

Cure for Cancer: the Great Mystery of Ozone, pH, Oxygen and Soda

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"Use no vessels but of glass and glazed clay, to avert the action of acids.

Be rich enough to pay expenses required for your experiments.

Avoid any close relations with princes and the nobles..."

- Albertus Magnus, XIII century

"Once the true cause was found the cure became obvious. But would it work? I set a goal of 100 cases to be cured of cancer before publishing my findings. That mark was passed in December, 1992. ...

The human species can no longer afford to make a business out of illness.

... The concept of health as a narrow professional concern is obsolete. ...

This book is intended as a gift to humanity. I make a plea to the public and private sector of the medical community not to suppress this information but to disperse ..."

- Hulda Clark, "The Cure for All Cancers", 1993

"I'm mad as hell and I'm not going to take it any more"

- Charlotte Church, May 2015

Preface

This publication originated from my contemplations on a few places in Hulda Clark's book, "The Cure for All Cancers". Surprisingly for me, among details on her herbal formula, she also included ozonated oil. Moreover, that ozonated olive oil was given a paramount importance. Besides her zapper, it was obviously considered as the final argument, the absolute weapon in battle against cancer and the most powerful approach, capable of eradicating even the

sturdiest bugs. What was even more intriguing, not much was said why and how it works and who invented that, while the information on the other components was amply provided.

Thus, my post is inspired by the brilliant example set by Hulda Clark, whose work was intended as a gift to humanity. Following another brilliant example set by Charlotte Church, I do **not** make a plea to the scientific and professional community to disperse this information. 22 years elapsed after publication of "The Cure for All Cancers", and hardly anyone knows about this great book. The community have proven they do not care. Yet another, shameful, example is apparently set.

In the following chapters I shall try to explain, in simple words, step by step, how and why all that and some other stuff works and how to properly employ it for healing, so the folks who really need that (say, about to die from terminal cancer) could use it, - **at their own risk**, of course. **If you do not agree to that, please stop reading now and do not read further.** There is no guarantee, but there might be a chance. They have nothing to lose, anyway. The techniques are amazingly simple, safe and affordable. In the meantime, the book can be downloaded from here:

<http://3annep.prostosite.org/filemanager/download/172/>

By the way, the book about zapper is not far, either:

<http://3annep.prostosite.org/filemanager/download/165/>

I took it from here: <http://electroherbalism.com/Bioelectronics/HuldaClark/index.htm>

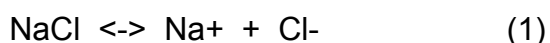
Chapter 1

Why soda?

First, some basics. There is a theory (at least 3000-year old) saying that the things around us are composed of certain elements. The most fashionable branch of it, which is still in widespread use now, suggests that the substances of our world are built from molecules and atoms.

For example, the human beings are built mostly of water, which is composed of two atoms of hydrogen and one atom of oxygen, and serves as the milieu for a great many processes supporting our life. Usually, when a substance enters our body, it dissolves in aqueous environment and/or reacts with it. Often, this is accompanied by the process of electrolytic dissociation discovered by Svante Arrhenius in 1880s. It may happen not only with solid substances (like salt) but even with some gases, for instance CO₂ that is being formed inside us.

For those of you who have not fallen asleep yet listening to all that scientific lingo, I prepared a generous reward. Knowing Arrhenius theory may save you a lot of money. Say, you need to clean your kettle and get rid of the sediments. You may go to the store and buy some expensive cleaner. Or, armed with the ultimate power of science, you may buy only vinegar and salt that will also work, perhaps even better. Look:

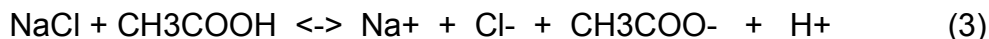


This is how salt dissociates in water solution. It produces two ions (atoms which lack

electron(s) or have some extra ones), a positively charged sodium ion Na^+ and a negatively charged chloride ion Cl^- . Some of them would re-associate back, forming NaCl again, dissociate again etc., and that is why there are arrows on the both ends.



