

A NEW BIOCHEMICAL MODEL OF HOMEOPATHIC EFFICACY IN PATIENTS WITH CHRONIC DISEASES

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ABSTRACT

According to a contemporary model of homeopathic function, photons detected from remedies with an associated magnetic vector potential and demonstrable frequencies in the MHz-region probably excite substrate-enzyme-complexes along pathological pathways in patients. Substrates in high potencies regulate these pathways as well as their reversible and irreversible inhibitors in XMK or LMK potencies, in chronic diseases. Hashimoto disease could be cured by using the highly-potentized inhibitors of calcium metabolism such as *Platinum metallicum*, *Silicea* and *Alumina* by affecting a reaction chain involved in regulating the immune system. Furthermore, when the substrates of the thyroid enzyme metabolism are given in high potencies, such as *Kalium iodatum*, *Iodium*, *TSH*, *Thyroxine*, *Triiodo-thyroninum* in XMK potency administered twice a week, thyroid antibodies vanished after three to four months. When the symptom of a dry cough is present, it indicates two different biochemical pathways: firstly, the respiration chain enzymes, and secondly, the nerve-muscle-system leading to paralysis may be involved. A case of cough associated with a lack of iron in the respiratory chain was initially healed by the inhibitors *Kalium cyanicum* LMK and *Hydrocyanicum acidum* LMK, followed by the substrates of the respiratory chain: *Ferrum metallicum* LMK, *Cuprum metallicum* LMK and *Coenzyme Q* LMK. A case of paralysis of the chest muscles in asthmatic cough was cured by the irreversible inhibitor of acetylcholine receptor *Naja tripudians* LMK, the reversible inhibitors *Belladonna* LMK or *Atropinum* XMK and by the substrate *Acetylcholine* XMK. Paralysis concerning the destruction of the membranes were healed by *Tetanotoxinum* LMK as an irreversible inhibitor, *Lecithinum* LMK as an associated substrate as well as other unsaturated fatty acids such as EPA LMK. Potent remedies of the enzyme acetylcholinesterase were *Dendroaspis* LMK as an irreversible inhibitor, *Alumina* LMK as a reversible inhibitor and *Acetylcholin* XMK as a substrate.

These results lead to the conclusion that remedies associated with irreversible inhibitors act to counteract the syphilitic miasm, reversible inhibitors the sycotic miasm, and substrates the psora miasm. This explains the symptom pictures of Psora, Sycosis and Syphilis in biochemical terms. If the pathological pathways are known, the most appropriate remedies might be found to act as substrates, reversible and irreversible inhibitors of the known biochemical pathways.

KEYWORDS: photons in remedies, photons with several frequencies, irreversible inhibitors as remedies, reversible inhibitors as remedies, biochemical substrates as remedies, psora, sycosis, lues

INTRODUCTION

Past research involving “homeopathic information” in high potency remedies were able to be demonstrated as photons with frequencies in the MHz-region. These photons associated with high homeopathic potencies were detected by two magnetic resonance methods: firstly, by photomultiplier method and secondly, by a Tesla-coil method.¹⁻³ Both methods allowed the determination of physical properties of these photons: coherent quantum behaviour, damping of the magnetic field with at least two resonance frequencies in the MHz region, defined frequency spectra after being excited by one of their characteristic resonance frequencies, and reproducible measurements of the associated potencies. Bajpai proposed a quantum model for the analysis of delayed luminescence signals.^{4,6} The model specifies the shape of a signal having non-exponential character by four real positive parameters B_0 , B_1 , B_2 and t_0 of the fitting curve. The photons of the remedies are characterized by the B_2 coefficients, an indication of coherent quantum behaviour, whereas the photons emitted by living organisms, called Biophotons, detected by Popp show significant B_1 coefficients, implying coherent quantum behaviour.^{1,2,4,5} The detection of photons in remedies substantiates Popp’s theory that homeopathic information must be an energy reacting with the coherent field of diseased living organisms according to the principle of resonance.⁷

Popp formulated a physical explanation of health and illness as follows:^{5,8} The healthy

state of an organism is analogous to conditions existing at the boundary conditions of a laser, an oscillation between chaotic and coherent conditions, with 50% of photons in a state of excitement and 50% in a non-excited state. The equilibrium condition is achieved by uptake and emission of Biophotons with different frequencies which cooperate with the coherent field of the healthy organism. Illness means either too many excited states or too many non-stimulated ones. During illness, a balance of energy levels cannot be achieved and the emission of the frequency pattern of the photons is different from that of the healthy ones.

Coherent photons with more than one frequency in the MHz region are found in highly potentized remedies.^{1,2} The question is, what influence on the coherent field of an ill patient do they have due to their magnetic fields and distinct frequency content. The assumption is that they convert pathologic enzyme pathways into normal ones. The photons associated with the remedies will be assimilated through resonance by the same electromagnetic frequencies associated with the pathological enzyme pathways.^{7,8} In this way, a surplus of excited states will be attenuated, the excess photons are then emitted, and ground states will be re-established to normal levels of energy in the pathways. It is further concluded that the frequency patterns of healthy and ill persons are different from each other and that they are dependent on the status of the disease.

This assumption is supported by the experiments of van Wijk and Cifra measuring time-dependent human Biophoton emission, Pokorny observed a different electromagnetic field in healthy and cancerous tissues.⁹⁻¹⁵ Musumeci et al. measured laser-induced, ultraweak delayed luminescence in normal and tumour human cells by photomultiplier method.¹⁶

Herbert Fröhlich attributed quantum mechanical processes to complex living systems.^{17,18} He predicted long-range quantum mechanical phase correlations in biological systems and expected non-linear excitations to lead to metastable conditions, if organs and enzymes were exposed to energy pumping far away from thermal equilibrium and their normally-associated resonant frequency. Fröhlich defined these oscillations as molecular processes involving the biological cell as a structural entity. He showed that a non-linear interaction will channel energy into coherent modes and that the excitation of organs to their correct frequency could be achieved by energy pumping from metabolic sources. Cyril Smith provided experimental support for Fröhlich's theoretical work.¹⁹ He found large dielectric constants in biologic material. He observed that coherent electromagnetic and magnetic energies influence the activity of neuroendocrine organs, inducing the synthesis of melatonin and enzymes of biochemical pathways such as lysozyme.²⁰

Liboff measured the alteration of calmodulin nucleotide phosphotransferase in a 20 mT magnetostatic field, and proposed a

process he called cyclotron magnetic resonance.²¹ Extremely weak magnetic fields affected myosine phosphorylation as Markov observed.²² Lisi et. al showed cell differentiation in pituitary and other glands under the influence of cyclotron magnetic resonance at 7Hz and a field strength of 100 μ T.²³ They were comparable to the effects of Ca²⁺ -ion influx into cells.

As a consequence, many instruments have been developed that create low-level electromagnetic and magnetic fields claiming to have beneficial effects. Of the numerous frequencies that interact with the organism, one or more could cause new diseases.

It was Schüssler who started biochemical thinking in homeopathy in the previous century when scientific research in this medical branch began. He said that "The Salts of Schüssler" work according to their biochemical function in the body. Witt described reproducible effects of remedies on enzymes.²⁴ Harisch and Dittmann were able to show reproducible effects of low and highly diluted remedies on the activity of different rat liver enzymes.²⁵⁻²⁷ They concluded that homeopathic remedies control enzyme activity. A further assumption is made: during the treatment with homeopathic remedies the pattern of the emission of photons or frequencies is changed. This means that each frequency generated and probably emitted by the ill patient must be cancelled by photons having the same frequency present in the remedy according to the resonance principle and the "Law of Similars."¹⁻³

This model has consequences for homeopathic treatment. It may be possible to use substrates of the pathological pathways in high potencies to cure patients. This could lead to an expanded biochemical homeopathy being developed. Such a method would use established laboratory values as well as the changing symptoms to monitor patients during the healing process.

MATERIALS AND METHODS

PATIENTS: CHILDREN AND ADULTS, FEMALE AND MALE OF DIFFERENT AGES

In my practice of classical homeopathy all kinds of patients, shown in this publication, were treated with homeopathic remedies. Relevant laboratory tests were gathered from the clinical laboratories of the patient's medical doctor or in the course of a routine clinical workup. During homeopathic treatment, the patients did not take any new medicine prescribed by their medical doctor, however, their established prescribed medicines were continued. All newly developing symptoms were treated by me only with homeopathic remedies.

REMEDIES UTILIZED

Korsakoff (K) potencies as MK (1,000 dilution steps and 10,000 succussions), XMK (10,000 dilution steps and 100,000 succussions), and LMK (50,000 dilution steps and 500,000 succussions) were purchased as globuli from Heel-Belgium, info@heel.be.²⁸ Every application contained two to five globuli of a particular potency.

FINDING THE APPROPRIATE REMEDIES ACCORDING TO THE "LAW OF SIMILARS"

A patient suffering from a chronic disease has overlapping symptoms originating from a lot of imbalanced pathways. Therefore, he or she is probably emitting a frequency pattern of photons far away from healthy equilibrium. The appropriate remedies should contain photons with frequencies capable of restoring pathological pathways back to normal, by attenuating the overactive energy states or by exciting the deficient ground states. The curative process usually begins at the lowest or highest energy level, which means that remedies of irreversible inhibitors (lethal poisons) are needed, first. This agrees with the symptoms of the chronic disease state of the patient at that moment. Treatment follows the principle of resonance between the patient's frequencies and those of the remedies. Most of the patients are able to feel the emitted frequencies of the appropriate remedy in their hands.

The response may be felt as a tingling, as heat, as a pulsation or simply as the vanishing of the symptoms of illness. After having taken the globuli of the correct remedy, or sometimes several doses of higher potencies each, as XMK or LMK, the symptoms associated with the remedy aren't felt any longer by the patients on that day. Subsequently, the development of new symptoms associated with that remedy will probably be observed. A knowledge of the biochemical reactions and the new symptoms reported by the patient guide the practitioner to the next appropriate remedy.

From the moment that the patient has taken the correct remedies in high-enough potencies and enough dosages of them, the next symptoms of the remedy develop instantaneously and not in the following month or longer! Photons associated with the remedies are assimilated in a sequential manner. We hypothesize that increasing biophotonic energy levels are built up allowing appropriate quantum transitions to occur. This leads to achieving the normal substrate condition of the biochemical pathways and a resulting balanced psychological condition.

