



**AMS GmbH –
Advanced Medical Systems / Institute of Biophysics**

Bioinformative Medicine
- developed by Dr. rer. nat. Wolfgang Ludwig®

Contents

Introduction

I. Overview:

Bioinformative Medicine – Basic Biophysical Principles

**II. Bioinformative Medicine – the Medicine of the Future!
Ten Arguments**

**III. The New C-Generation:
Bioinformative Medicine Analog and Digital**

Introduction

Bioinformative Medicine occupies an excellent position within the context of modern natural remedies and holistic diagnosis and therapy.

In three separate parts we provide a central overview of the basic biophysical principles (Part I). In 10 points or arguments we emphasize that Bioinformative Medicine is the medicine of the future (Part II). Part III provides central information on the latest developments in the field of analog and digital (!) storage and transfer of bioinformation – the C-Generation.

**ADVANCED
MEDICAL
SYSTEMS**

**AMS GmbH
HAUPTSTR. 26
D-97990 WEIKERSHEIM**

**Phone: ++49-(0)7934/993489-0
FAX: ++49-(0)7934/993489-44
E-MAIL: info@ams-ag.de
www.ams-ag.de
www.magnetotherapy.de**

Copyright by AMS GmbH 2010

I. Overview:

Bioinformative Medicine – Basic Biophysical Principles

Bioinformative Medicine: what is it?

Bioinformative Medicine is a modern form of natural remedy. It combines and optimizes different procedures of regulation medicine and bioresonance in order to improve the regulation capability of the organism with the aid of so-called "bioinformation".

Permanently disrupted regulation is often the cause of many "systemic illnesses". Bioinformative Medicine addresses these regulation disorders and blockages in the form of prophylaxis, therapy and regeneration. We can assert with conviction:

Bioinformative Medicine: the medicine of the future!

Because stress, intolerances and environmental toxins of all kinds have in the last few decades had an increasingly negative impact on our health and quality of life. Every day our organism is being subjected more and more to contaminants from air, soil and water. Personal contaminants in the psychosocial field such as stress, worry, grief and inner emptiness can easily be added to this list, as can an unbalanced, incorrect diet or the constant taking of painkillers and sleeping pills... "Systemic illnesses" can be the consequences of such "contaminants".

Bioinformative Medicine: holism in diagnosis and therapy!

Bioinformative Medicine constantly views and evaluates illnesses as disorders of a higher-level regulation system. Systemic illnesses are connected to growing environmental pollution and are often the result of disrupted self-regulation. Fortunately the organism has an extremely high resilience and ability to adapt. Nevertheless, the organism – depending on the individual constitution – is subject to clear limits in its capacity to self-regulate. So-called "interference fields" can arise, resulting in acute and chronic illnesses such as:

...allergies, psychosomatic disorders, depression, insomnia, migraines, neuralgia, rheumatic and arthritic pain, fungal infections, stomach and bowel disorders, immune-system and metabolic disorders...

Bioinformative Medicine: the natural approach to prevention and healing!

Who are AMS GmbH – Advanced Medical Systems?



AMS GmbH – Advanced Medical Systems – is a German company with its own Institute of Biophysics. The company is based in Tauberbischofsheim, a small town (close to the major international airport of Frankfurt / Main) in the southern part of Germany. We have decades of experience in the research, development and production of medical-technical equipment.



Figure: Dr. rer. nat. Frank Beck, Managing Director of AMS GmbH

Dr. Beck, Managing Director of AMS GmbH:

“Our scientific know-how is based on the research and development work carried out by Dr. W. Ludwig[®], an internationally renowned biophysicist. We have committed ourselves to continue Dr. Ludwig’s life’s work. AMS GmbH therefore stands for the ORIGINAL – developed by Dr. Ludwig[®], Institute of Biophysics.

Our operating areas cover the:

Research, development, manufacture and worldwide sale of high-quality products in the following fields:

- Pulsating magneto-therapy
- Color-light and laser therapy
- Photon therapy
- Bioresonance and regulation therapy
- Biophysical information transfer and storage:
analog and digital
- Water purification and energization

Dr. Beck:

AMS GmbH is bound by the “Made in Germany” tag!

AMS GmbH is bound by the “Made in Germany” tag: we manufacture our practical equipment in a German company which is medically-technically certified in accordance with DIN EN 9001.

Our company philosophy is characterized by the highest quality standards and requirements.



AMS GmbH – decades of experience in research, development and production!

Over 10 years ago AMS GmbH took over the company Dr. Ludwig[®] Medizintechnik and its Institute of Biophysics. It is the owner of all the industrial property and patent rights of Dr. Wolfgang Ludwig[®], who researched and developed these for series production in the course of his 30 years of work at the Institute. AMS GmbH has committed itself to continue developing Dr. Ludwig’s life’s work.

Only a few companies – such as AMS GmbH / Institute of Biophysics – have so many years of experience in Germany in the field of Medical Technology and Modern Natural Remedies affecting the development and production of complementary-medicine devices.

Bioinformative Medicine: a solid and serious scientific basis in research, development and production

Dr. W. Ludwig[®] / Institute of Biophysics - researcher in and pioneer of modern natural healing in Germany!

Dr. W. Ludwig[®], Director of the Institute of Biophysics, is indisputably a significant co-founder of modern natural healing, the complementary medicine in Germany. He has made a highly significant contribution to and had an equally important influence on the development of bioresonance and regulation therapy, pulsating magneto-therapy, color-light/laser therapy, and the analog and digital transfer and storage of bioinformation.



Figure: Dr. Wolfgang Ludwig (1927-2004)

Dr. Ludwig[®] (1927 – 2004) with his biophysical research and development work laid the scientific-practical foundations for Bioinformative Medicine.

As institute-director Dr. W. Ludwig[®] was completely independent in his research and development work. He undoubtedly belonged to what has in the meantime become that very rare breed of private scholars / private researchers, who are exclusively interested in the "subject" for the sake of people. His studies of multiple disciplines (physics, chemistry, medicine) enabled him to engage in in-depth examinations of quantum physics, analog and digital storage and transfer of bionformation, and low- and high-frequency technology. His extensive work on "The extended unified quantum field theory of Burkhard Heim" has been groundbreaking for the scientifically well-founded effectiveness of quantum medicine or even homeopathy.

Prof. Dr. F.-A. Popp, himself an internationally respected researcher in biophotons, on the scientific achievements and contributions of his colleague Dr. W. Ludwig[®]:

"Wolfgang Ludwig belongs to that group of physicists who have significantly helped to shape complementary medicine in Germany. He has helped to ensure the continued leading role of German natural healing in the world (...) Even when the potentials which grow out of this have hitherto barely been exploited here in Germany, but have rather been suppressed, there still remain the achievements and also the important information, which stimulate the increasing progress made in other countries. They provide the stimulus to emulate and further develop promising approaches. They provide impetus worldwide for a new era of health consciousness."

More information on Dr. W. Ludwig[®], his scientific career, the main points of research and results can be found in the attached interview. (Refer here to the interview with Dr. Ludwig[®], the “father of magneto-therapy”, in the renowned German magazine raum&zeit; a copy of this interview appeared in the US magazine EXPLORE, 1997, under the title: “What Everyone Should Know About Magneto Therapy”)

AMS GmbH: diverse range of products

AMS GmbH has in the last few years continued to invest large amounts of money and scientific know-how in technically developing and diversifying the product range – especially with regard to the field of large and practical devices.

All devices comply with the latest microelectronics standard and are currently being used with great success worldwide in more than 50 countries. (Further information on the current product range can be found in the catalogue and on the homepage at www.magnetotherapy.de).