This is how acid in your vinegar dissociates. H^+ are hydrogen atoms that gave the only electron they had to the atom of oxygen. Since the electron is negatively charged and it is lost to oxygen, the oxygen atom (and the whole moiety CH_3COO^-) acquires negative charge and the former hydrogen atom is becoming positively charged. The latter is also called a proton, because that elemental particle is what it turns into without its electron. In summary, if you mix salt and vinegar, you will get that:

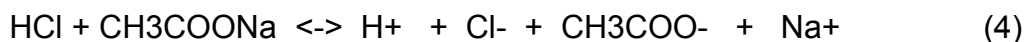


The point here is that if you mixed far more expensive muriatic acid (which cleans the sediment very well) and sodium acetate, you would produce exactly the same mixture of ions:

$\text{HCl} \leftrightarrow \text{H}^+ + \text{Cl}^-$ This is how muriatic acid dissociates

$\text{CH}_3\text{COONa} \leftrightarrow \text{CH}_3\text{COO}^- + \text{Na}^+$ This is how sodium acetate dissociates

In summary:

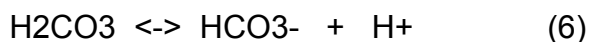


Now, we can save money and keep our kettles (not only kettles, by the way) sparkling clean. Do not forget to wash them thoroughly after cleaning. Let us go back to the CO_2 story.

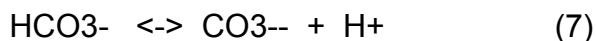
CO_2 that is constantly being produced inside our bodies, turns into carbonic acid, mostly in our blood (precisely, in erythrocytes):



which dissociates, much like vinegar in the above example:

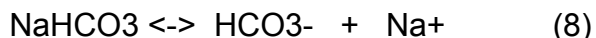


To a much lesser degree, it dissociates even further:

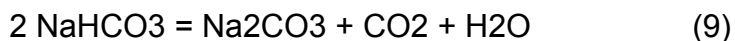


So, the prevalent ionic species from CO_2 production are HCO_3^- and H^+ .

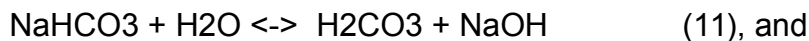
Believe it or not, but the first moiety can be easily produced just by dissolving baking soda (sodium bicarbonate, NaHCO_3 , a few dollars per pound in any store) in water:



Using baking soda has yet another advantage, which we discuss later. When heated (say, dissolved in boiling water), it enters the following reaction:



Then, in hot aqueous solution:



Since CO_2 is flying away, particularly at high temperature, this results in a weak solution

composed mostly of sodium (bi)carbonate and lye (sodium hydroxide, or NaOH), which later, after cooling down, would eagerly consume any available CO₂, turning back into soda:



Besides, the pH of such a solution is higher and may exceed 10 vs. pH exceeding 8 for plain soda solution. Therefore, the **same amount of baking soda dissolved in boiling water is far more efficient in terms of CO₂ removal and raising the pH of the body.**

So, now we have a perfect excuse to investigate what the pH is. We shall definitely do that - after studying the following practical example:

Vernon Johnston Cures Prostate/Bone Cancer with Baking Soda & Molasses

<http://educate-yourself.org/cn/bakingsodamolassescancercure2008.shtml>

Five year Update on the Vernon Johnston Who Cured Stage IV Prostate Cancer with Baking Soda

<http://educate-yourself.org/cn/vernonjohnstonupdate16oct13.shtml>

Bicarbonate of Soda Used to Cure Stage Four Prostate Cancer

http://www.naturalnews.com/027481_prostate_cancer_baking_soda.html#

What did Mr. Johnston do? According to one version, he was taking a glass of water with a teaspoon of baking soda (\$1 to \$2 for a pound) and a teaspoon of blackstrap molasses (about \$2 for a pound) dissolved in it, once a day, for the first 4 days. On the fifth day, he took that solution twice. On days 6 to 10, twice a day, he was taking a glass of water with two teaspoons of soda and two teaspoons of molasses dissolved, instead of one tsp. of each. On day 11 it was found that his cancer disappeared.

Other versions suggest that the soda solution was heated, which, as we already know, would make a perfect sense (please see equations 9 to 13 above). Yet other one suggests such courses to be made in series, with weekly intervals in between, until the tumour(s) disappear(s). Yet another protocol I have met and my own testing experience show that the solution should be taken on an empty stomach: for example, early in the morning, at least 1 hr before breakfast. When taking twice per day, the second time should be at least 2 hrs after your dinner or supper, before going to bed. Otherwise, it may interfere with your digestion. Of course, use **only** ceramic, porcelain or heat-resistant glassware; do **not** use a plastic or metal cup. When soda is dissolved in boiling water, the potion, with or without the molasses, is more palatable, at least to my taste. The molasses, according to the above sources, may be substituted with maple syrup or honey.