These usually involve *Phosphorus* or *Sulphur* constitutional types corresponding to the phosphor or sulphur biochemical metabolism. At the same time this treatment offers the best chance to rapidly solve the patient's original psychological problem. For example, sorrow and grief develop the symptom complex of *Phosphorus*, while disrespect and disregard can lead to the symptom complex of *Sulphur*. If the original problems remain unresolved, the patient slips back into the overlapping symptoms of depression or/and panic corresponding to the symptom complex of *Crotalus* or *Lachesis*. Because the state of grief and panic has a broad range of expression, it might be necessary to give remedies such as *Spider* or *Scorpions* before *Crotalus* or *Lachesis*.

This explains why in those cases it is not sufficient to administer only one remedy such as *Lachesis*, a remedy normally used to attain a final desired state or *Phosphorus*, a remedy normally given in the beginning.

Administering only a single remedy would leave the patient hanging between states without assisting the movement into one state or the other. Now it is evident that if you attenuate the symptoms of the early manifestation with the help of the first remedy (*Phosphorus* or *Sulphur*), the patient will likely develop even stronger symptoms of the complexes of *Scorpions*, of *Spiders* and of *Snake venoms*. This explains why so many homeopathic therapists, believing in the one-remedy-doctrine, are faced with these symptoms or provings as a consequence of their treatment. However, I found that chronic diseases can be cured successfully. The psychological symptoms are triggered by a defect in the biochemical pathways, as every homeopathic therapist knows. I have found in my practice that more than 80 % of today's patients are suffering from symptoms created by medicines which must be treated first. Thereafter, the normal homeopathic treatment can follow with the same number of remedies that Hahnemann used 200 years ago.

BIOCHEMICAL HOMEOPATHIC HYPOTHESIS:

It is proposed that biochemical pathways can operate at various energetic levels. Photons contained in remedies can be used to attain these higher states of excitation, operating through quantum transitions. If diseased conditions exist within an organism, quantum processes will not function properly. Enzymes will then lose their natural configurations or their protein structure can become denatured.

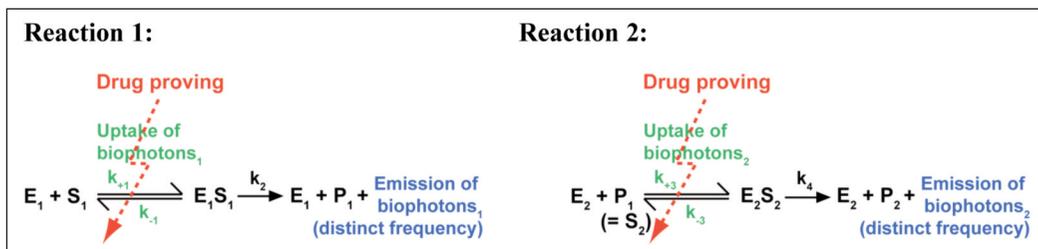


Figure 1: Enzyme-substrate-complexes are excited by distinct photons, they are inhibited during drug provings and illness

ENZYME REACTIONS IN HEALTH, DRUG PROVINGS AND ILLNESS

In a human organism, biochemical pathways are in a state of dynamic equilibrium with each other. Specific metabolic pathways tend to maintain this dynamic equilibrium, in which rates of formation of intermediates equals the rates of break down, so that concentrations remain constant. This occurs in a healthy state.²⁹

Before starting a reaction, enzymes mostly perform a change in their molecular conformation, which needs energy to form enzyme-substrate-complexes. Both enzyme and substrate achieve excited states through the uptake of photons having the specific frequencies necessary for this reaction. After the end product is formed, the used photons are emitted. For the next reaction step, photons with other frequencies are utilised (Figure 1).

In this process, the activation energy of the enzymatic reaction is lowered and the conversion of the substrate into its product can begin. The product of the first reaction will be the substrate of the second reaction, and this is continued in so-called reaction chains, all steps dependent on each prior successful completion.

Each enzyme needs a certain substrate concentration to start the reaction. In case the substrate concentration is too low or too high, the reaction does not start. One reason for that is the lack of substrate, another reason is a substrate inhibition. As a consequence, if the synthesis of a specific product is inhibited, the substrate of the following reaction will not be available and subsequent products are not produced. Similarly, if the concentration of a product in a reaction chain is too high, the appropriate substrate will not be converted into the product due to feedback inhibition (Figure 1).

DRUG PROVINGS OR DISEASES DISTURB THE DYNAMIC EQUILIBRIUM OF THE BIOCHEMICAL PATHWAYS

All kinds of enzyme inhibition can take place during drug provings or illness, including several reaction chains becoming blocked, even several at the same time. Both drug provings and illness follow the same mechanism: a dose of a poison or a sudden event in the patient's life can block biochemical pathways at once, or can change the concentration of a substrate.

Drug provings occur if the drug is a potent

inhibitor of the first step of enzyme reaction: then early symptoms, called homeopathic symptoms, develop. The next reaction in a chain depends on successful completion of the previous one so that a missed product develops additional disease symptoms, and so on. Additional and often superimposed symptoms develop in the course of several disturbed enzyme reactions. If, for example, five enzyme reactions are blocked or involved in a chronic disease, in order to go back to the initial healthy state, you will need five homeopathic remedies. Then the substrates of each of the enzyme reactions are given in high potencies, one after the other.

EXAMPLES OF THREE DIFFERENT PATHWAYS INVOLVED IN THREE DIFFERENT CHRONIC DISEASES

- 1) Hashimoto thyroiditis, an autoimmune illness
- 2) Pertussis and low hemoglobin, iron and ferritin – imbalanced cellular oxygenation
- 3) Paralysis, a nerve action potential conduction problem, concerning asthma and general paralysis

CHRONIC DISEASES ACCORDING TO HAHNEMANN

Hahnemann described three different types of chronic diseases: Psora (lepra, scabies), Sycosis (gonorrhoea) and Lues or Syphilis, called miasms, obtained by inheritance.³⁰ A long time ago these three epidemics were established at the genetic level. Therefore, the patients will get diseases similar to these three epidemics. It is important that the remedies can now be adjoined to them and

a better choice can be made concerning the suitable remedy for the patient. Psoric remedies mean an acute phase of the diseases. Sycotic remedies mean a little deeper illness, Syphilitic remedies mean a deep chronic phase, very often not possible to cure. Healing by remedies means to go back progressively from the Syphilitic state to the Sycotic state, then to the Psoric state, by using the corresponding remedies.³¹

CHRONIC DISEASE 1: HASHIMOTO-THYROIDITIS, AN AUTOIMMUNE ILLNESS

All my patients with Hashimoto disease received L-Thyroxine 50 – 125 µg per day in the beginning of homeopathic treatment. The dose was reduced slowly in several steps. During that treatment the patients were continuously observed with the help of lab data from their medical doctors.

The patients with Hashimoto-thyroiditis suffered from the following symptoms: Elevated TPO antibodies which can cause a hypofunction of the thyroid by the formation of TPO antibody complexes. Under this condition the hypofunction of the calcium metabolism can simultaneously occur, because the syntheses of the hormones calcitonin (synthesized in the C-cells of the thyroid) and parathormone (synthesized in the parathyroid glands) are blocked.

These patients suffered from the following symptoms: bronchitis, asthma, sexual hormone deficiency, high blood pressure, and general inflammation, especially of the pericardium and endocardium, lack of

bone-matrix caused by a disturbance of the calcium pathways as a consequence of the hypofunctioning thyroid due to the lack of utilization of potassium iodide. As a consequence, the Ca^{++} regulation is increasingly suppressed, the immune system is weakened and not well regulated, leading to the increased synthesis of autoantibodies.

The following homeopathic potencies of constituents of the normal thyroid hormone synthesis pathways were utilised: *Kalium iodatum* LMK, *Manganum aceticum* LMK, *Iodium* LMK, *Thyroxinum* XMK(T_4), *Selenium* LMK and *Tri-iodothyroninum* XMK (T_3), *Hypothalamus* LMK, *Hypophysis* XMK, *TSH* in XMK.

To support regulation of the Ca^{++} pathway, *Parathormon* XMK, *Calcitoninum* XMK, *Calcium-phosphoricum* or *Calcium-fluoricum* in XMK or LMK were used as the **substrates** of that pathway; *Platinum metallicum*, *Palladium metallicum*, *Plumbum metallicum* as the **irreversible inhibitors**; and *Aluminium silicate*, *Silicea*, *Alumina*, *Barium carbonicum*, as the **reversible inhibitors**. These were given twice a week, two to five globuli of each remedy, in a specific sequence. Sometimes only potencies of the reversible inhibitors are necessary. In addition, *Immunoglobulin A* in XMK potency, *Gammaglobulin* in XMK potency, and *Immunoglobulin M* in XMK potency, had to be given in order to activate the immunoglobulin syntheses. Inflammation is mostly cured by remedies which poison the Ca^{++} pathway, e.g., the immune system remedies: *Silicea*, *Kalium bichromicum*, *Mercurius solubilis*, *Hepar sulphuris*.

SYNTHESES OF HORMONES AND NEUROTRANSMITTERS INVOLVING Ca^{++} IONS

Note: The names of the homeopathic remedies which are available are italicized and in parentheses.

The syntheses of neurotransmitters and steroid hormones require Ca^{++} ions inside the cell, which are released from the endoplasmic reticulum. This is only possible with a second messenger IP_3 (inosine triphosphate) which is synthesized by the presence of Li^+ ions and several inosine phosphates. Therefore, *Lithium carbonicum* and *Phosphorus* are assumed to stimulate the synthesis of inosine triphosphate. Cyclic adenosine monophosphate, another second messenger, stimulates the Ca^{++} -release inside the cell as well. Therefore, *cyclicum Adenosine monophosphoricum* in XMK potency is added.