Accept no imitations

AMS GmbH’s product range is characterized by a series of unique-position characteristics. However, attempts are constantly being made to copy individual devices. For this reason, always look out for the original:

You can recognize the original by the arrow symbol!



Figure. Arrow symbol – trademark of AMS GmbH

Bioinformative Medicine: basic principles of quantum physics!

Quantum physics has shown that vibration quanta (interaction quanta – especially “photons”) are superordinate to and control matter. Nobel prize winner Carlo Rubbia (Nobel Prize 1984), General Director of CERN in Geneva, has summarized this fact succinctly:

“We usually consider only matter, because we can see and touch it. However, much more important than matter particles are interaction quanta, as these hold the matter together, determine or control their structures and are far superior in numbers in the universe.” According to the theory of B. Heim, there are at least one hundred million times more interaction particles (“without rest mass”) than matter particles (“with rest mass”).

We further know that cell communication in living things takes place below the molecular level with the aid of electromagnetic alternating fields. They have the function of a wireless information network. In each cell more than 100,000 pieces of information are exchanged per second. Research into biophotons (with the German F.-A. Popp at the forefront) was able to show that a cell, when it dies, gives off its light abruptly and transmits the modulated structure information to the surroundings in such a way that a new cell can be created with the same structure. Cells communicate therefore via light and this light is called biophotons.

We can therefore say:

Biophotons are the light in our cells!

Since interaction particles, i.e. biophotons, are superordinate to and control matter, all the processes of life occur by means of biophotons. The development of the universe is inseparably linked with the processes of life, the biophoton field.

Biophysicist Ilya Prigogine (Nobel Prize 1977) explained the interaction connection in very clear terms:

“As I age, my molecules do not age; rather, the interaction quanta change and with them the structures.”

On the one hand, it would be beyond the scope of a brief “Introduction to the function and operation of Bioinformative Medicine” if we were to deal in greater detail with the fundamental work of B. Heim on “The unified quantum field theory” and his further findings and conclusions with regard to quantum medicine.

On the other hand, without the findings of B. Heim about “different lower and higher layers of existence and their connection”, further understanding of the function and effectiveness of quantum medicine and thus Bioinformative Medicine remains fragmentary. Dr. Ludwig’s achievements also include the fact that he was able to show in comprehensible form difficult facts of quantum mechanics. Dr. Ludwig:

"Heim's theory says that there are four layers of existence, each with their own logic structure and a hierarchical structure. The layers interact with each other and have sublayers, which likewise interact with each other."

Illness can occur and be treated in each of these layers of existence. Dr. Ludwig:

"The fact that the interaction quanta (photons) are superordinate to matter explains the positive effect of information therapy, which takes place on a higher level, while chemistry operates at the lowest level:

The figure below by Dr. Ludwig[®] shows in schematic form the interactions of layer of existence – origin of illness – treatment for humans and animals.

(Refer here to: Ludwig, W.: Die erweiterte einheitliche Quantenfeldtheorie von Burkhard Heim. Innsbruck 1998, P. 35)

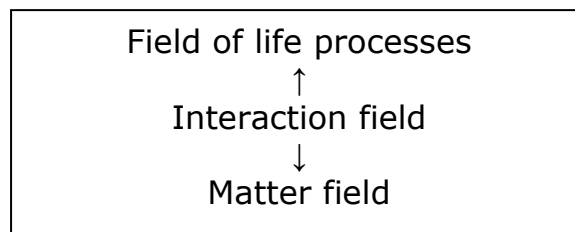


Figure: Interactions of *Layer of existence* – *Origin of illness* – *Treatment* for humans and animals

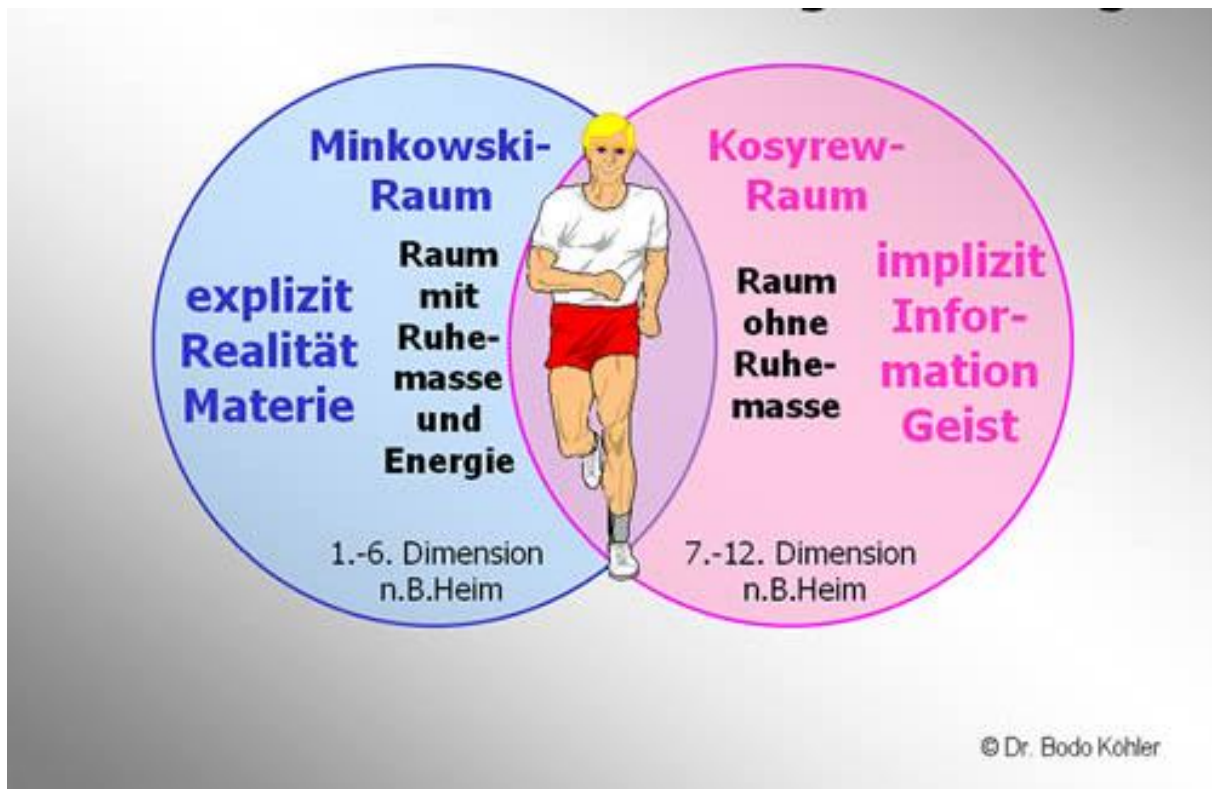


Figure. Dimensions according to B. Heim

Explanations: 1st to 6th dimension (= Minkowski space) and 7th to 12th dimension (= Kosyrev space).

Minkowski space: The mathematician Minkowski combined space and time into a four-dimensional hyperspace, so-called "Minkowski space", which Albert EINSTEIN also used in his theory of relativity. "Time" occurs as a space constant. Modern science points out that "time" only exists for our consciousness, but actually everything exists simultaneously. What we experience as "time" is a "movement through parallel worlds".

On the basis of this B. HEIM developed a twelve-dimensional universe with the physical dimensions X1 to X6: space (length, height, depth), time, structure possibilities, realization of special structures and the non-material dimensions X7 to X12 (Kosyrev space): Information I (X7, X8) and mental "background space" G4 (X9 to X12). To summarize, it is possible to stress that physics is interwoven with metaphysics!

(Refer here to: Ludwig, W.: Die erweiterte einheitliche Quantenfeldtheorie von Burkhard Heim. Innsbruck 1998.)

