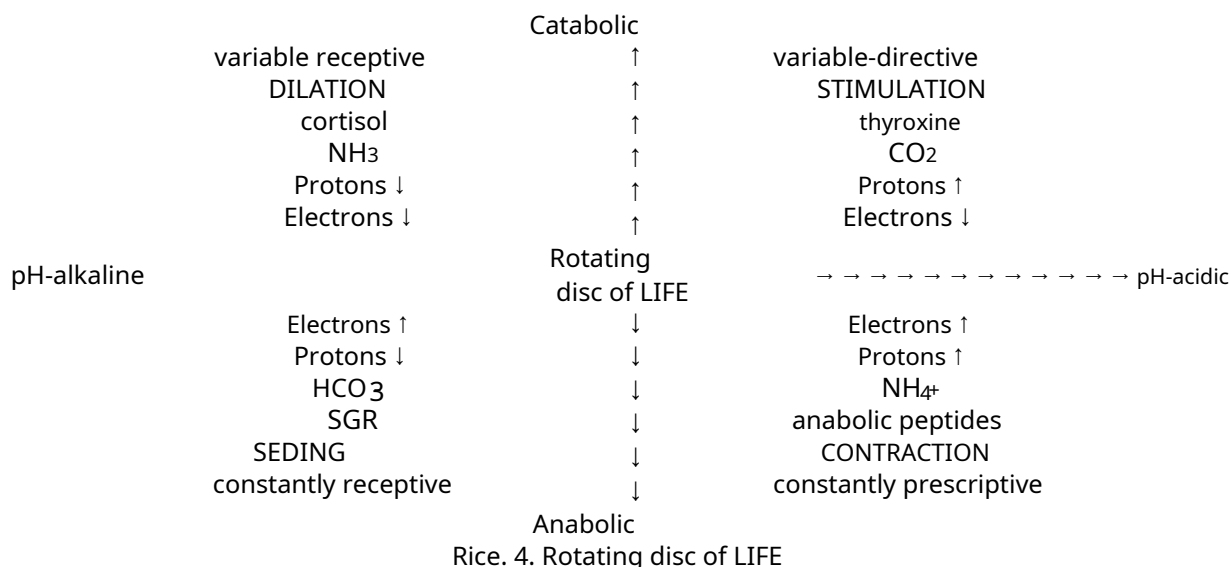
Since in the case of the regulation of metabolism we are talking about electron-donor-acceptor reactions, here 2 charge carriers "meet", which actually form an inseparable pair and therefore must also be considered together - negatively charged electrons and positively charged hydrogen ions, protons.

Cellular metabolism and acid-base balance are one whole, because only together give the desired effect.

It is only in the interconnection of these two regulatory systems that the representation is holistic and opens up completely new aspects. Particular attention should be paid to electrodynamics, since it affects the proton fields. But they determine the structure of the fabric.

The important facts for this new way of learning were brought together by the agricultural scientist Prof. Dr. Manfred Hoffmann, who has carried out numerous measurements of potentials in food.

Thus, a completely new understanding of their effect on the body was formed. It is not the chemical composition that is decisive, but their concentration on the electrons. After all, it is they who can neutralize protons in the most direct way. In fig. 4 uses the results of his research.



The rotating disc of LIFE is a union of two systems that cannot be considered independently of each other: cellular metabolism and acid-base balance, and here psychoregulation is necessarily integrated, which, as always, is superior. This idea unites the results of research by M. Hoffmann, B. Köhler, M. Luscher and J. Cholet.

#### Bipolarity

With this new 4-pole view, we can imagine in fig. 4 people, located in the center at the point of intersection, at which they are simultaneously influenced by all 4 components. There all influences are equal. However, the system is by no means stable, it is in a labile (non-) equilibrium. With any change in the environment, a rapid adjustment must take place, for which it is necessary to leave the center. One of 4 directions is chosen to return to the starting point at the end of the irritation. During this "excursion" experience is gained, which is preserved. This dynamic system is a rotating disk on which all life processes are played out, information about which can be collected both diagnostically and therapeutically.

However, this happens in interaction with the outside world, because impulses come from there. They pass through consciousness, are performed not only at the cellular level and cause various emotions. As long as the cycle is closed, nothing harmful, unprofitable happens. But if 4 fields in the course of time penetrate not alternately, but unilaterally - with prevalence or "neglect", then problems arise that cause diseases.

#### Long-term consequences

The actual role of free radicals is only now becoming clear. They are characterized by a deficiency of electrons, so they greedily capture other people's electrons. Thus, they destroy vital molecules and structures (for example, cell membranes), which, after such "electronic robbery", call into question the possibility of the participation of electrons even in other compounds. This leads to a destructive chain reaction.

Thus, the appearance of free radicals always signals the presence of an electron deficit and therefore must be eliminated causally, i.e. by supplying free

electrons.

The regulation of cellular metabolism is guided exclusively by the redox potential. If the value is low, i.e. there are a large number of electrons in free form, then anabolism prevails (contracting environment), and to compensate, it starts catabolic energy metabolism. In this case, only electrons serve as an arrow on the balance. Along with the appearance of antioxidants, the number of free electrons increases, which favors anabolic metabolism. But at the same time, as a counterregulation, catabolism is immediately forced, thereby creating an increased level of energy metabolism! Therefore, to determine the correct dosage, bioenergy test methods should be used whenever possible.

This sounds very difficult. And this is what it is, because these processes are constantly being adjusted so that we have the ability to quickly adapt. And this is the only criterion to correctly reflect the state of health in the sense of regulatory medicine. The faster and more optimally we can adapt to changing environmental conditions, the more loads / burdens we can withstand.

From the results of this scientific experience, we can conclude that the acid-base balance cannot be correctly described without cellular metabolism, and vice versa. The decisive regulatory component for both is exclusively electrical charge carriers - protons and electrons.

#### Practical use

The healing process requires the fulfillment of certain conditions that must first be created. First of all, we are talking about how to mutually adjust the energy decompensation and at the same time compensate for hormonal deficiency. Only in this way, with On the one hand, the standard regulation of cellular metabolism can again proceed along with the normalization of the acid-base balance. On the other hand, only under these conditions can the body's control signals be sufficiently transformed. If both components work, then life processes can again flow unhindered. Otherwise, any attempt at treatment will be in vain or short-lived in effectiveness. Cell revitalization and ZMR medium work exactly in this direction.

We must rebuild our thinking in relation to nutrition. There is not a single alkaline food product, not even among the "alkaline broths" of the Mayr doctors. They all have an acidic pH value. Many have probably already noticed that the tables available with the estimated alkaline nutrient content are partially contradictory, which is correct! Initially, there is no dependence at all in this. Once food enters the stomach, it is acidified to a pH value of 1.1. This sets the original value. Without such strong acidification (or also due to the administration of acid-reducing agents), complete breakdown of food is impossible. This leads to an overburdening of the nearby intestines (Dr. Diefenbach, Dr. Peters). At the same time, the release of bicarbonate into the blood is extremely reduced.

The purpose of this therapeutic application is to create the necessary conditions for a cure. And they should always closely adhere to natural life processes, support them, but not suppress them. This is the main task of LIFE-CONFORMAL MEDICINE, used in the form presented here.

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