In the brain, as well as in the adrenal medulla, neurotransmitters are synthesized in a reaction chain as follows: The essential amino acid phenylalanine is converted to another amino acid tyrosine (*Tyrosinum*). Through the enzyme tyrosinase, a catechol oxidase containing Cu^{++} ions, dopa (chemically called dihydroxyphenylalanine) (*Dopa*) is formed.³² This is followed by a manganese-containing enzyme to synthesize dopamine (*Dopaminum*), which is then converted to noradrenalin (*Noradrenalinum*) by a catechol oxidase containing Cu^{++} ions.²⁰ Then noradrenalin is methylated to adrenalin (*Adrenalinum*) by an S-adenosyl-methionine-containing enzyme.

The dopa/dopaminergic neurons feel pain. Other neurons, the glutamine and glycocholl-neurons which first open chloride- and bicarbonate-ion channels, and then Na^+/K^+ -channels, are very pain-sensitive neurons. These are often anaesthetized with barbiturates and narcotics, e.g., diazepam (*Diazepam*). In order to activate recovery of these neurons, homeopathic neurotransmitters are given in high potencies. To cure the neurons and thus ataxia, often *Secale cornutum*, *Tarantula hispanica*, and *Heloderma* are necessary in coordination.

Other remedies such as *Epididymus suis* XMK and *Androsteendionum* XMK are given to cure epididymitis in men, a disease which can develop due to the lack of steroid hormones.

To better understand the treatment approach, the normal functioning of thyroid pathways are explained first and then what is not working in Hashimoto's disease. The normal syntheses of thyroid hormones T_4 and T_3 and the regulation of the Ca^{++} pathways are shown in Figure 2

In Hashimoto's thyroiditis, the syntheses of autoantibodies to thyroglobulin (anti-TG) and selenoperoxidase (anti-TPO) are caused by a preceding hypofunction of the thyroid. It is mostly caused by L-Thyroxine given in high doses as a medicament for the subfunction of the thyroid or by an inborn hereditary tubercular miasm or perhaps by both. Simultaneously, the calcium regulation of the body, especially of the immune system, is out of balance, because of the inhibition of the syntheses of calcitonin in the C-cells

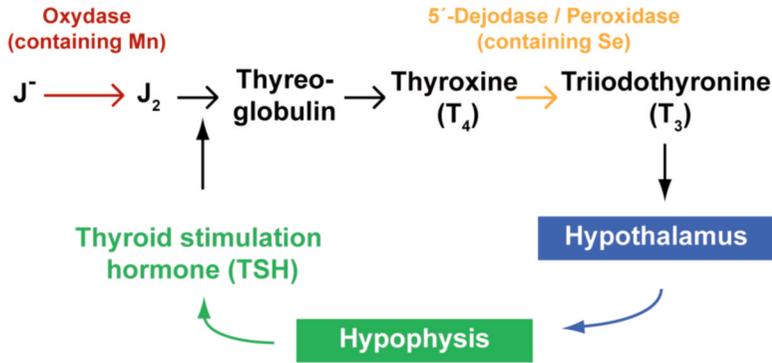
and of the parathormone in the parathyroid gland. Therefore, the synthesis of the immune system in medulla and in other glands is affected, leading to autoantibody synthesis.

Hypofunction means that potassium iodide is not completely incorporated by the thyroid and iodide ions are not oxidized to I_2 by a manganese-containing enzyme. As a result, thyroxine cannot be synthesized sufficiently and thyroglobulin stored in the follicles cannot be mobilized to thyroxine (T_4). In a further step, thyroxine is converted by selenoperoxidase to triiodothyronine (T_3). The selenoperoxidase-antibody complex causes a lack of T_3 .

In the body, the regulation of Ca^{++} is controlled by the two peptide hormones of the thyroid, calcitonin and parathyroid hormone (PTH). Hypofunction of the glands means that Ca^{++} might not be available in large enough quantities for the synthesis and regulation of the immune system, e.g., T-cells and B-cells and spleen metabolism, where the syntheses of the antibodies IgA, IgG, IgM take place. Within these fractions of immunoglobulins, the auto antibodies to the thyroid enzymes are found. The antibodies increase the hypofunction of the thyroid and a vicious cycle is established.

As a result the function of the thyroid is nearly stopped, which is recognizable by the increased levels of autoantibodies to the thyroid. Allopathic treatment consists of prescribing large amounts of L-Thyroxine (often 100 μg per day), which additionally

Normal function of the thyroid:



Ca⁺⁺ - regulation by the following peptid hormones:

C-cells : calcitoninum ↔ parathormone : glandula parathyreoideae

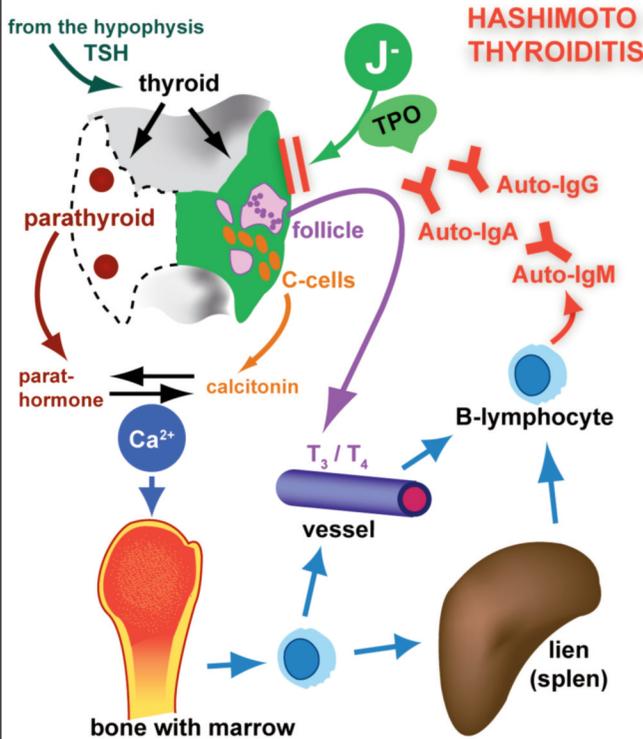


Figure 2: Regular function of the thyroid and the pathological pathway of Hashimoto thyroiditis.

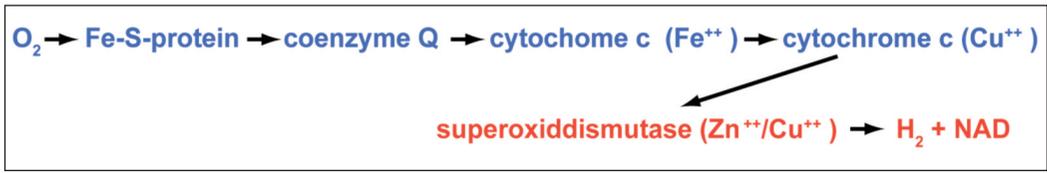


Figure 3 Respiratory chain (minerals associated with enzymes):

inhibits the natural function of the thyroid. This will lead to other symptoms including bronchitis, allergies, an accelerated heart rate, anxiety, nervousness, osteoporosis, problems with steroid hormones and fatigue. Digestive diseases also occur because of imbalanced enzyme and protein production, likely caused by a dysfunction of the pancreas and liver.

**CHRONIC DISEASE 2A)
ASTHMA AND/OR CELLULAR
RESPIRATION IS BLOCKED**

Patients suffering from dry cough with or without low hemoglobin and low iron levels, as measured in the laboratory of the attending medical doctor.

Homeopathic assessment of a dry cough:
Two different biochemical pathways could be involved:

- 1) Respiratory chain involvement with a

- lack of iron, copper and zinc
- 2) Nerve paralysis of the muscles in the chest or in the rest of the body

The important steps of the normal function of the respiratory chain are shown in Figure 3. Substances that sustain the normal working order were obtained as homeopathic remedies. The active substances of these homeopathic remedies (Table 1) are *Coenzyme Q* LMK, *Ferrum metallicum* LMK, *Cuprum metallicum* LMK, *Zinkum metallicum* LMK, additional *Haemoglobinum* XMK, *Ferritin* XMK and *Cortisonum* XMK, as well as *Pertussinum* LMK, *Tuberkulinum Koch* LMK, *Carbo vegetabilis* LMK, *Stannum metallicum* LMK, *Zinkum metallicum* used in carbonic anhydrase enzyme located in the cell walls of erythrocytes which eliminate CO₂.

Table 1

Homeopathic remedies for:	CO₂ elimination
Respiratory chain: O₂ utilization <i>Coenzyme Q</i> LMK <i>Ferrum metallicum</i> LMK <i>Cuprum metallicum</i> LMK <i>Kalium cyanicum</i> LMK <i>Hydrocyanicum acid</i> LMK <i>Hydrogen</i> XMK <i>Zinkum metallicum</i> LMK	<i>Zinkum metallicum</i> LMK <i>Carbo animalis</i> LMK <i>Stannum metallicum</i> LMK <i>Carbonicum oxygenatum</i> LMK
Haemoglobin synthesis <i>Ferritin</i> XMK <i>Ferrum metallicum</i> . LMK <i>Haematoporphyrinum</i> XMK <i>Haemoglobinum</i> XMK	

HEMOGLOBIN SYNTHESIS IN THE BONE

In the liver, iron is stored in ferritin and transferred to transferrin to be incorporated into porphyrin. It is then called hematoporphyrin. Then hemoglobin is formed out of four peptid chains each containing a hematoporphyrin ring and then becomes incorporated into the erythrocytes. Nearby, the cytochrome C-enzymes of the respiratory chain also contain porphyrin rings as the prosthetic group.

Pertussis: an O₂ utilization issue, low Hemoglobin or low iron levels

Pertussis, caused by Pertussis vaccination or by infection with the pathogen *Bordetella pertussis*, has become an endemic disease. Oxygen cannot be metabolized which causes a dry, hard cough, difficulty breathing, and coughing fits. Under this condition, the body wants to get more oxygen. Its main cause is a lack of iron, because *Bordetella pertussis* as well as *Haemophilus influenzae* and *Chlamydia* need iron for their growth.³³ They take it from the body in the form of ferritin, transferrin, hemoglobin, the iron-containing Fe-S proteins and from the cytochrome systems of the respiratory chain in the mitochondria. In most cases the laboratory values of ferritin and iron are low.