The last substitution, together with the role for the sweet substances defined as the "carrier" in the sources, shows a very old origin of the method. Honey, famous for its extraordinary penetrating ability, was used as a carrier for medicine(s) in ancient Rome, if not earlier. It is also possible that the whole approach soda + molasses (or maple syrup or honey) was developed in 1940s by an American physician. If true, that would immerse us in a series of brilliant works on electrolytic composition of human body accomplished in the first half of the last century. Later, some of them were employed for medical purposes and demonstrated complete healing of wounds, injuries etc. with astonishing speed, literally overnight, with no scars or other traces left.

Chapter 2

Why pH?

For those reading my article rather of necessity than of curiosity, I shall first say that pH values of our body are extremely important both for initiation and prevention of cancer. Based on his experiments on thousands and thousands of mice in 1920's, F.Vies, a French scientist, formulated a theory, according to which the chance for getting cancer depends on the difference between the pH of the body and the isoelectric point pHi of the cell colloids. The lesser was the difference, the higher was the chance and the fiercer was the character of the disease. Usually, since the body pH value exceeds that of pHi, the fastest way of increasing that vital difference is to quickly elevate and maintain the former. There are two obvious ways for that, and the best option is to combine both of them:

(1) Drinking soda (+ molasses, honey etc.) solution, as described in Chapter 1 above;

(2) Immediate, decisive, complete and permanent switching to a diet consisting only of whole plant products. The diet excludes not only absolutely everything made of animals (meat, milk, cheese, eggs) but also fish and even products like white bread, sugar, chocolate, vegetable oils and all processed vegetarian foods. An excellent historical example is the diet of ancient Roman legionnaires. They ate wheat kernels (wheat grains or berries) boiled in water until soft, about two pounds per day (perhaps more, according to some historians). Even much later, in Byzantine Empire, their usual daily diet included at least a Byzantine pound of whole wheat bread (about 300 g or two thirds of a modern pound). A recent study, by the way, once again confirmed numerous observations, made over a period of at least 150 years, that animal food promotes cancer while plant food suppresses its development. For more details, get the book (T.C.Campbell and T.M.Campbell, "The China Study") or read it, say, here:

<http://www.socakajak-klub.si/mma/The%20China%20Study.pdf/20111116065942/>

A plant-based diet, even alone, can be very powerful for fighting cancer - in particular, because many edible plant species possess specific anti-cancer action. In 1967, it was shown (Nakahara et al.) that at least one compound found in wheat can **slow down cancer growth**, by 96%. In 1956 (Taylor et al.), anticancer activity was found in other common plants used for food, for example, pumpkin, cucumber and rhubarb. The same characteristic was found in seaweed *Laminaria* (kelp), by Vorontsov in 1957. Moreover, it was also demonstrated in 1955 (Ferenczi), that **drinking fresh raw red beet juice, 250 ml per day, not only stops cancer immediately, but the tumours start shrinking** in the course of a few weeks. What is even more stunning: the data on red beet was generated on a large group of 56 apparently incurable, hopeless patients with different forms of cancer - and **the approach successfully worked for all of them.**

Imagine my utmost surprise when I learned about that by 1996. Despite the scientific basis already created by huge efforts of several generations of scientists, in spite of the fact that all was apparently ready to fight cancer and save many human lives, nothing was being done. Why? What if there had been some mistake? Could I have misunderstood something important, preventing all that vital knowledge from being employed?

Thus, together with a friend of mine, an extraordinarily gifted physician, we decided to conduct our *experimentum crucis* in 1996. After analysing the literature data, I composed a

certain list of what a cancer patient would do to increase their chances for survival. Naturally, fresh raw red beet juice and whole wheat kernels were on top of the list, with some other methods. My friend, Vitaliy, personally visited **100 incurable hopeless cancer patients sent home to die** after their surgery, chemotherapy or irradiation failed. He asked them if they would be willing to participate in our free project: no medicines taken, no extra procedures like irradiation etc., - just do whatever they could do from the list, extract and drink the juice, chew the grains, do some exercises and so on. 90 of the 100 replied they were feeling so exhausted and tortured that they just wanted to die. 10 of the 100 decided to participate. Just a couple months later, Vitaliy told me with astonishment that **their tumours were obviously shrinking, in all 10 of 10**. So everything is working perfectly fine, like a charm.