Heim's theory is the most thoroughly tested theory; it is computer-tested and matches down to the last decimal hitherto obtained measured values of the rest masses of elementary particles. We can conclude from the theory of B. Heim that the mind determines the matter.

If we summarize the essential findings of quantum physics and research into biophotons, we come to the realization that medicine in the future will be medicine determined by "information".

This is because we know that:

1. The interaction quanta (photons) are far superior in numbers and accordingly our organism is composed for the most part of vibration quanta (essentially photons) and only to the smallest extent of ponderable matter.

2. All life processes in the organism are controlled by interaction quanta (photons), which are superordinate to matter.

3. The hierarchically structured layers of existence are interconnected via the biophoton field.

Refer here to Figure. Dimensions according to B. Heim:

1st to 6th dimension (= Minkowski space) and 7th to 12th dimension (= Kosyrev space).

4. Cells communicate via light (i.e. biophotons). The transfer of information in the cell takes place by way of so-called biological resonance effects. From a biophysical standpoint, these biological resonance effects form the basics for intra- and extracellular communication, the control of internal control loops.

Dr. Ludwig summarized the practical significance of these scientific findings in the classic sentence:

“With the biophoton field we have a key which can also be used for therapy!”

Biophotons – the light in our cells!

Research into biophotons (F.-A. POPP et al) provides important findings for further understanding of the function and operation of Bioinformative Medicine. The most important findings will be discussed in brief in the following.

Biophotons transmit energy and information and make life possible in the first place. Because they have zero mass, photons can attain light speed. Measurements by POPP have shown that photon radiation is a coherent light of a higher order – a type of biological laser light which cannot arise by chance. This biological laser light is, thanks to its inherent order, able to create order itself and transmit information.

Biophotons – responsible for communication inside the organism

Fritz-Albert Popp proved in an experiment that two scavenger cells (phagocytes) one centimeter apart – but separated by a glass wall (!) – communicated with each other by means of biophotons. Cells give off a coherent biophoton wave. When two coherent waves of identical frequency meet each other, they recognize each other and the cells are attracted to

each other. The cells, according to Popp, communicate at light speed with each other on the path of their coherence. The DNS is transmitter and receiver in the process.

Cell division, according to Popp, is triggered and controlled by the biophotons. A single photon is sufficient here. In one cell there are in fact 100,000 reactions per second, but because one photon is able within one nanosecond to place a molecule in the excited state (and thus make it reactive) and back again, it can even trigger and control one thousand million reactions within one second.

Biophotons are particles and a wave at the same time – so-called light quanta. They ensure communication at light speed in the cell and between the cells (and organs). Biophotons – as carriers / transporters of energy and information – form as it were the > technical network < for the self-control of the organism. They make life possible in the first place. According to POPP: “It is inconceivable that this communication occurs solely via chemical transmitters. All that remains is the electromagnetic field, in which the biophotons play a crucial role ...”

POPP again: “Communication of the cells through the coherent waves of the biophotons is not dependent on distance. The signal loses nothing on its path, the wave loses nothing of its information, regardless of how far the path may be.”

A similar position is taken by German physicist and biochemist Lebrecht von Klitzing, who states that the exchange of information between cells at least over further communication distances cannot be explained by ion shift (plus chain reaction). According to von Klitzing: “An efficient data transfer would be ensured by means of electric or electromagnetic fields” – i.e. biophotons.

And molecular biologist Roeland van Wijk writes: “Only through a coherent emission of energy does a piece of information simultaneously achieve each individual structure. Even when the sequence of individual cellular processes appears autonomous, this is adjusted with the overall system.(...) It is not the minimal metabolism which keeps the cell alive, but the coherence of the quanta emission which controls the occurrence in the protoplasm with the overall organization of metabolism regulation.”

Even Gunter M. Rothe, Professor of General Botany, is certain: “The electric field must both monitor and regulate all life processes. It must be the mechanism that results in holism, organization and continuity.”

To summarize:

Photons

- are light quanta of ultraweak cell radiation (10^{18} times weaker than daylight). Light quanta store and transport information / data at light speed – even on (body) water.
- ensure central biofunctions such as control and regulation of cell(s) and organs, growth and differentiation are based on short- and long-range electromagnetic couplings – the biophotons.
- control processes of regeneration, therapy and prophylaxis. A disruption and blockage of self-regulation and thus a therapy / regeneration and healing can be excited accordingly via the biophoton field.
- transmit bioinformation and ensure that such information is stored on (body) water, an aqueous solution, own blood, among others.

Bioinformative Medicine

– developed by Dr. W. Ludwig®

More and more chronically ill patients (suffering from chronic pains) are aware of the (sometimes serious) side effects of classic medicine, which is primarily based on the administering of drugs. These patients often only have limited confidence in classic medicine and are therefore looking for alternative therapeutic methods and procedures which are as free as possible from side effects. These people find an alternative in a medicine of modern natural remedies which views health and illness within the framework of a complex regulation system.

These modern natural remedies include among others all those procedures which work on the basis of bioinformation (i.e. electromagnetic vibrations). Another key term in this context is information medicine, the object of which is to influence the overall regulation of the organism and thus cell regulation.

Regardless of whether the term used is regulation, bioresonance or pulsating magneto-therapy, Dr. W. Ludwig® was one of the leading persons who paved the way for quantum medicine and thus information medicine. He has made an outstanding scientific contribution to the paradigm change in medicine.

With his comprehensive spectroscopic measurements and his diverse research into the subject of “water and homeopathy”, Dr. Ludwig® delivered fundamental scientific findings on the function and operation of Bioinformative Medicine.

Two of his numerous scientific standard works are consequently entitled: “Informative Medicine, Causes of Illness / Treatment without Chemicals”

(1999 / out of print) and "Water and Homeopathy, The Importance of Water Structure as a Carrier of Information" (2002).

Groundbreaking above all are his comprehensive frequency measurements of natural and artificial environmental signals and of homeopathic substances/bioinformation in conjunction with water and their transfer and storage on water. Numerous laboratory tests and complex double-blind studies on the effectiveness of artificially generated electromagnetic fields. With his biophysical research and development work, he has above all also laid the technical-practical foundations for modern device medicine for natural remedies.

Dr. Ludwig[®] was the first biophysicist in Germany to introduce to good effect findings from the field of quantum physics into the research and development of medical-technical devices – especially of pulsating magneto-therapy devices. Already by the mid-1970s he had begun intensive testing and by the start of the 1980s he had begun the series production of small and hand-held devices (primarily for home use) as well as large and practice devices for professional-therapeutic applications.

Bioinformative Medicine works on the basis of artificially generated electromagnetic signals:

Pulsating magneto-therapy

As already shown in brief, one of the essential findings from quantum physics and biophoton research is the fact that our organism is made up for the most part of vibration quanta (photons) and only to a small extent of ponderable matter. The amount of matter only makes up 0.1 %! 99.9 % of our universe is made up of electromagnetic alternating fields!

We can therefore say:

Biophotons or electromagnetic alternating fields control all cell activities and form the basis of the bioenergetic (self-) regulation of our organism.

Therapy with pulsating electromagnetic signals (in short: pulsating magneto-therapy or also pulsating signal therapy / PST) works on the basis of interaction quanta. We can therefore also refer to biophoton therapy.

Because communication in our body takes place below the molecular level with the aid of electromagnetic signals, so-called "biophotons". The basic substance is the central medium for controlling metabolism and detoxification processes. It functions as a "wireless information network" and controls each second through the exchange of biophotons at light speed over 100,000 vital functions of each individual cell (approx. 80 billion).