The following remedies were mainly used to stop the incessant coughing: *Kalium cyanicum* LMK and *Hydrocyanicum acidum* LMK.

Potassium cyanide and hydrocyanic acid as material substances are lethal and bind the iron by forming a hexacyanoferrate complex in a chemical reaction. Breathing becomes impossible if this happens. The iron of the

respiratory chain in whooping-cough is in a state similar to an intoxication from potassium cyanide or cyanic acid. *Hydrocyanicum acidum* LMK and *Kalium cyanicum* LMK are the appropriate remedies to reverse the reaction of the material substances and keep the iron system functioning. Thereafter the remedies *Ferritin* XMK, *Ferrum metallicum* LMK and *Cuprum metallicum* LMK are administered to restore the respiratory chain. Then *Haematoporphyrinum* XMK and *Haemoglobinum* XMK are taken two times a week for better absorption of oxygen. *Cortisonum* XMK stops the inflammation. After this protocol, the laboratory values of ferritin and Fe⁺⁺ generally increase.

It is necessary to know the mechanism of the poisoning by drugs to find the remedies corresponding to the blocked enzymes. An example will illustrate the matter. In case of coughing and strong difficulty breathing, the important first remedy to take is a drug in which the material substance is a **lethal, irreversible inhibitor** of iron in the respiratory chain such as homeopathic potassium cyanide or hydrocyanic acid. During the reaction of these substances with Fe⁺⁺ -ion to form a hexacyanoferrate complex, the iron is hidden by the complex itself. As a result of the formation of the complex, the patient starts to cough in order to gain oxygen, later on the patient suffocates. The high potency of *Kalium cyanicum* and *Cyanicum acidum* regenerate the function of iron in the respiratory chain of the patient.

The natural substrates of the respiratory chain are Fe⁺⁺ ions, Cu⁺ ions, *coenzyme Q*,

zinc ions, Fe-S proteins, further coenzyme Q, the cytochrome system, porphyrin ring systems with their prosthetic group containing iron or copper. The active center of the enzyme superoxide dismutase (SOD), which creates oxygen and $H_2 O_2$, are zinc and copper ions. My patients were treated according to this pattern. Homeopathic treatment starts with a patient in a chronic state which generally means that they first require the irreversible substrate in a very high potency, e. g. *Kalium cyanicum* or *Cyanicum acidum* in LMK. Thereafter the patient improves sufficiently to the **normal or reversible** state with *Coenzyme Q* in LMK, *Ferrum metallicum* LMK, and *Cuprum metallicum* LMK.

As shown in these explanations, the irreversible inhibitor *Kalium cyanicum* or *Hydrocyanicum acidum* in LMK potencies were given first, followed by the normal substrates of the respiratory chain. This procedure was applied in all cases: high potencies of the **irreversible inhibitor** first, followed by the **reversible inhibitor** and finally the **normal substrate** remedies to reverse the pathological pathways.

During their homeopathic treatment patients were supervised by a medical doctor to ensure that the correct diagnosis was made and so supervise the results of homeopathic treatment.

CHRONIC DISEASE 2B) ASTHMA, THE BREAST MUSCLES ARE BLOCKED BY PARALYSES

The symptoms of coughing and breathing difficulties can have their origin in different

metabolic chains. In the following analysis it is the muscles of respiration that become cramped, so that oxygen cannot be assimilated well. It is postulated that the paralysis of these muscles leads to chronic obstructive bronchitis. The conduction of action potentials from the nerve to the neuromuscular end-plate involves the release of acetylcholine into the synaptic fluid where it gets bound by the acetylcholine receptor in the postsynaptic region. This causes ion channels of K^+ and Na^+ to be opened, which then further opens the Ca^{++} ion-channels (Figure 4). Simultaneously, the acetylcholinesterase at the back of the acetylcholine receptor splits acetylcholine into choline and acetyl acid for a new synthesis of acetylcholine at the presynapsis. Thereafter, the muscles can work again.

Acetylcholinesterase

After the binding of acetylcholine by the acetylcholine receptor, the enzyme acetylcholinesterase in the postsynaptic space is responsible for splitting acetylcholine into acetyl acid and choline in the presence of K^+ . This enzyme is irreversibly inhibited by the venom of *Dendroaspis polylepis* (black mamba), and reversibly inhibited by aluminium.³⁴ According to the method here presented, the paralysis is alleviated by using all these substrates in high homeopathic potencies as LMK.

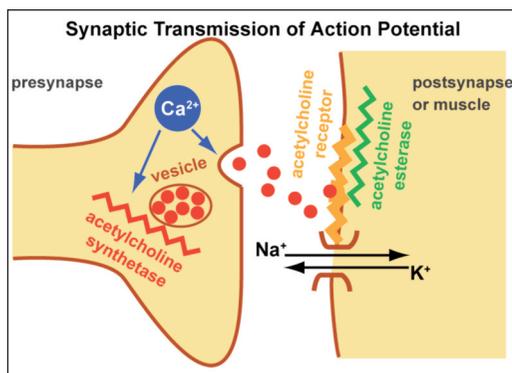
Vesicles at the presynapse

One cause of paralysis can be a membrane problem. The vesicles storing and emitting the neurotransmitter acetylcholine in the presence of Ca^{++} do not have their proper function, because their membrane structure,

the lipid layer, is not complete. This can happen after application of medicines including vaccination against tetanus or diphtheria. A disturbance in the fatty acid and protein metabolism can cause similar effects. In these cases the natural ratio between saturated and unsaturated fatty acids and proteins is not achieved. Certain substances paralyze and destroy membranes completely. Homeopathic remedies obtained out of these substances reverse this process and heal the membranes. Very often these substances are poisons which have reactive, unsaturated double carbon and triple carbon bonds in their molecular structure. These are found in *Cicuta virosa*, *Aethusa*, *Conium*, *Strychninum*, *Curare*, *Nux vomica*, and *Aconitum*. Therefore, it is possible to repair membrane destruction of the vesicle by applying these poisons in high homeopathic potencies. The function of the nerve synapse is further explained in Figure 4.

Cobrotoxin as well as bungarotoxin are lethal, **irreversible inhibitors** of the acetyl-

Figure 4. Regular pathways of synaptic transmission which are blocked in the case of paralysis.



choline receptor in the postsynaptic space.³⁵ After a bite from a cobra or an Indian krait (bungaroides, a relative of cobra), the human being gets a feeling of constriction, starts to gasp and to cough. Then breathing and assimilation of oxygen stop completely, as if a heavy weight was lying on the chest. The person cries in panic and develops pain in the left arm. The two lethal poisons paralyze the respiration muscles, as well as all voluntary muscles. The symptom picture of *Naja tripudians* describes these symptoms and *Naja tripudians* LMK heals these symptoms and regenerates the acetylcholine receptors.

Atropine is a reversible inhibitor of the acetylcholine receptor. High potencies of *Atropinum* as well as homeopathic potencies of the solanaceae family of herbs such as *Solanum nigrum*, *Hyoscyamus*, *Stramonium* or *Belladonna* heal this receptor when it is not too imbalanced. Very often *Phosphorus* LMK is added, because the receptor is phosphorylated and thus activated before the binding of acetylcholine. Caffeine and nicotine as atropine and its derivatives have similar functions on the receptor. In all cases, high homeopathic potencies of these poisons very often remove the muscle problem of trembling.

Acetylcholine is the normal substrate of the acetylcholine receptor and of the enzyme acetylcholinesterase. In most cases remedies containing sodium, potassium and calcium (*Natrium*-, *Kalium*- and *Calcium*-) have to follow the irreversible and the reversible remedies to support the opening of the ion channels at the postsynaptic space to allow

Acetylcholine synthetase:	<i>Aceticum acidum</i> LMK, <i>Cholinum</i> LMK, <i>Calcium-phosphoricum</i> LMK, <i>Manganum acidum</i> LMK, <i>Causticum</i> LMK
Acetylcholine receptor:	<i>Bungarus</i> LMK, <i>Naja tripudians</i> LMK, <i>Natrium mur.</i> LMK, <i>Lachesis muta</i> LMK, <i>Hyoscyamus</i> LMK, <i>Stramonium</i> LMK, <i>Belladonna</i> LMK, <i>Agaricus-muscarius</i> LMK; <i>Atropinum</i> XMK, <i>Nicotinicum-acidum</i> LMK, <i>Acetylcholine</i> XMK
Acetylcholinesterase:	<i>Dendroaspis polylepis</i> LMK, <i>Alumina</i> LMK, <i>Kalium-carbonicum</i> LMK, <i>Natrium muriaticum</i> LMK, <i>Calcium-phosphoricum</i> LMK, <i>Calcium carbonicum</i> LMK
Vesicles:	<i>Botulinum</i> LMK, <i>Tetanus</i> LMK, <i>Strychninum</i> LMK, <i>Curare</i> LMK, <i>Cicuta virosa</i> LMK, <i>Aethusa</i> LMK, <i>Lecithinum</i> LMK, <i>Glycerinum</i> LMK, <i>Terebinthina oleum</i> LMK, <i>Rhus toxicodendron</i> LMK,

Table 2. For repairing paralyses at the nerve synapses the following remedies were used in the described sequence:

good conduction of the action potential. The remedies used are summarized in Table 2.

Before prescribing the remedy, the homeopath has to sort out which of the symptoms are most relevant. Is it primarily a problem with the respiratory chain enzymes or respiratory muscle paralysis? Both *Kalium cyanicum* and *Naja tripudians* can be the correct remedies. The two biochemical pathways should be differentiated. First there is the respiratory chain involving the transport of electrons and the reduction of oxygen, and secondly, there is the nerve-muscle system involving muscular activity and the transfer of the action potential.

In summary, in correctly assessing the symptoms of the patient, and with a thorough knowledge of the biochemical pathways and how they are inhibited, the therapist is able to determine which of all the disturbed pathways are involved in the illness and the correct remedies to be administered.