Now I would add to that list a recommendation to include Dr. Clark's herbs and ozonated oil. And, possibly, ozonated water. And, possibly, very weak solutions of hydrogen peroxide. You see, in 1960's there was an American publication which showed that **in every mouse with grafted cancerous tumours, all tumours completely disappeared in a few months when the mice were drinking water with a low concentration of hydrogen peroxide**. Hydrogen peroxide, as will be discussed later, is also formed in ozonated water.

Summarizing what is said above, a simple and not expensive basic protocol for a cancer patient would look like that:

(1) A cup of 1 teaspoon of soda dissolved in boiling water, in the morning, after waking up. Let it cool down and add 1 teaspoon of blackstrap molasses or honey. If you notice a considerable weight gain (more than you need), make a break for a few days.

(2) At least 1 hr later, take 150 ml of freshly extracted raw red beet juice, 30 minutes before your meal. Extract it yourself: carefully wash the beets with brush, cut out all damaged spots, cut the beets in halves and check if they are not rotten inside. If rotten, discard and take another one. There is no need to peel the beets. If the juice irritates your throat, drink it through a plastic cocktail straw. If it still irritates, take it with your meal, but not together with ozonated oil (see below). You may probably keep the juice in your fridge for an hour or so, but only in a glass or ceramic container. **Do not use metal containers, spoons etc. when storing the juice**. Similarly, take another 150 ml of the juice at night. If you need to start immediately, can not get the juice extractor, it broke etc., just prepare the red beets as described above, peel them, cut them into small pieces with a knife and eat them raw instead of drinking juice, 200 g (half a pound) twice a day. Whether you drink the juice or eat raw red beet, it is **very** important to do that **every** day. One pound of red beets costs about \$1 to \$2 at a store; you also can get them, nice and big, at a local farmer's market for \$8 to \$10 for half a bushel (about 20 to 25 pounds).

(3) Your diet should be composed only of whole plant products. Prepare your food yourself, as much as you can, for this is the only way to make sure everything is done right. Bake your own whole wheat bread, all you need for that is whole wheat flour, water, yeast (or, preferably, sour dough starter) and, optionally, salt. Flour is often falsified or heavily treated with chemicals, so get the best whole wheat flour from a reputable company or, better, mill the grains yourself (a grain mill costs about \$300). Boil wheat grains etc., as discussed above, gradually increasing their consumption to at least a pound per day. Include also vegetables like cabbage, broccoli, garlic and carrots, preferably raw (a potent anti-cancer action of raw carrot was described in Russia by Pirogov in 1843).

(4) Between your meals, take 1 tablespoon of ozonated olive oil, 3 times per day. Ozonate as described by Hulda Clark in her book of 1993 mentioned above. If you experience unpleasant

feelings from that, take the oil with your meal. Add also the herbs recommended by Hulda Clark (details in her book of 1993), cloves (grind it yourself) and wormwood. If you can, prepare the black walnut hull tincture and use it as described by her. Use as many tips and techniques from Hulda Clark's books as you can.

(5) In the middle of the day, at least 2 hrs after the previous meal and no less than 1 hr before the next one, drink 1 cup or more of ozonated water. If you do not have an ozonator (ozone generator) to make your own ozonated water and oil, you might consider taking distilled water with hydrogen peroxide (H₂O₂) for a while. The disadvantage of commercially available 3% hydrogen peroxide solution (about 2\$ per 500 ml in any pharmacy) is that it contains some chemicals added to prevent hydrogen peroxide from decaying. Still, drinking a weak solution of commercial hydrogen peroxide is an option, - just make sure the peroxide is produced by a reputable company and is marked "USP" (= "Unites States Pharmacopoeia"). Start with 1 drop of the 3% solution per 50 ml of distilled water (\$1 to \$2 per a 4-l bottle in almost any store). Increase by one drop with each day. You may go to as high as 10 to 20 drops, but remember about those chemicals, so do not go too high for too long, or make breaks. Generally, drinking each day 10 to 20 drops of USP hydrogen peroxide per 50 ml of water, for at least a few months, is considered quite safe, which should give you enough time to get a decent ozonator (\$100 to \$500, depending on design, on Amazon or Ebay). The above mentioned mice, by the way, were drinking a much higher peroxide concentration. Ozonated water produced by a well-designed ozonator also contains hydrogen peroxide, but is free from chemical contamination. Uses of hydrogen peroxide for medical purposes were started in France by Nisten (intravenous injection) in 1811 (yes, more than 200 years ago!). These days, hydrogen peroxide, including its intravenous injections, is actively being used in Russia by Neumyvakin, who also reports its highly beneficial effects. Application of ozone for medical purposes was started by Tesla in the United States, around 1896, when he invented his powerful ozone generator. Hydrogen peroxide, ozonated oil and ozonated water were also reported to produce complete healing in very difficult and even hopeless cases, from asthma and tuberculosis to serious incurable wounds and skin problems.