To summarize, we can say:

- Electromagnetic vibrations determine our lives!
- Electromagnetic interactions are the most elementary couplings which occur in living things
- Electromagnetic interactions transmit the information in our organism, in the cell
- Electromagnetic vibrations determine cell communication or more precisely cell regulation:

From this, we can deduce:

Magneto-therapy stimulates accordingly not material structures, but rather the "biofield" of a person. Stimulation occurs through biological resonance effects.

What is essential in this respect, however, is that this artificially generated electromagnetic field is mimicked true to undisturbed nature and in the correct ratio. In this connection, three natural frequency spectra – we can also refer to them as "Biological Normals" - are as control pulses crucial for cell regulation.

**Unique-position characteristics of AMS devices:
natural environmental signals - three Biological Normals**

A significant part of Dr. Ludwig's 30 years of research and development work was devoted to these three natural frequency spectra or Biological Normals:

Schumann-, geomagnetic- and solar-frequency spectra.

The "*Schumann-frequency spectrum*" denotes the natural resonances of the system of the Earth's surface and ionosphere in the low-frequency range, the so-called YANG signal

The "*geomagnetic-frequency spectrum*" denotes the modulation of the Earth's magnetic field by the natural frequencies of the 64 trace elements, the so-called YIN signal

The "*solar-frequency spectrum*" denotes the corresponding USW frequencies of natural sunlight.

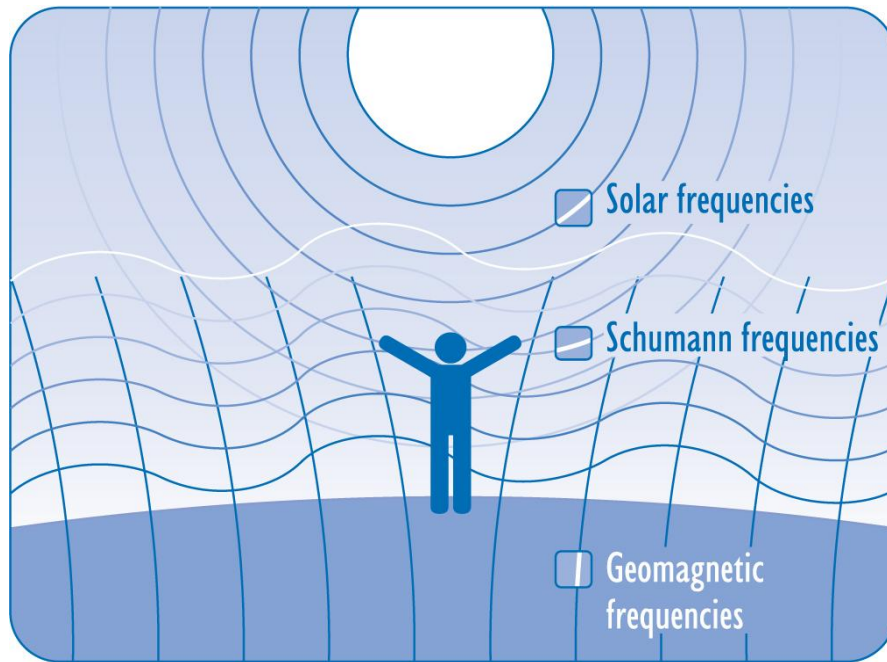


Figure: The three Biological Normals: Schumann-, geomagnetic- and solar-frequency spectra

What is remarkable about these three natural signals is that Man in the course of his development has adapted to these three Biological Normals and needs them as control signals.

Today these natural signals are weakened and masked or disrupted by technical transmitters. This weakening is caused on the one hand by the screening effect of buildings and on the other hand by the lowering of the groundwater level compared with earlier and thus gives rise to reduced electrical ground conductance (e.g. pumping out of groundwater by business establishments, drainage, asphaltting, etc.).

Biological Normals - YIN-YANG balance

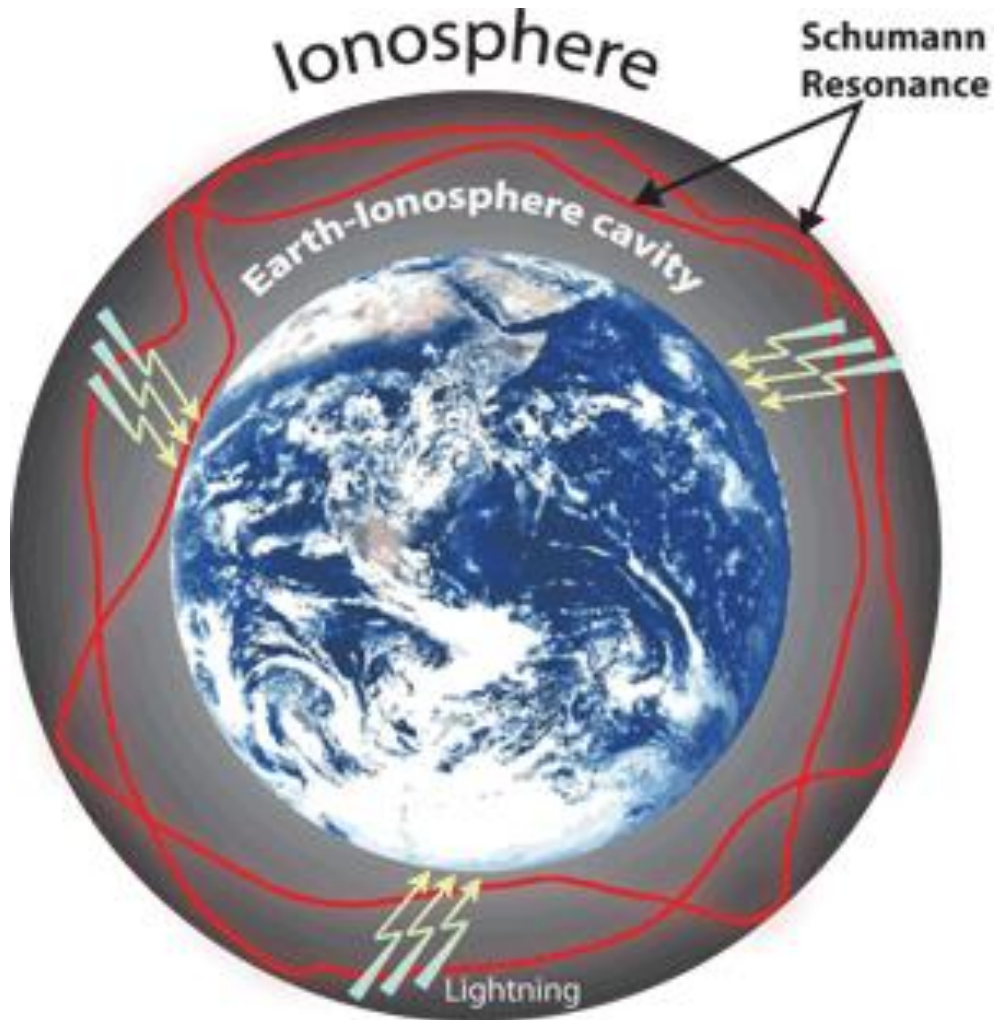
The millennia-old, classical Chinese medicine was already aware of the fact that "Man needs at least two environmental signals, a Yang signal from above (Schumann frequencies) and a Yin signal from below (geomagnetic frequencies), which should be in equilibrium".

Natural environmental signals

Schumann frequencies

The Earth's surface is surrounded by the ionosphere at a height of approx. 100 km. Like in a musical instrument (e.g. violin), natural resonances occur in this huge cavity resonator. These natural resonances are known as Schumann frequencies after their discoverer, physicist W. O. Schumann (see Figure 1).

The fundamental component is 7.8 Hz. The main command center of the human brain, the hippocampus / hypothalamus, vibrates at the same frequency of 7.8 Hz; this area of the brain is important for attentiveness and concentration. Is this coincidence or evolution?