Very often a high potency of *Naja tripudians* LMK is needed if a patient cannot breathe sufficiently because of asthma or in association with angina pectoris. A high potency of cobra toxin, *Naja tripudians* LMK, can reverse the reaction and often heals these symptoms of imbalanced sympathetic activity at once. Sometimes a high potency of *Bungarus multicinctus* LMK (no longer available) can have a better effect if given before *Naja tripudians* LMK. As a consequence, the acetylcholine receptor is normalized. Usually, *Kalium carbonicum* LMK, *Natrium muriaticum* LMK and *Calcium phosphoricum* LMK are given thereafter to open the ion-channels. Sometimes, in order to regenerate the acetylcholine receptors, *Coffea*, *Nicotinicum acidum*, and the remedies of the solanaceae family such as *Solanum nigrum*, *Hyoscyamus*, *Stramonium*, *Belladonna* and *Atropinum* are suitable. These are typically followed by *Phosphorus*, because atropine and its derivatives are reversible inhibitors of the acetylcholine receptor which needs to be phosphorylated by a phosphokinase before it can work.

Patient	TPO Antibodies [IU/ml]	TPO after homeopathic treatment [IU/ml]	Remedies in XMK or LMK 2 x / week	Remedies for the calcium metabolism
Normal value	0 - 35			
M. ♀	340	142,0	<i>TSH, Thyreoidinum, Thyroxine, Tri-iodothyronine, Hypophysis, Kali-i, Iod., Sel.,</i>	<i>Platinum met. Pall.met. Alum-sil. Silicea, Alum.</i>
S. ♀	1025	110,0	<i>Mang.-ac., Calcitonin, Parathormone,</i>	<i>Calc.-phosph., Calc.-fluor. Bar-c.</i>
K. ♀	3615	94,0	<i>Immunoglobuline A, Immunoglobuline G, Immunoglobuline M</i>	<i>Calc-p. Calc-f.</i>
I. ♀	4828	299,0		
W. ♀	3718	16,3		

Table 3. Patients suffering from Hashimoto's thyroiditis cured by homeopathic remedies in less than half a year.

RESULTS

SELECTED CASE HISTORIES OF THREE CHRONIC DISEASE TYPES

Chronic Disease 1)

Hashimoto's Thyroiditis

Table 3 gives an overview of five cases with the remedies used. In general all patients suffered from nearly the same symptoms described above: Anxiety, bronchitis, accelerated heart rate, nervousness, general hormone problems, muscular weakness, digestive problems, high levels of thyroid autoantibodies. In general, they got L-Thyroxine (50 -100 µg/daily) as a medicine which suppresses the function of the thyroid more and more. This also led to increasing suppression of Ca⁺⁺ -regulation. The immune system is weakened and not well regulated leading to increased autoantibody synthesis. Due to the defective Ca⁺⁺-dependant metabolism additional diseases also developed: disturbed steroid hormone syntheses, inflammation of intestinal mucosa, and muscular weakness.

Initially, L-thyroxine was slowly reduced in steps of 25µg over three weeks. The substrates of the thyroid pathways were given twice a week in XMK or LMK potencies, as *Kalium iodatum*, *Manganum aceticum*, *Thyroxine*, *Tri-iodothyroninum*, *Selenium* and *Thyreoidinum*, *TSH*, *Hypothalamus* as well as *IgA*, *IgG*, and *IgM*. These were accompanied by remedies to support Ca⁺⁺ regulation: *Calcium fluoratum*, *Calcium phosphoricum*, *Barium carbonicum*, *Alumina* and *Silicea*, and, depending on the patient's symptoms also the following: *Alumina silicate*, *Platinum* and/or *Palladium metallicum*, each in LMK potency once a week.

After three months hardly any autoantibody synthesis was found. The hormonal problems in the women stopped with this therapy because Ca⁺⁺ regulation was no longer blocked, leading to normal steroid hormone synthesis. In patients with digestion problems *Lycopodium*, *Nitricum acidum* and *Sulphur* were used depending on the patient's symptoms. If necessary, each patient received appropriate remedies for

symptoms connected with their unique personality requirements, such as *Pulsatilla*, *Phosphorus* or *Sulphur*.

After the TPO autoantibodies vanished, normal support for the thyroid was maintained with 50µg potassium iodide twice weekly together with *Kalium iodatum* D 30, *Iodum* D 30, and *Calcium phosphoricum* D 200 or *Calcium iodatum* D 200. Additional medication was applied, depending on the personal characteristics of the patient. For example the *Phosphorus* type received *Calcium phosphoricum*, the *Sulphur* type received *Calcium iodatum*. These “thyroid remedies” support the incorporation of the actual potassium iodide molecules into the metabolism of the thyroid. This regimen was kept up for half a year, thereafter only 50µg potassium iodide twice a week was needed for maintenance. All thyroid symptoms had disappeared on the above protocol.

Chronic Disease 2) Chronic cough

In a homeopathic remedy for the symptom dry cough, the following primary remedies are recommended: *Ferrum metallicum*, *Cuprum metallicum*, *Zinkum metallicum*, *Kalium cyanicum*, *Hydrocyanicum acidum* or *Naja tripudians* and *Natrium muriaticum*.

In my clinical practice, patients with a chronic cough caused by defects in the respiratory chain were treated according to the remedies listed in Table 4. These patients presented primarily asthma and bronchitis and simultaneously the lab-values of some patients showed a lack of Fe⁺⁺ and low haemoglobin-values shown in

Table 5. Later we describe other patients with a chronic cough due to paralysis of chest muscles probably caused by vaccinations of Tetanus and Diphtheria destroying the nerve membrane substance: protein content and vesicles containing acetylcholine. Mostly, these patients also suffered from hay fever. They had been treated with the remedies shown in Table 6. It is important to differentiate the underlying biochemical causes to find the proper remedy picture.

In general the remedies had been adjoined to Syphilitic, to Sycotic and to Psoric remedies. From the homeopathic point of view the diseased state of a chronically ill patient is mostly a Syphilitic one, therefore Syphilitic remedies are used in the repertorization. During healing the states of illness go backwards accompanied by the symptoms of each disease which the patient developed until his chronic state now. The remedies were administered in that sequence: from Syphilitic to Psoric remedies, one after another after assurance by feeling the remedies in case of resonance. In this case the suitable remedy was given according to the “Law of Similars” in each minute. Sometimes, the symptoms of the next remedy had been developed after a minute. Finally, in a short time the Psoric state was attained. The patient felt healthy. But the remedies had been repeated again when the symptoms came back. That could be the next day and again the next day . . . ; there after the patient felt better e.g. a whole week, then some symptoms came back which had been ordered to specific remedies, mostly Sycotic

Patients	Psoric remedies	Sycotic remedies	Syphilitic remedies	
	Substrate in XMK or LMK	Reversible inhibitor in LMK	Irreversible In LMK:	inhibitor
1) patient L., 5 years old, ♀	<i>CalciumPhos phoricum</i>	<i>Natrium chloratum,</i>	<i>Coenzyme Q Ferrum</i>	<i>Zinkum metallicum</i>
2)patient B., 65 years old, ♀	<i>Hepar sulphuris Aconitum nap. Phosphorus</i>	<i>Kalium carbonicum</i>	<i>metallicum</i>	<i>Carbo vegetabilis</i>
3)Patient C.♂ 70 years old			<i>Cuprum metallicum</i>	<i>Stannum met.</i>
4)patient K.♀, 18 years old			<i>Kalium cyanicum</i>	<i>Carbonicum</i>
5) patient S.♂, 7 years old			<i>Hydrocyanicum acidum</i>	<i>oxygenatum</i>
6) patient R.♂, 10 years old			<i>Hydrogenium</i>	<i>Silicea, Mercurius sol.</i>

Table 4. Cough caused by a defect in the respiratory chain, diagnosis of asthma and chronic bronchitis. (Homeopathic treatment addresses first the Syphilitic, then the Sycotic and finally the Psoric remedies, from right to left in the table.)

or Psoric remedies were repeated as necessary.

Patients with asthma and chronic bronchitis were treated with the remedies described in Table 4, because their lab-values of Fe⁺⁺ and of haemoglobin were very low. Therefore the respiration chain is blocked and, probably by a Pertussis infection as well as by a Pertussis or Haemophilus Influenza vaccination. Very often a chronic bronchitis followed. The remedies for the repair of the immune-system were followed, for the Calcium-pathways.

These patients became healthy after treatment with the remedies shown in Table 4 and the regeneration of normal Fe⁺⁺ and of haemoglobin- values happened after a month demonstrated in Table 5.

Pertussis in these patients seems to be

endemic and develops periodically. The patients are exhausted by coughing all the time. The infection of the young boy, patient R. took place when he had been sitting beside a little child who had just received a vaccination of Pertussis and Haemophilus influenza and had been a high infectious carrier because of this inoculation. Patient L. had got a vaccination of Pertussis, although her iron and ferritin values had been low by a real infection of Pertussis and had been cured ½ a year before. Patient B. had the dry cough similar to a Pertussis and a very low Hb. You can see after treatment by the remedies mentioned above her cough diminished and the Hb became normal.

The patients could breathe after this special treatment. The cough retired. The mothers of the children reported it and I can believe them, because they have been my patients for many years.

Patients	Fe ⁺⁺ - values		Hb-values	
	before hom. treatment	after hom. treatment	before hom. treatment	after hom. treatment
patient L., 5 years old, ♀	22 µ/dl	56 µg/dl	12,0 µg/dl	
patient B., 65 years old, ♀			9,6	12,8
patient G., 61 years old, ♂ after an operation			6,6	10,5 after 3 days 14,3 after ½ year

Table 5. Patients with low iron and Hb – values

Another special case is patient G., Table 5, exhausted by a prostate operation, he did not have enough strength to rebuild the haemoglobin and the erythrocytes, because he had an extirpation of the thyroid 20 years ago. Therefore, his regulation of Ca⁺⁺ and of the protein synthesis is always irritated and only regulated by remedies. In addition he was given the remedies of the Ca⁺⁺ metabolism and the remedies to stimulate hemoglobin synthesis and erythrocyte synthesis 3 times a day in LMK-potencies. This treatment saved his life. Today, he is a senior champion of tennis in the country where he lives, taking 125 µg necessary L-Thyroxine each day and the remedies of the Calcium-regulation each second day, together with 250 mg Calcium and 250 IU of Vitamin D₃.