Speaking about those mice, they were drinking approximately 0.5% hydrogen peroxide solution. For comparison, such a solution can be generated by adding 200 (two hundred) drops of 3% USP hydrogen peroxide to 50 ml of distilled water. It is, therefore, ten to twenty times more concentrated than the solution discussed above. A more practical way to prepare it: mix 2 teaspoons (or 10 ml) of the 3% hydrogen peroxide solution with 3 tablespoons (or 50 ml) of distilled water. All utensils and kitchenware should be glass, plain white ceramic (for example, porcelain) or plastic; avoid using anything made of metal and drink very slowly, if you decided to do that. Even though the animals were drinking that solution (which resulted in complete disappearance of their tumours) in the course of several months with no apparent harm, humans should gradually increase the peroxide concentration to that level. Increasing the concentration 3 or 5 drops each day would allow to reach the "mouse" level in 60 or 40 days and avoid unpleasant side effects like dizziness. Due to a higher amount of chemical stabilizers at the elevated peroxide concentration, this protocol should be replaced with drinking ozonated water and ozonated oil as soon as possible.

Regarding my experience with the ozonation technique, good results were achieved using a 1000 mg/h ozonator with silicone tubes, when the air supply was limited by an aquarium micro-compressor clamp or valve (available at many pet stores for a few dollars). Thus, the ozone mixture was produced at a rate of approximately 1 ml per second and injected into water or oil through a glass pipette or tube with narrow opening. If your ozonator is rated

differently (say, 300 or 3000 or 5000 mg/h), you may adjust the air supply first for olive oil (get extra-virgin, first cold pressed olive oil). After being ozonated for 1 hr, the oil should have quite a noticeable smell of ozone but not much of bitter taste. If your oil tastes sharply bitter and irritates your throat, gradually increase the air supply (in other words, lower ozone concentration) for the next batch of oil until that bitterness diminishes to acceptable level. Use the same setting to ozonate your distilled water.

(6) Move as much as possible, preferably outside, and breathe fresh air as much as you can. As will be shown below, proper blood circulation (= exercises) and oxygen supply (= fresh air) are extremely important. However, do not overstretch yourself too much and avoid sudden sharp movements.

After this brief and desirably instructive, entertaining, and encouraging discourse, let us go back to the pH story. Thus, abundant scientific data (known even in the XIX century) clearly shows that a plant-based diet very successfully decreases chances for cancer and may even fight it. In terms of pH, such a diet not only improves its value and lowers the acidification rate of the human body but, apparently, provides it with the substances supporting its buffering ability. The importance of that is discussed below. So, some basics - again.

Chapter 3

pH

That mysterious pH mentioned above is merely a convenient expression that shows concentration of H⁺ ions (protons) in a solution when some molecules dissociate, as in equations (2), (3), (4), (6) and (7) in Chapter 1 above.

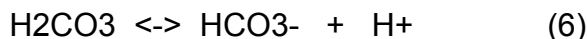
$$\text{pH} = -\lg[\text{H}^+] = \lg(1/[\text{H}^+]) \quad (14),$$

where [H⁺] means concentration of H⁺ ions in mol/l. For example, if [H⁺] = 1*10⁽⁻⁷⁾ mol/l, pH = -lg(10⁽⁻⁷⁾) = -(-7) = 7.