Geomagnetic frequencies

The Earth's crust contains, among other things, 64 elements, the so-called "trace elements", which are essential for life. Each of these trace elements has a characteristic vibration pattern. The Earth's magnetic field absorbs this vibration pattern. The absorption of the vibration patterns is known as "modulation" and leads to rhythmic fluctuations of the Earth's magnetic field. This modulated Earth's magnetic field is called geomagnetic frequencies.

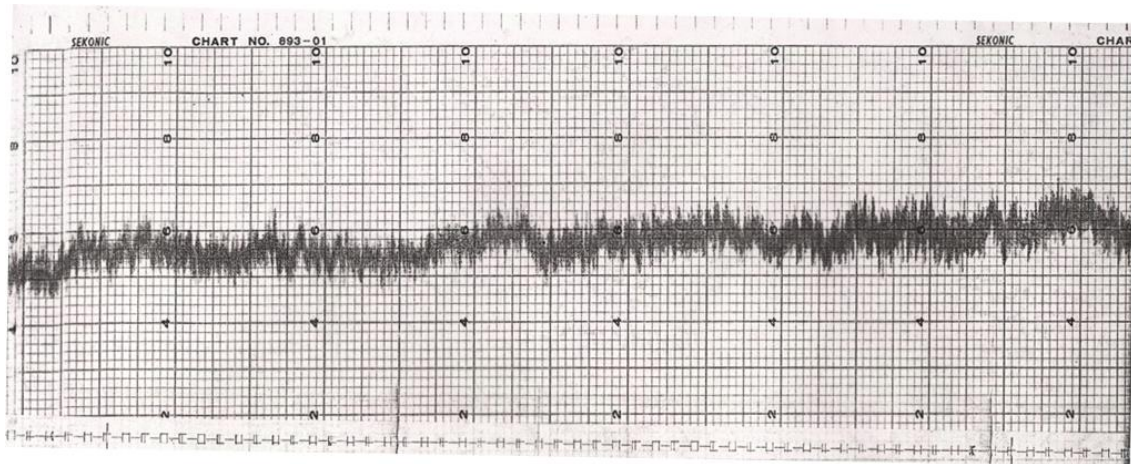


Figure: Rhythmic fluctuations of the Earth's magnetic field

The Earth's crust contains the same minerals essential for life ("trace elements") as are found in the red blood corpuscles of human beings. The ratio between them is virtually the same.

Solar frequencies

A third natural source of important signals is our Sun. The Sun emits not only light in the visible range, but also a wide spectrum of low frequencies well into the ultraviolet and X-ray ranges.

In particular, it is the frequencies in the ultra-short wave range of this spectrum which resonate with the cellular building blocks in the organism.

For the USW frequency range there is an optical window in the atmosphere just like the one for visible light. For each visible frequency in window I (see Figure 3) there are corresponding frequencies in window II (see Figure 3), which are referred to as solar frequencies.

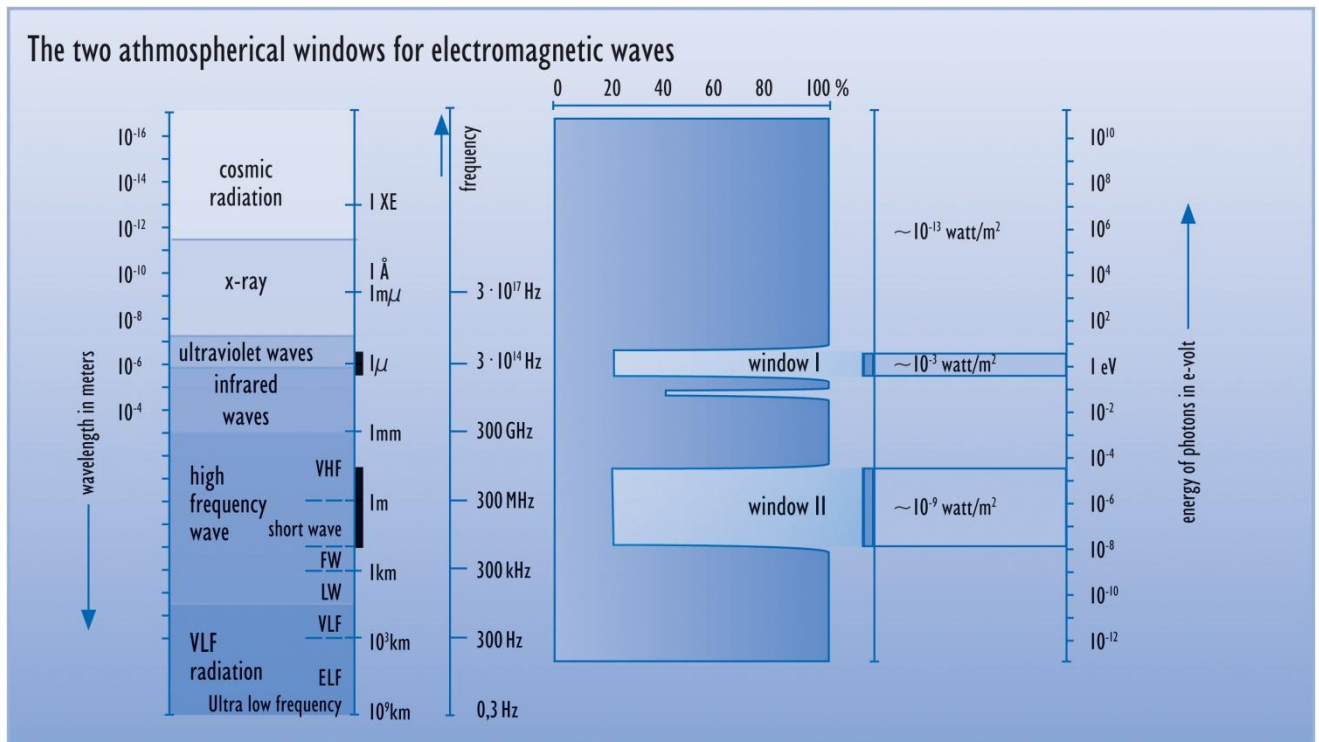


Figure: The two “atmospheric windows” for electromagnetic radiation.

For electromagnetic radiation of most wavelengths the Earth’s atmosphere is practically impenetrable, except for two zones: one lies in the range of visible light, the “optical window”, and the other lies in the range of radio-frequency radiation, the “radio window” (according to König, 1977).

Physiological quality characteristics of AMS devices:

Magnetic field strength, pulse shape, frequency modulation, individual frequency setting, automatic frequency programs

Physiological quality characteristics of a pulsating electromagnetic field are crucial to its effectiveness on the intracellular space in terms of the biological resonance phenomenon.

The three Biological Normals are, in addition to the *magnetic field strength*, the *pulse shape* and the correct *frequency*, the quality characteristics crucial to the physiological effectiveness of a pulsating magnetic-field device. Because the organism only “understands” signals which are with regard to magnetic field strength in the range of the physiological response threshold – in the “Adey window” or “biological window”. The *pulse*

shape of the artificially generated electromagnetic therapy signals should – in the truest sense of the word – absolutely be of a *physiological nature*. According to Dr. Ludwig's research findings, unphysiological therapy signals (e.g. "square-wave signals" or "saw-tooth signals") permanently place a negative strain ("permanent stress") on the organism – particularly in older people.

The magnetic-field devices developed by Dr. Ludwig[®] generate an electromagnetic signal which is modeled on nature. With regard to the time characteristic, it corresponds in signal shape to the pulse routing of our nervous system. These "action potentials" are characterized by a rapid rise and a slow fall of the individual pulse.