The patients shown in Table 6 had normal Fe⁺⁺ and haemoglobin-values. But their dry asthmatic cough was terrible, Cortisone sprays helped. They had a feeling as if someone was sitting on their chests, a feeling of suffocating. Their hay fever in spring and summer appeared with thick red eyes and lids, with acute rhinitis. The repertorization of their symptoms resulted

in *Naja trip.*, *Natrium chloratum*, *Calcium phosphoricum* and *Calcarea*. These patients are all children. In the anamnesis it became clear that this cough and the hay fever developed two to three months after vaccination with Tetanus and Diphtheria. It is considered that the nerve-membrane was destroyed by these vaccinations, and the vesicles storing acetylcholine at the pre-synapses cannot be rebuilt again. The remedies described in Table 6 had been given 3 times a week. After two months the asthmatic cough and the hay fever became better over time, by continued application of the remedies in Table 6.

Chronic Disease 3) Paralysis

Different sorts of paralyzes exist and they are often elicited by unknown causes. The movement of legs, arms, or the whole body can be inhibited. Movement is regulated by the neurotransmitter acetylcholine with a complicated mechanism at the nerve synapses, as previously described above. Therefore it is desired to regenerate the function of the nerve synapses by the corresponding available remedies as mentioned already in the asthma of the chest muscles at Table 6. But paralyzes can be in

Patients	Psoric remedies	Sycotic remedies	Syphilitic remedies
	Substrate in XMK or LMK	Reversible inhibitor in LMK	Irreversible inhibitor in LMK:
	<i>Acetylcholinum mur.</i>	<i>Bell, Stram, Hyosc. Sol-nigr.</i>	<i>Naja trip. (venom of cobra)</i>
<u>Boy 14 years old</u> <u>Girl 6 years old</u> <u>Girl 12 years old</u> <u>Boy 10 years old, his sister a</u> <u>Girl 8 years old</u>	<i>Aceticum acid, Cholinum, Calcarea, Calc-phos, Mang-ac. Lecithinum, Glycerinum</i>	<i>Rhus-tox, Nat-mur, K.-carb. Alumina, Causticum</i>	<i>Dendroaspis polylepsis (venom of black mamba)</i>

Table 6: Cough caused by paralysis of the chest muscles with the diagnosis asthma mostly accompanied by hay fever. Homeopathic treatment addresses first the Syphilitic, then the Sycotic and lastly the Psoric remedies, from right to left in the table.

all parts of the body and this remedy system can be used in all kinds of paralysis in general. In the cases shown in Table 7 other remedies are needed and added because of the special symptoms of each patient.

The mechanism of cobrotoxin is generally known: the acetylcholine receptor, a nicotinic neuron, is blocked irreversibly by cobrotoxin as well as by bungarotoxin. Therefore, the action potential cannot be transferred to the $\text{Na}^+ / \text{K}^+ - \text{ATPase}$. The Na^+ -, K^+ - and Ca^{++} - channels cannot open. Paralysis occurs.

Sometimes the trembling of hands and of the body needs *Agaricus muscarius* LMK for the muscarinic neurons, and also *Mygale lasiodora* LMK and *Iodium* LMK.

Patients:

- A young woman, 18 years old, diagnosis: multiple sclerosis
- A 45 year old man, whose muscles were trembling and cramping intermittently
- A 58 year old woman who was not able to

sit, because of her paralysis.

The remedies administered to them are described in Table 2 and Table 7.

These patients were treated according to the Law of Similars and required a number of remedies to be administered concurrently, according to our model. Usually the healing processes took between three months and two years. An individual session with each patient lasted for two hours or more. The preceding two tables have described different causes of paralysis: Table 6 with some paralysis involving asthma, but not from a respiratory chain cause as described earlier; while Table 7 describes general paralysis, due to the blockage in synaptic transmission of action potentials described earlier in the paper. In this section there is no laboratory data available, however the case histories following these tables describe the healing process in greater detail.

Case History 1:

An 18 year-old woman attending high

Patients	Psoric remedies	Sycotic remedies	Syphilitic remedies
	Substrate in XMK or LMK	Reversible inhibitor in LMK	Irreversible inhibitor in LMK:
Girl 18 years old Diagnosis : multiple sclerosis	<i>Acetylcholinum mur.</i>	<i>Bell, Stram, Hy osc. Sol-nigr.</i>	<i>Naja trip. Dendroaspis polylepis, Mygale las., Jodium</i>
Man 45 years old Diagnosis: Parkinson	<i>Acetyl-CoA + Cholin</i>	<i>Rhus-tox, Nat-mur, K.-carb.</i>	<i>Tetanus, Diphtherinum, Cicuta, Conium, Picric.-ac. EPA</i>
Woman 58 Years old Diagnosis: Paralysis with terrible pain	<i>Aceticum acid, Cholinum, Calcareo, Calc-phos, Causticum, Mang-ac. Lecithinum, Glycerinum</i>	<i>Alumina</i>	<i>Platinum met. Silicea, Zinkum met.</i>

Table 7. General Paralysis probably caused by tetanus/diphtheria vaccination or by too many pharmaceuticals. Homeopathic treatment addresses first the Syphilitic, then the Sycotic and at lastly the Psoric remedies, from right to left in the table.

school, who liked jazz dancing, was diagnosed with MS (multiple sclerosis) is listed in Table 7. Auto-antibodies to oligodendrocytes were found in the cerebral spinal fluid. In an MRI small plaque depositions were detected in the brain. She was no longer able to walk, neither on tip-toe nor on heels, and she suffered from generalized myalgia. She had lost all color vision two years before. When she was brought to me by her mother because she was unable to lift either foot, the right side of her body was paralyzed, she could not write and had hardly any feeling in her back. Besides her ataxic symptoms, she also suffered from panic attacks and talked very fast. In the hospital she had received 500 mg of cortisone and many doses of Diclofenac.

It was hypothesized that tetanus toxin and diphtheria toxin had destroyed the vesicles and membranes in her myelin sheaths. Every

biochemical textbook documents that tetanus toxin and diphtheria toxin can have these effects.²³ Because of this membrane destruction the neurotransmitter acetylcholine could hardly be synthesized and thus could not be stored in the vesicles. Therefore, a cascade of symptoms was developing because the action potential could not be transferred properly.

From a homeopathic point of view this beautiful woman is a *Phosphorus* type with a very sensitive nervous system belonging to the homeopathic tubercular type (Psoric-Syphilitic disposition). I gave her numerous remedies in LMK potencies which could repair the myelin sheaths including *Tetanus*, *Botulinum*, *Heloderma*, *Manganum aceticum*, *Kalium bichromicum* (to deal with a pressure point in the neck), *Cicuta virosa*, *Solanum nigrum*, *Lachesis*, *Agaricus muscarius*, *Acetylcholine*, *Secale cornutum*, *Tarantula*,

Picricum acidum, Mercurius solubilis, Silicea, Rhus toxicodendron, Calcium phosphoricum, Hepar sulphuris, Causticum and Tuberculinum. After 90 minutes she was able to walk on her own feet. She needed to take these remedies daily. After 19 days, the symptoms had changed. Lifting the heels remained difficult, she strutted around like a cock. *Heloderma, Manganum aceticum* were then the appropriate remedies. Quick walking was impossible, the woman's back was aching, but her feet had become elastic again.

Since she had a tuberculinic constitution with an inborn hypofunctioning of the thyroid gland, she was given all the remedies shown in Table 1, to repair both her Ca⁺⁺ regulation and the syntheses of her thyroid hormones. When she suddenly developed pain in her legs, the remedies given up to that time no longer responded. To assist healing the neurons, she now had to get *Cuprum metallicum* LMK, *Tyrosinum* XMK, *Dopa* XMK, *Dopamine* XMK, *Noradrenalin* XMK and *Adrenalin* XMK, almost every other day. Three weeks later, she could walk as if nothing had happened. Sometimes she had some pain in the arms and other minor symptoms. At each occasion she received adequate remedies. In the course of one year, sometimes the old symptoms recurred, but vanished as soon as the appropriate remedies identified above were administered. The last remedies she needed were *Lecithinum, Cholinum, Phosphorus, EPA, Linoleicum acidum* in LMK in order to repair the myelin sheaths. Today, this patient is a happy, healthy woman, continuing her studies and dancing jazz. Almost

all remedies that were used in the above case were successfully applied in cases of ADHD-syndrome, as described in two previous publications.^{36,37}

Case History 2:

Patient S., a 45-year-old man, who was happily married with children, a good job, in essence a happy man. He had no psychological problems. However, he always felt tired, lacked concentration, was restless, trembling, with restless sleep, and generally felt irritable. His GGT values were increased, a sign that there was some inflammation of the liver, involving his protein pathways. After eating a meal with meat, he got back aches and muscular cramps. However, his main symptoms were: no power in the arms like a paralysis, night sweats, and a pressure in the heart region. At a medical clinic he received muscle tranquilizers for his aches; and for 10 years he had taken L-Thyroxine 50µg daily for his weak thyroid. His past medical history included torn ligaments, slipped discs, Dupuytren's disease in the right hand, several operations, and difficulties with his teeth. This indicates that the Ca⁺⁺ pathway of the thyroid was not well regulated since his youth. This weakness of the thyroid was inherited, his grandmother had tuberculosis. Taking into account his heritage, it is likely that his thyroid became blocked more and more by the L-Thyroxine 50µg daily. The protein pathway also had become abnormal because the thyroid hormones thyroxine and triiodothyronine induce protein synthesis in the liver. By giving the synthetic L-Thyroxine, an adequate protein synthesis pattern could not be maintained,

resulting over time in chronic inflammation. It should be emphasized, this man had no pre-existing psychological problems which needed to be treated.