Water itself also dissociates:



and in very pure water [H⁺] = 1*10⁽⁻⁷⁾, so its pH = 7. However, if somebody produced such pure water (say, by triple distillation in a quartz distiller) and measured its pH, (s)he would find, as I found myself, that the real pH of pure water fairly quickly drops to the value between 5 and 6. It happens because CO₂ from the air dissolves in water after it condenses from steam, forms carbonic acid, which dissociates and adds extra protons. We already saw that in Chapter 1:



Thus, abundance of protons means that pH is **below 7**. Such a solution is called *acidic*, because acids (like acetic acid in vinegar, Chapter 1) dissociate in the solution, producing more protons.

Lack of protons means that pH is **above 7**. They call such a solution *alkaline*, because an alkali, like lye from Chapter 1, produces hydroxyl ions when it dissociates:



Then, hydroxyl ions combine with protons:



and form water molecules. As a result, the number of protons drops, so the pH grows.

Note the logarithmic scale. It means a ten-time change in concentration of protons for each unit of the pH. That is why when soda is dissolved in boiling water and its pH is, say, only two units higher comparing to a plain soda solution, it raises the pH of the body 100 times more efficiently, as discussed in Chapter 1 (equations 9 to 12).

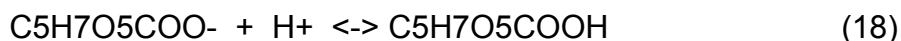
Usually, the pH range spreads from 0 to 14, with 0 being, apparently, extremely acidic, 7 referred to as neutral, and 14 extremely alkaline. However, there is a mysterious area below this range, the realm of negative pH, which may even harbour some cryptic life forms. I myself found viable micro-organisms at pH of 0.34. They belonged to an ancient group of creatures and were probably among the first life forms that inhabited our planet.

The concentration of ions is expressed in mol/l, which means, basically, the number of particles (ions, protons, atoms, molecules etc.) in one litre of a solution. 1 mol is $6.02 \cdot 10^{23}$ particles (Avogadro's number). Thus, at pH 7, there is still a huge number of H⁺ ions: $6.02 \cdot 10^{23} \cdot 10^{(-7)} = 6.02 \cdot 10^{16}$ protons per litre.

There is also a reverse relationship between the concentrations of H⁺ and OH⁻ ions, which follows from the equations 16 and 15 above. Deriving pOH the same way as the pH, in pure water pH = pOH = 7, pH + pOH = 14, pH = 14 - pOH and pOH = 14 - pH. Thus, if the concentration of one of the two ion species is known, that of the other can be easily found.

High concentrations of H⁺ ions (or low pH values), in the presence of oxygen, often correlate with high oxidation potential (redox potential). In the human body, that could increase oxidative stress and additionally damage cells and tissues. On the other side, increasing the pH tends to lower the oxidation potential and relieve the oxidative burden.

Types of food have a big influence on the pH changes in the human body. Ideally, the organic substances we consume should be cleanly "burned" in our body to CO₂ and water. In practice, however, eating animal food generally leads to gradual acidification of the body while plant food helps maintaining the pH at a normal, slightly alkaline, level (for example, pH of the blood is about 7.4). That happens in the course of metabolical reactions and despite the fact that the initial pH of meat is slightly alkaline (pH 7.2 to 7.4) while raw plant food is usually acidic. Most often, its pH lies between 5.0 to 6.0, with some remarkable exceptions like lemon juice, pH of which is about 2.3. Those refreshing exceptions, by the way, are particularly helpful in maintaining our healthy pH, for they contain a lot of valuable organic acids and minerals that properly tune-up our metabolism. For instance, these organic acids (say, citric acid from lemon juice), partly supplied in the form of a salt (say, potassium salt), dissociate, as in the above examples. Then, potassium ion may go its own way while the acid moiety may enter the Krebs cycle and, eventually, "burns" to CO₂ and H₂O, taking a proton from the solution in the course of the reactions and, therefore, increasing the pH. Summarizing:





(19)

Note that only organic acids (for example, from plants) may behave like that. Inorganic or mineral acids, like phosphoric acid (a component of Coca-Cola and Pepsi-Cola and many other drinks) can not be "burnt" that way. If consumed, they would dissociate inside our bodies, releasing their protons and, therefore, lowering the pH. As will be discussed below, due to its buffering capacities, our body can counteract such an adverse change to a certain limit, but eventually it exhausts its capacities and succumbs to the acidification pressure, which leads to development of diseases. Acidification of the body is a formidable precursor and atrocious omen of cancer, diabetes and other illnesses. By the way, they believe that the original formula of Coca-Cola included lemon juice. Later it was replaced with citric acid, which was later changed again to phosphoric acid. To avoid consuming things like that, it is probably a good idea to read the labels on every kind of food and drink you are going to buy, for our food should contain no added chemicals.