The individual **technical quality characteristics** are explained in brief in the following:

Magnetic field strength

With his scientific work, the American neurophysiologist Prof. Dr. W. Ross Adey, demonstrated that:

Electromagnetic signals only have a physiological effect (i.e. stimulation of the biophoton field with the aid of biological resonance effects) when they reach the organism's "physiological response threshold".

Dr. Adey arrived at this conclusion in the course of his research experiments. While varying the frequency and intensity, he measured the influence of a pulsating magnetic field on the amount of Ca²⁺ flowing into the cells of chicken eggs (physiological effect).

To his amazement, Dr. Adey ascertained:

In order to achieve a measurable physiological effect, a certain basic intensity of the applied magnetic field was required (the organism's response threshold had to be reached). But once a certain maximum was exceeded ("Adey window"), any further increase in intensity (amplitude) caused a reduction and finally termination of the effect.

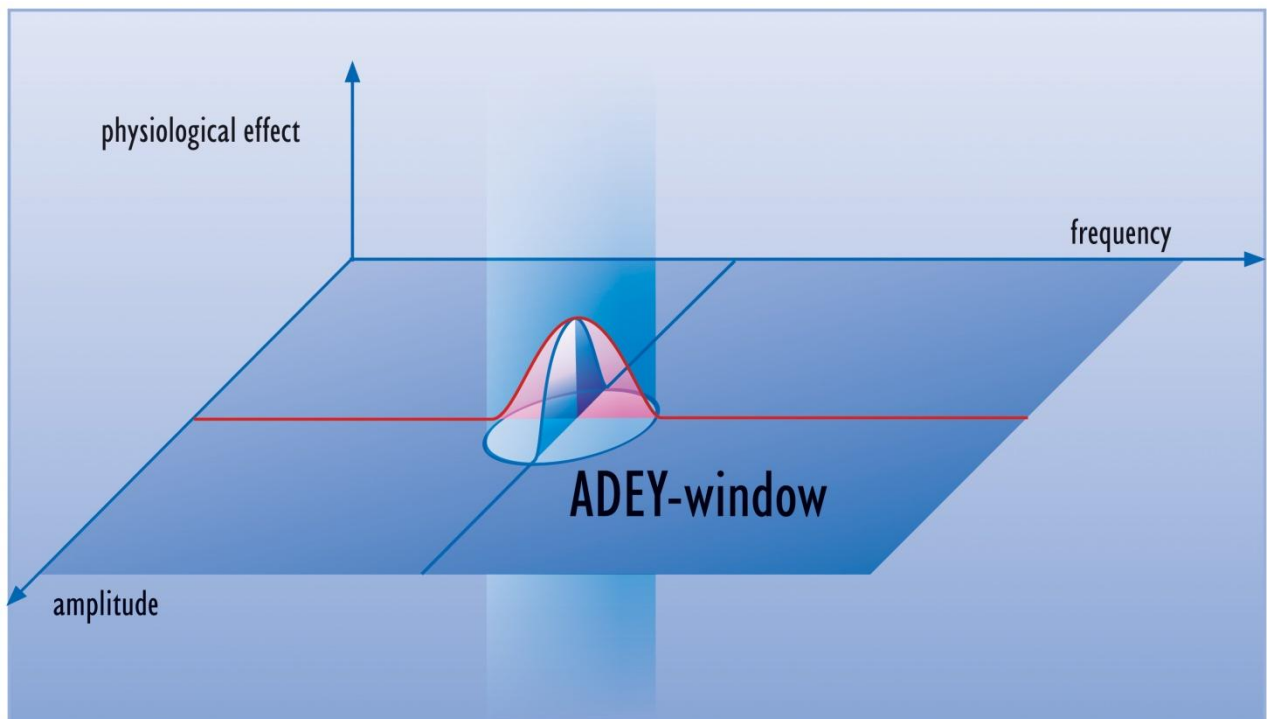


Figure: The “Adey window” (or also “biological window”) is the name given to the narrow signal-intensity and frequency bands in which the organism responds, but outside of which nothing happens.

(For the sake of completeness, it should be mentioned here that only one maximum is shown as an example in the diagram. However, there are certainly further frequencies which trigger off physiological effects.)

Based on the findings of Prof. Ross Adey, the magnetic-field devices developed by Dr. Ludwig work with very weak fields. These are generally referred to as “soft magnetic fields”. Depending on the type of device, the magnetic field strength only lies between 0.1 and 60 microteslas. Because:

When it comes to soft magnetic fields, as in homeopathy, the dose-effect principle based on the maxim: “More is better!” or: “Strong pulsating magnetic fields help better!” does NOT apply.

Soft magnetic fields and strong magnetic fields work on the basis of completely different physical principles (see figure below).

Devices which work with strong electromagnetic fields are based on the principle of so-called Lorentz or electrodynamic force (force which acts on a moving charge carrier in a magnetic field), where, among others, the following applies: the stronger the magnetic field, the greater the force (compare with the dose-effect principle).

The AMS devices achieve their effect NOT according to the principle of "LORENTZ FORCE" but instead according to the principle of "FARADAY'S LAW OF INDUCTION" (see figure).

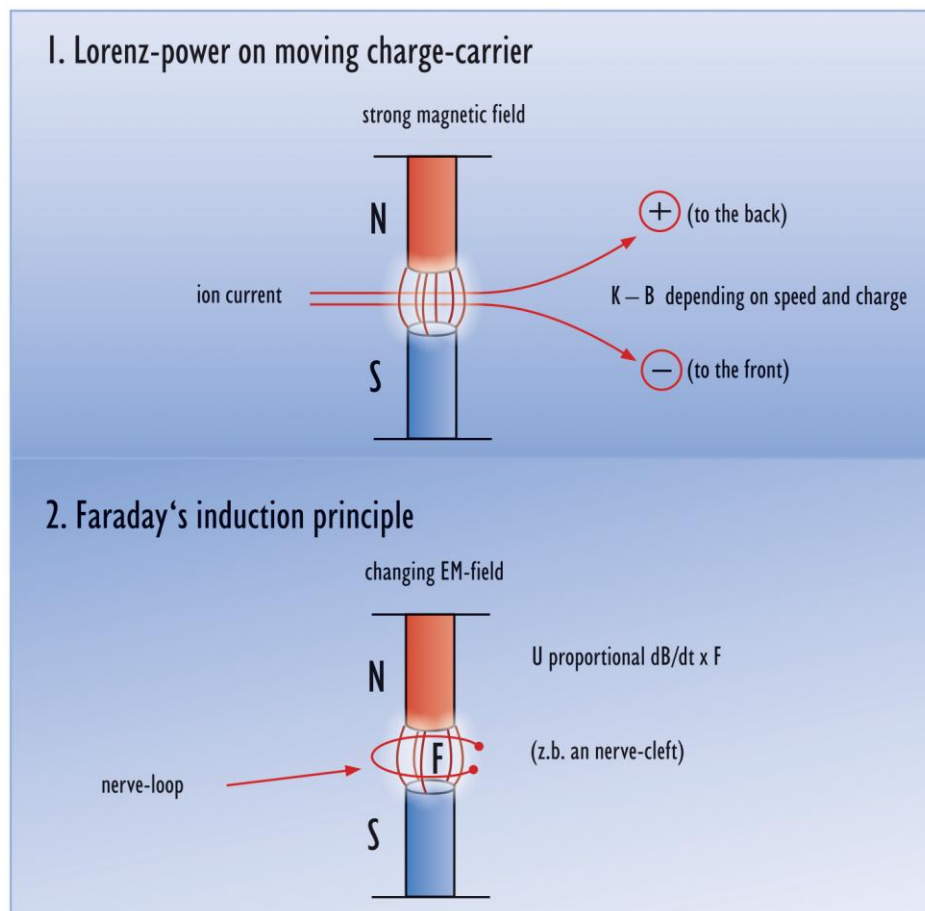


Figure: LORENTZ force on moving charge carriers and Faraday's law of induction

In other words: the effectiveness is only dependent on the included area and on the periodic changes in the (electro-)magnetic flux – **BUT NOT ON THE INTENSITY / STRENGTH of the magnetic field generated.**

Since the periodic changes in the electromagnetic flux are thus assigned special significance, the shape or the time characteristic of the magnetic-field pulse is also a very important quality characteristic.