The *Iodium* symptom picture has some similarity with the symptom picture of *Mygale lasiodora*. This patient received *Mygale* LMK, *Iodium* LMK, *Diazepam* LMK, *Glutaminum* XMK and *Zincum metallicum* LMK for his trembling for 14 days because the tranquilizer that he had used had probably poisoned the glutamergic neurons. Furthermore, his liver and brain were not able to keep glutamate and glutamine in balance (observed in the imbalanced GGT value). To restore his Ca⁺⁺ pathway he received LMK potencies of *Palladium metallicum*, *Silicea*, *Barium iodatum*, *Lithium carbonicum*, *Phosphorus*, *Calcium phosphoricum*, *Magnesium carbonicum*. Every other day he had to hold each remedy and consume them if he felt a reaction. In order to re-establish healthy thyroid function, he received LMK-potencies of *Manganum aceticum*, *Kalium iodatum*, *Thyreoidinum*, *Hypophysis*, *Hypothalamus*, twice a week. These remedies were given to regulate the synthesis of liver proteins and hormones. He had an excess of iodine in his body from thyroxine and its metabolites which had poisoned the membranes of his nerves. The balance between iodine and iron, which are dependent on each other, was disturbed. In this case, iron was reduced. He was given *Cortisonum*, *Ferritin* and *Ferrum metallicum* in high XMK or LMK potencies, because cortisone is known to induce the synthesis of aminotransferases (GOT, GGT, etc.), *Suprarenalis*,

Androstenedione and *Epididymus* for his epididymitis, twice a week. During this treatment he was able to reduce his tranquilizer and the L-Thyroxine intake to zero.

Finally, he also suffered from pharyngeal irritation. When needed, he also took *Causticum* and *Phosphorus* which are his psychological remedies. After 3 months he felt happy without any aches and the laboratory values normalized. He now supports his thyroid with 50 µg potassium iodide, *Kalium iodatum* D 30, *Iodium* D 30 and *Calcium phosphoricum* D 30, twice a week. He had only a problem with an inherited metabolic pathway of the thyroid which can always be balanced by its substrates in high homeopathic potencies to enhance their uptake in the material form.

Case History 3:

A 57-year-old woman was brought to me over 300 km, lying in the car, because for 14 weeks she had not been able to sit for even 5 minutes. She walked on crutches. Upon arrival, she laid down at once with no feeling in her feet. Aggravation included adduction of her legs, legs hanging down, sitting with back support, and touching warm water. Only lying on a bed gave her relief. In the past she had many examinations and a lot of analgesic medications, all without any lasting relief. No real psychological problem could be found, her husband looked after her in a kind manner, her children were grown up and had their own families. What did she suffer from? She had jaundice and scarlet fever as a child, operations on her uterus and her veins in the past, osteoporosis, allergies, and an

inherited tubercular miasm. She also complained of pain in her calves.

Immediately, the following remedies were given in high LMK-potencies several times: for the numbness in the feet: *Palladium metallicum*, *Platinum metallicum*, *Plumbum metallicum*, *Alumina*, *Silicea*, *Rhus toxicodendron*, *Ferrum metallicum*, *Natrium muriaticum*, *Natrium carbonicum*, *Causticum*, *Kalium sulphuricum*, *Sulphur*, *Tuberculinum*. The symptoms of these remedies developed one after another and I gave the appropriate remedy. After this her energy endurance appeared to normalize. During the treatment she was able to sit for 40 minutes, then she had to lie down. I continued with more remedies applied each minute according to her symptoms. After that she was able to stand up and to sit for 90 minutes. At the end of the treatment, as she was going downstairs, I called to her: "Don't forget your crutches!" Naturally, she had to take the remedies again, initially every day, then every other day, later once a week, and finally once every 2 weeks. She had contemplated retirement but her doctor told her that she is healthy and that she can work again.

DISCUSSION: BIOCHEMICAL HOMEOPATHY

The case histories outlined in this paper show that homeopathic treatment of patients with high potencies of substrates and inhibitors of biochemical pathological pathways is capable of curing serious

chronic diseases under the condition that many remedies are applied frequently. The appropriate remedies were given in high XMK or LMK potencies, first the irreversible, followed by the reversible inhibitors, and finally followed by the substrates of the biochemical reaction chains, which are dependent on each other. Chronic diseases involving different biochemical pathways were all able to be healed in the manner described above.

Hashimoto's thyroiditis was healed by utilizing the substrates of the thyroid enzymes in XMK or LMK potencies. The TPO auto-antibodies disappeared after three to four months of normalized laboratory values. The suppression of thyroid enzymes ceased. The uptake of potassium iodide by the thyroid and the syntheses of calcitonin and parathormone became normalized. The protein syntheses in cells, induced by thyroid hormones and the calcium metabolism, led to normalization of immunoglobulin syntheses.

Chronic cough, with the resulting gasping for oxygen, can be caused by two different biochemical pathways: One, a defect in the respiratory chain, or two, a problem with paralysis of the respiratory muscles. In the first case a lack of iron is often detected with low hemoglobin values, or a lack of iron is assumed to be present in the respiratory chain involving the porphyrin rings, containing iron or copper, in the cytochrome systems. This often occurs in cases during whooping cough or anemia. This occurs frequently after vaccination with *Bordetella pertussis* bacteria, *Haemophilus influenza* or

Chlamydiae which need iron for their growth in human bodies.³³ The healing remedies are the lethal inhibitors of iron in LMK potency such as *Kalium cyanicum* or *Hydrocyanicum acidum*. These inhibitors must be followed by *Ferrum metallicum*, *Cuprum metallicum* and *Zinkum metallicum* in LMK potencies, as substrates of hemoglobin and the cytochrome systems of the respiration chain; as well as *Pertussinum* LMK or *Haemophilus influenza* LMK in the case of vaccination. After using all these remedies in my patients with anemia or dry cough, all became healthy with normal iron or hemoglobin values. The advantages of this kind of therapy are rapid relief without a long repertorization, one only obeys the rules of chemistry and biochemistry. The psychological problem is the fear of death during bad coughing episodes. However, nearly all lethal poisons show in their symptom picture the fear of death. Homeopaths often have difficulties to decide between different psychological symptoms of the fear of death, leading to difficulty in choosing the appropriate remedy.

As mentioned, the second principle cause of a dry cough has its origin in the nerve muscle interface, leading to a paralysis of the muscles in the breast, obstructive bronchitis, or asthma. Healing the paralyzes of the muscles is more complicated, principally involving the biochemistry of the motor branch of the nervous system, specifically the acetylcholinergic synapse. The young woman who had been diagnosed with MS had been poisoned by the vaccination for tetanus and diphtheria, which destroyed the vesicles of the motor end plate. This girl, a *Phosphorus* type, inherited

the tubercular miasm, involving a slight defect in the fatty acid metabolism, as well as imbalances in the thyroid metabolism which includes protein synthesis and the regulation of calcium pathways. Therefore she needed a number of remedies to repair the entire motor end plate. This includes the vesicles, the acetylcholine synthetase enzyme, the acetylcholine receptor, the acetylcholinesterase enzyme and the $K^+/Na^+/Ca^{++}$ -ion channels.³⁴ Initially, the normally lethal, irreversible inhibitors were given in high potencies for each biochemical problem as *Tetanus* LMK, *Dendroaspis polylepsis* LMK, or *Naja trip* LMK. These were followed by the reversible inhibitors as *Belladonna* LMK, and *Alumina* LMK. Finally, the normal substrates of the enzymes and receptors were given in XMK or LMK potencies as *Acetylcholine* XMK, *Aceticum acidum* LMK, *Cholinum* LMK, *Lecithinum* LMK. This regimen was able to heal the terrible symptoms of paralysis. It may be assumed that the ADHD syndrome, which is often observed in children, is caused by vaccinations against tetanus and diphtheria. This can be cured by the remedies used for the girl described earlier.^{36,37}

The two other cases described in this article suffered from paralyzes caused by drug poisoning. The man was poisoned by ingesting too much L-Thyroxine over years, accompanied by a fear of being paralyzed. For this psychological symptom, it is not possible and not necessary to find a repertorized remedy. Through his L-Thyroxine-poisoning, nearly all known symptoms of thyroid hypofunction developed. To regain healthy functioning of the thyroid, only

biochemical substrates of the thyroid metabolism in high potencies were necessary. In the case of the woman who took too many medications after an operation, the acetylcholine synapse and the calcium pathways including the Ca^{++} -ion channels at the synapse were probably involved in her paralyzes. Many metals are poisons of the calcium pathway. High potencies of *Aurum metallicum*, *Platina metallicum*, *Palladium metallicum*, *Plumbum metallicum*, *Silicea*, *Alumina*, *Barium carbonicum* and *Calcium fluoricum*, *Calcium phosphoricum* regenerate the calcium metabolism in the body. With these remedies it is also possible to help osteoporosis as well as following chemotherapy with platinum. It is always imperative to assist in achieving healthy thyroid functioning.

If only one or two remedies had been given as is the traditional practice in classical homeopathic practice, it is unlikely that these chronic patients would have been able to heal fully. All my patients with difficult chronic diseases were successfully treated by exploring the cause, e.g. vaccinations or the disturbance of the biochemical pathways pertaining to their illness. After being healed, patients only needed small quantities of remedies if they became ill again. It is at this stage that Hahnemann's prescription of using only one or two remedies works well. It should be noted, that Hahnemann used more than two remedies to treat his patients in Paris when he was older.^{38,39} He also said in his "Organon" that a therapist was free to do what he liked, but he had to know exactly what he did and it had to be supported by research! The old homeopathic rule is still

valid according to which homeopathic healing means going back through all the steps of an illness to arrive at its prime cause.

This paper describes a series of patients who became healthy after being cured by this biochemical homeopathic approach. Experiments involving substrates and inhibitors of biochemical pathways administered in homeopathic potencies were shown by Harisch, Dittmann, and Witt in animal experiments.²⁴⁻²⁷ In those experiments, the investigated enzymes had normal, healthy activities. The addition of the appropriate homeopathic remedy created inhibition and/or stimulation at different enzymes. It appears like a drug proving in homeopathy. The important paper by Malarczyk describes stimulation and kinetic changes in the activity of purified horseradish peroxidase induced by highly-succussed phenol in 75% ethanol (7.5% used in the experiment) as an effector of this enzyme.⁴⁰ Phenol succussed in water showed almost no effect. The paper demonstrated a highly reproducible set of trials involving homeopathic experiments. The enzymatic reaction probably lost its proper function through the high ethanol-concentration of 7.5% in the enzymatic trial. The disturbed enzyme reaction was cured by using the high potency effector of phenol succussed in alcohol of high percentage. Additional experiments have to be accomplished to demonstrate this type of reproducibility.