In addition to supporting beneficial pH level, plant food supplies the body with the mineral components, including those necessary for maintaining its buffering capacities (will be discussed below), helps neutralizing metabolical poisons and promotes binding and removal of the toxins. On the other side, some natural organic compounds from plants (for instance, oxalic acid) may potentially be harmful if over-consumed. Such products as tea (especially black tea), cocoa, chocolate, coffee, sorrel, rhubarb, spinach and some others - contain elevated amounts of oxalic acid. In particular, they believe that oxalic acid may be harmful because with calcium it forms sharp crystals that can damage the kidneys (or promote the formation of kidney and liver stones). They definitely can: I myself had many occasions to observe crystals of calcium oxalate under a microscope, they are really sharp and look like tiny blades. However, before reaching the kidneys, oxalic acid has many chances to react with calcium ions in the food, in the intestine or in the blood, to be bound in insoluble form and to be excreted outside. Besides, it is constantly being formed in the body in the course of our normal metabolism. Thus, while consuming too much food (especially processed) with high content of oxalic acid does not look like a good idea, low to moderate amounts of, say, sorrel, rhubarb or spinach in most cases would hardly be dangerous, and practical experience confirms that. Coincidentally or not, but plants with an anti-cancer activity often contain some amounts of oxalic acid, for example rhubarb or red beet.

It is interesting to note that the cuisine of many nations looks as if they tried to avert the action of high levels of oxalic acid. For example, drinking tea with milk is a tradition being practised over vast extent of Eurasia, from England to Kazakhstan and the limits of China. If we add to that the habits of drinking coffee and hot chocolate with milk, they will probably comprise most of the world. Milk contains calcium, which binds oxalic acid in tea, coffee and chocolate, right in the cup. Unfortunately, a cancer patient can enjoy none of those drinks, for milk is an animal product (see Chapter 2). Moreover, while tea, coffee and chocolate originate from plants, they probably should not be consumed in this case, too, - and not only because of high amounts of oxalic acid they contain or the ways the food was processed. They have the ability to increase blood pressure while all plants efficient against cancer that I have found so far have one more common trait: they possess a remarkable hypotensive effect. This means they are working the opposite way and are lowering blood pressure, perhaps limiting the supply of nutrients to the tumour.

There is yet another aspect of the pH. Protons (H^+) are positively charged and hydroxyl ions (OH^-) are negatively charged, so they play an important role in the electrical charge distribution in living systems. The fatal drop in the value of pH - pH_i found by Vles (Chapter 2)

can also be described as the loss of negative charges and accumulation of positive charges in the body. This aspect was analyzed by Alexander Tchijevsky, a Russian scientist, almost 100 years ago. He invented an electrical machine that could "recharge" the human organism by adding negative electrical charges. Among many other highly beneficial (as I observed myself, often literally miraculous) health effects, application of his machine led to a higher value of pH - pHi, preventing cancer or slowing down its progress. Tchijevsky also noticed that ageing or a disease tend to lower the pH. However, as we already know, lowering the pH lessens the value of pH - pHi, which, in turn, triggers illnesses. Thus, ageing and diseases self-accelerate, harming the human body and causing cancer, among other maladies.

By the way, the idea of "recharging" the organism was one of the basic principles of another healing electrical apparatus built in the 1920s by George Lakhovsky (another Russian scientist) with help from his friend Nikola Tesla. While Lakhovsky's machine was also greatly improving many aspects of human health, its main target was cancer. Available memoirs show an exceptional efficiency of this machine in curing cancer: just a few sessions, each about half an hour, were enough for a complete healing. Using his device, George Lakhovsky was even curing poor patients for free! Some fundamental principles of his approach are similar to those of Hulda Clark's, even though she was probably not familiar with Lakhovsky's work.

Now, when we know what is the pH and why it is so important, let us talk about the second member of that crucial difference, the pHi (or pl, as they prefer to style it nowadays).

Chapter 4

pHi, or pl

(to be continued)