Pulse shape

There are a number of possible pulse shapes ("saw tooth", "square wave", "sinusoidal"), some of which are even protected by patents.

The signal shape used by the magnetic-field devices developed by Dr. W. Ludwig[®] corresponds in its time characteristic to the signal shape which can be observed when pulses are relayed in the natural nervous system (see figure).

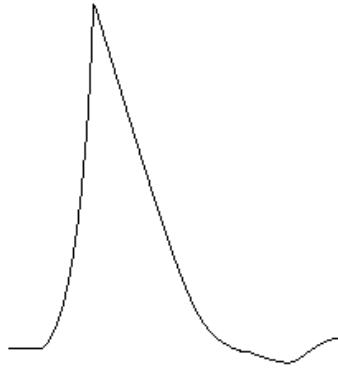


Figure: Signal shape corresponds in its time characteristic to the relaying of pulses in the nervous system

The characteristic features of this pulse shape (known in biology as “action potential”) are the extremely fast rise (approx. 1 microsecond) and the slightly slower fall. As a result of the fast rise, there is an extremely high periodic change in the magnetic flux, which according to Faraday’s Law of induction (see figure previous page) ensure great effectiveness even though only a weak magnetic field is being used.

Pulsating magnetic fields – low- and high-frequency bands

Our devices ensure “wide-band” application in that they work on the basis of weak, fast-changing electromagnetic fields in the low- and high-frequency bands (depending on the device type and applicator in the harmonics up to 10 MHz).

Frequency modulation – optimum frequency programs and setting

In conjunction with the three Biological Normals, the AMS devices guarantee a highly complex frequency spectrum. The choice and setting of individual frequencies and automatic frequency programs (depending on the device type with further possibilities for phase, amplitude and frequency modulation, regulation of the magnetic field strength) guarantee an optimum treatment concept.

Together with several thousand users, Dr. Ludwig® has empirically found specific frequency programs for a large number of medical conditions. Naturally, in addition to the listed frequency programs, all other (individually tested) individual frequencies can be set.

Modulation – transmission and storage of exogenous and endogenous bioinformation

Exogenous and endogenous bioinformation can be transmitted and stored by means of the pulsating magnetic field. The pulsating magnetic field acts as a carrier wave and is modulated (see figure below).

In our large devices, bioresonance therapies, endogenous information therapies and appropriate expulsion therapies can also be conducted with the aid of a pair of hand electrodes (or animal applicators).

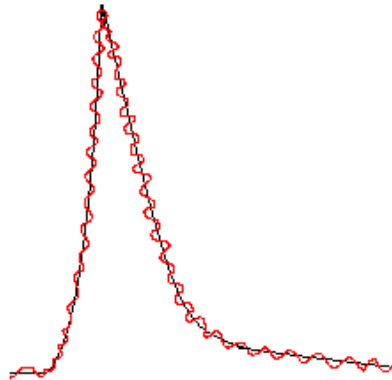


Figure: The red line symbolizes the correspondingly modulated bioinformation.

In the figure, the red line symbolizes the correspondingly modulated bioinformation. The pulsating magnetic field becomes as it were the means of transport into the organism. The advantage: because the carrier signal is electromagnetic, the intracellular space is also supplied with the corresponding control signals or bioinformation.

The spectra of the most important 64 trace elements and the solar frequencies are also transmitted in the same way.

Electrical signals (see, for example, conventional “zappers”) only partly reach the inside of the cell because cells, on account of their double-membrane structure, behave like small “Faraday” cages.

Furthermore, an input cup / MEDICUP for exogenous information therapy (e.g. transient effect of homeopathic substances, substrates occurring naturally in the body, allergens, nosodes, Bach flower remedies, phytotherapies, spagyrica, etc.) can be connected. These items of exogenous bioinformation are modulated to the set carrier frequency.

Herein lies the fundamental difference from therapy using electrical fields (e.g. usual “zappers”), which only have an extracellular effect, and other assorted bioresonance devices, which work purely on a radionic basis or with orgone emitters.

The AMS devices work on the basis of a weak electromagnetic field (Faraday principle), which satisfies all the physiological-technical quality characteristics - and everything is technically verifiable.

Physiological quality characteristics – scientific studies of the effectiveness of electromagnetic fields

Dr. W. Ludwig[®] and Prof. W. R. Adey have demonstrated in further fundamental research work the influence of electromagnetic fields.

W. R. Adey in the following fields:

- Immune systems (e.g. activity of T lymphocytes)
- Fetal development during pregnancy
- Receptors on cell membranes
- Cell growth and its regulation
- Reciprocal influences of brain functions and hormone production, especially in the pineal body

Dr. W. Ludwig[®] as early as 1976 in the form of double-blind studies (2600 patients!) in the following fields:

- Chronic headaches
- Migraines
- Rheumatic pains
- Scar pains
- Insomnia
- Travel sickness
- Nervousness
- Weakness / exhaustion
- Circulatory disorders
- Foehn sickness
- Other vegetative disorders

An English study was conducted in 2001 by Nicolò Pipitone and David L. Scott Rheumatology Department, King's College Hospital (Dulwich), London SE22 8PT, on the following subject:

"Magnetic Pulse Treatment for Knee Osteoarthritis: A Randomised, Double-Blind, Placebo-Controlled Study", King's College Hospital, East Dulwich Grove, London SE22 8PT, UK.

What does pulsating magneto-therapy bring about?

Pulsating magneto-therapy is, like homeopathy, an information therapy and is therefore superordinate to allopathic therapy with matter. The combination of pulsating magneto-therapy and bioinformation (homeopathic substances / nosodes / Bach flower remedies and the like) has proven to be particularly effective in practice. This is because, on the one hand, the magnetic field penetrates unhindered into the inside of the cell and, on the other hand, the electromagnetic signal can be used as the carrier frequency or means of transport/information carrier for bioinformation. From a technical standpoint, the frequency spectra of bioinformation are "modulated up" to the electromagnetic carrier frequency and relayed accordingly. A distinction is made between exogenous (originating outside the body) and endogenous (originating inside the body) bioinformation. This can be among others: homeopathic substances, Bach flower remedies, nosodes in the form of exogenous and endogenous substrates (such as blood, urine, saliva, operation matter).

Remark / definition: The term "nosodes" (from the Greek for "disease") refers to homeopathically prepared substances which are produced from "diseased" or pathological material such as blood, pus, pathogens or cancer cells. Products from endogenous constituents, such as cells from organs, or secretions or excretions manufactured by the body, such as hormones, are also included.

The therapeutic function of magneto-therapy lies in the fact that the self-healing forces are excited via harmonics, i.e. the person's "biofield" is stimulated. *Stimulation is achieved by means of biological resonance effects.*

Magneto-therapy brings about an increased supply of oxygen to cells, increased cell metabolism and thus also detoxification.

Magneto-therapy leads to an increase in physical and mental capability and in a harmonization of the vegetative nervous system. It encourages circulation of the blood and results in stabilized circulation. Pulsating magneto-therapy can therefore be used and applied equally in the fields of prophylaxis, regeneration and therapy!

In what areas is magneto-therapy used?