COHERENT ELECTROMAGNETIC FIELDS

The Law of Similars states that a patient needs that remedy which would cause symptoms in a volunteer similar to those the

patient is exhibiting. The symptoms in a patient are compared with the symptoms of a symptom picture; if they are similar, then this remedy is the best one for the patient.

It was hypothesized that a pattern of photons or frequencies is simultaneously emitted from an organism or from a person and that this pattern changes when an illness develops. This was observed by Pokorny and Musumeci in normal cells and in human cancer cells.^{15,16} The body of a living organism consists of coherent electromagnetic fields which become out of balance as an illness develops.¹⁵ These photons, being coherent and holistic, are separated from their carrier substance – alcohol or sucrose, by the electromagnetic spectrum of the patient under the condition that his electromagnetic spectrum must match that of the photons.¹ In this way an interaction of the photons of the remedies is performed with his coherent field through interference or resonance. In this way remedies can assist in recreating a balanced, coherent state within the electromagnetic field; then the entropy increases. Prigogine described dissipative structures involving photons, operating far away from thermal equilibrium.⁴¹ Dissipative structures can also be formed through Bose-Einstein condensation, absorbing photons with the same frequencies.^{42,43}

The photons contained in the remedies with their different frequency spectra react with those of the coherent field of the sick organism according to the resonance principle, thereby creating an interference.^{7,8} In this way it either leads to a 180°

phase shift which reduces the energy of the coherent field, or a 0° (equivalent to 360°) phase shift which amplifies the field. This is the Law of Similars, expressed in terms of resonance physics.

Further research needs to be performed to ascertain the frequency patterns emitted by healthy or ill persons as well as to more fully describe the frequency patterns within homeopathic remedies. It was Popp's theory that homeopathic function operates through the physical resonance principle.^{7,8}

HOW TO FIND THE APPROPRIATE REMEDY

To find a remedy for a patient with an acute or chronic disease, the frequencies of the remedy must match the corresponding frequencies in the body of the patient. The patient keeps a glass with the suitable remedy in his or her hand. When the patient feels a reaction such as a sense of warmth, tingling or something else, this is indicative of a state of resonance and suggests the appropriate remedy. The administered globuli of this remedy have to be taken orally. The acute state of disease is attenuated and the symptoms of an earlier illness with its unique symptom picture and associated frequencies will then be developed. It symbolizes a new energetic state within the organism. From the medical history and chronology of the patient's diseases, it can be concluded which remedies are now appropriate. This procedure is continued, until finally arriving at the original disease state. When this point is reached, the patient gets the last appropriate remedy for this initial day. The

patient has to test the entire sequence of remedies again the next day or the day after and then take the ones to which they are sensitive. The patient ingests and chews these appropriate medicated sugar globuli. The photons contained within the remedy are separated immediately from the globuli under the influence of the electromagnetic field of the patient.

The photons of the homeopathic potencies have been found to contain several frequencies in the MHz region in our initial experiments. It is hypothesized that these influence and regulate the coherent field of the patient with a chronic disease. They assist in regulating the activity of enzymes and general biological systems ultimately leading to a normalized energetic state.

A further question arises: What is the significance of the coherent Biophotons which are emitted by living organisms characterized by the B_1 -coefficient in the Bajpai equation, compared to photons in the remedies characterized by the B_2 coefficient, indicative of quantum holistic and coherent behaviour?^{1,2,4,6,11}

HEALTHY STATE

The proposed model makes the assumption that in the healthy state of an organism, the substrate enzyme complexes are induced to make quantum jumps into higher energy levels by Biophotons with different frequency spectra. The Planck equation describes the energy of a photon $E=h \cdot \nu$ (ν = frequency). The frequencies of the Biophotons emitted from a living organism are not yet sufficiently well measured. Initial

experiments to measure these frequencies were performed in yeast cells by Pokorny, Cifra, and Jelinek.⁴⁴⁻⁴⁶ Popp assumes that in order to maintain a healthy state, an organism needs photons.⁸ These are potentially stored in DNA (called exciplexes) or taken up from the environment. These photons are emitted by living organisms and show coherent behavior as expressed in the B_1 coefficient of Bajpai's equation.^{4,6} It is assumed that each enzyme pathway needs its distinct photons with a variety of characteristic frequencies. The hypothesis is made that each pathway only works in higher energy states when stimulated by different, yet suitable photons. The future task is to prove this hypothesis.

The measurements of Cyril Smith confirm that electromagnetic and magnetic fields influence the enzyme activity in biological systems.^{19,20} After autoclaving, lysozyme lost its magnetic field and its enzyme activity.²⁰ This experiment strongly suggests that mother tinctures of nosodes and other venoms must not be autoclaved at a temperature of 130°C or more. In the European Union recent legislation required autoclaving of the mother tinctures of nosodes which would lead to a loss of their effectiveness as homeopathic remedies.

The photons in high homeopathic potencies can only be detected through magnetic resonance.^{1,2,3} This suggests that the magnetic vector potential of these photons might be important not only for healing, but also for life. This opinion is supported by the experiments of Liboff and Lisi.^{21,23} Liboff treated enzymes with cyclotron

magnetic resonance, thereby changing their enzyme activity.²¹ Lisi achieved differentiation of tissue by exposing it to radiation of 7.0 Hz and 100 μ T which corresponds to the Ca⁺⁺ -ion frequency.²³ All differentiation states which normally require Ca⁺⁺ -ions were performed without any substantial Ca⁺⁺ -ions. This strongly supports the assumption that biochemical pathways are regulated by frequencies associated with matter and its higher energetic states. The healing process can thus be understood as a change in symptoms and corresponding frequencies until a healthy state is achieved.

DISEASE

The model outlined in this paper postulates that enzyme pathway chains, which are dependent on each other, are blocked one after another when a chronic disease develops. The same thing happens during a drug proving. The disease symptoms worsen and become more chronic. A symptom mixture of the disturbed pathways develops together with overlapping frequencies of all the blocked enzyme pathways. The psychological state of the patient alters simultaneously. The time spent with drug proving is important because a longer period of time involves more enzyme chains, a shorter period perhaps only one or two. The same applies to illness. A short time spent for healing requires fewer remedies, a longer period asks for a larger number.

It can be assumed that during a disease condition, a lot of foreign energy states with disturbed frequencies prevail in an organism. As a result, the normal energy state of the enzymes has vanished. Biophotons with B₁

-coefficients are no longer sufficient to maintain a healthy energetic state within the organism. These foreign energy states may contain a spectrum with several energy terms, each having its own frequency. They may be imagined as an energy stairway, leading either upstairs or downstairs, through various quantum jumps. This is analogous to Popp's theory of too many excited states or too many ground states existing in diseases.^{7,8} Therefore, step by step, remedy by remedy, one biochemical pathway after another, like ascending or descending a set of stairs, adequate homeopathic potencies have to be administered to reach the normal, healthy state again. Completely different kinds of photons are required for healing: photons from high potencies with suitable frequencies and with coherent properties, i. e., with B₂ -coefficients, that can restore and repair the enzyme pathways, until the normal energy state is achieved.^{1,2}

CHRONIC DISEASES

Chronic diseases and drug ingestion over long time periods have the same result: the biochemical pathways, being dependent on each other, are blocked, one after the other. It is a similar situation in either chronic diseases or in chronic poisoning by drugs. Imbalanced frequencies, with associated physical and psychological symptoms, develop from the overlapping imbalanced pathways. Therefore, it is difficult to determine only one healing remedy. Laboratory values help to find the imbalanced pathways.

A living organism consists of a coherent

electromagnetic field. Therefore, the energy of the mind and the body can be seen as one unit that needs to maintain balance. Because of this unity, it is neither important nor always possible to look for a special psychological symptom, as homeopathic therapists generally do. Looking for unusual symptoms is generally justified, however, it does not matter if its nature is physiological or psychological. Especially, in cases of chronic diseases it is sometimes not possible to find one clear psychological symptom. In this case, one can begin with an important physiological symptom because it also describes the state of mind of a person. If the body is feeling cold, the mind is feeling cold, too, which means that the body demands warming up and the mind demands love, as the symptom picture of *Silicea* shows.

The laboratory values sometimes give an idea which biochemical pathway is disturbed. Therefore this pathway can be supported initially by utilizing its inhibitors and substrates in high potencies. In chronic diseases, healing takes place step by step, one remedy is needed after another, in order to heal the pathways and chains that depend on each other. In cases of deep chronic diseases, the irreversible inhibitors of the afflicted pathways have to be taken in high potencies first, followed by their reversible inhibitors, and finally their natural substrates in high potencies as shown in the paralysis cases.

In a chronic disease in which the irreversible and reversible inhibitors of the ill pathways are known, it is possible to apply them in

high potencies without any repertorization. With regard to the key miasms of Psora, Sycosis and Syphilis, it is obvious that provings by the substrates of the biochemical pathways, e.g. *Calcarea*, lead to the symptoms of Psoral diseases first; to be followed, with continued provings, the development of suddenly weaker symptoms until the completely inhibited symptom picture is obtained with Sycotic or mostly Syphilitic symptoms. The symptom picture of *Calcarea* shows reversible and irreversible symptoms of *Barium carbonicum*, *Silicea* or *Plumbum metallicum*, the inhibitors of the calcium pathways. Ortega describes that after a thoroughly performed drug proving each symptom picture contains symptoms of all three miasms.⁴⁷ The Syphilitic symptoms of *Calcarea* can also be obtained by provings using *Barium carbonicum*, *Silicea* or *Plumbum metallicum*.

From this perspective, it can be said that healing by means of high potencies of the normal substrates of biochemical pathways is similar to Psora, healing by means of reversible substrates is similar to Sycosis, and healing by means of irreversible inhibitors is similar to Syphilis. Whether a patient behaves according to one of the patterns of Psora, Sycosis or Syphilis depends on the distribution of the inherited biochemical pathways in his DNA. In our day and age, many poisons, including especially the electromagnetic pollution of the environment, and allopathic medicines influence the genetic material. Hahnemann foresaw that human beings would become ill more and more and thus increasingly approach the Syphilitic states collectively.

According to the data presented in this paper, homeopathy can be used to cure chronic diseases according to physical and biochemical mechanisms of action.

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