Pulsating magneto-therapy is, among other things, especially suitable for strengthening the immune system in the event of infections and metabolism-related allergies, for relieving pain and for activating the hormone balance and the associated physical and mental wellbeing. We know that so-called "systemic illnesses" are in clear proportion to growing environmental pollution. Our organism is being increasingly subjected to environmental toxins, stress and electrosmog. Every day our organism is confronted with contaminants from air, soil and water. Personal contaminants in the psychosocial field such as stress, worry, grief and inner emptiness can easily be added to this list, as can an unbalanced, incorrect diet or the constant taking of painkillers and sleeping pills. These can cause acute and chronic illnesses, such as e.g. allergies, skin infections, psychosomatic disorders, migraines, rheumatic and arthritic pain and fungal infections. Dr. W. Ludwig's pulsating magneto-therapy has proven a great success in all these areas.

AMS GmbH's large and practice devices have a "Device setting list", which features more than 150 program and frequency settings for all kinds of healing treatments.

Incidentally: magneto-therapy is also a detoxification therapy. It is therefore always necessary after a therapy to drink plenty of water that is low in minerals so that the avalanche of contaminants that occurs can be disposed of. Magneto-therapy "suppresses interference" and harmonizes as it were our organism and provides day and night for our "biological normal".

Magneto-therapy can also be referred to as "electronic homeopathy"; not just because it is free from side effects, but also due to the fact that both therapy procedures work on the level of interaction quanta, the energy and information levels, which are superordinate to matter. Chemistry, on the other hand, works on the lowest, i.e. allopathic, level.

**ADVANCED
MEDICAL
SYSTEMS**

**AMS GmbH
HAUPTSTRASSE 26
D-97990 WEIKERSHEIM**

**Phone: ++49-(0)7934/993489-0
FAX: ++49-(0)7934/993489-44
E-MAIL: info@ams-ag.de
www.ams-ag.de
www.magnetotherapy.de**

Copyright by AMS GmbH 2010

II: Bioinformative Medicine – the Medicine of the Future! Ten Arguments

1. “With the biophoton field we have a key which can also be used for therapy!” (quotation by Dr. Ludwig[®])

Bioinformative Medicine, developed by Dr. rer. nat. W. Ludwig[®], is based on scientifically supported findings pertaining to quantum physics. It works on the basis of interaction quanta or “biophotons”.

We know that communication in our body below the molecular level takes place with the aid of electromagnetic signals (i.e. “biophotons”). The “basic substance” functions as a “wireless information network” and controls each second through the exchange of biophotons at light speed over 100,000 vital functions of each individual cell (approx. 80 billion).

The basic substance is the central medium for controlling metabolism and detoxification processes.

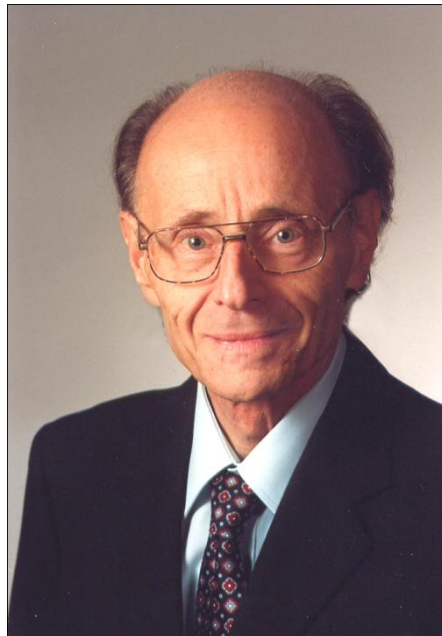


Figure: Dr. Wolfgang Ludwig[®] (1927-2004)

We emphasize:

Electromagnetic interactions transfer the information in our organism. They control cell communication or more precisely intra- and extracellular regulation and thus overall regulation of the organism.

Dr. W. Ludwig[®] put this biophysical finding to a practical application in the form of his Bioinformative Medicine. As long as 30 years ago he developed medical-technical devices which stimulate not material structures, but rather the "biofield" of a person. Stimulation occurs through biological resonance effects.

What is essential for "biological resonance effects", however, is that this artificially generated electromagnetic field is mimicked true to undisturbed nature and in the correct ratio.

2. Unique-position characteristics: Three Biological Normals!

Stimulation by means of biological resonance effects presupposes, however, that the artificially generated electromagnetic signal satisfies certain physiological quality characteristics!

The research into physiological quality characteristics is one of the most important contributions made by Dr. Ludwig[®]. He discovered in long and comprehensive series of research and measurements three natural frequency spectra – we can also refer to them as Biological Normals - as control pulses crucial to cell regulation:

Schumann-, geomagnetic- and solar-frequency spectra.

The "Schumann-frequency spectrum" denotes the natural resonances of the system of the Earth's surface and ionosphere in the low-frequency range, the YANG signal

The "geomagnetic-frequency spectrum" denotes the modulation of the Earth's magnetic field by the natural frequencies of the 64 trace elements, the YIN signal

The "solar-frequency spectrum" denotes the corresponding USW frequencies of natural sunlight.

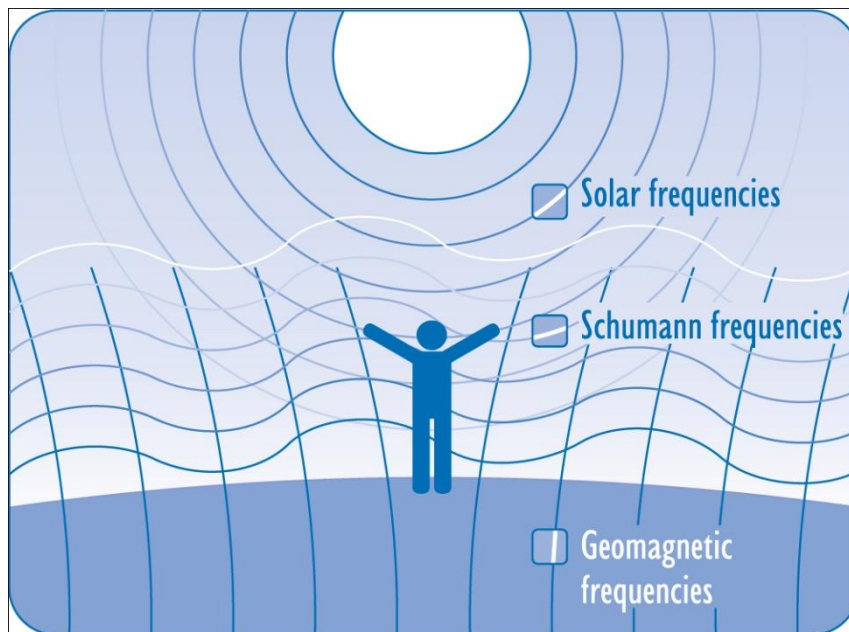


Figure: The three Biological Normals: Schumann-, geomagnetic- and solar-frequency spectra

3. Physiological quality characteristics are the prerequisite for biological resonance!

The three Biological Normals are, in addition to the magnetic field strength, the pulse shape and the correct frequency/-ies, the quality characteristics crucial to the physiological effectiveness of a pulsating magnetic-field device.

Because the organism only “understands” signals which are with regard to magnetic field strength in the range of the physiological response threshold – in the “Adey window” or “biological window”. The pulse shape of the artificially generated electromagnetic therapy signals should – in the truest sense of the word – absolutely be of a physiological nature.

According to Dr. Ludwig’s research findings, unphysiological therapy signals (e.g. “square-wave signals” or “saw-tooth signals”) permanently place a negative strain (“permanent stress”) on the organism – particularly in older people.

Important!

Only the magnetic-field devices developed by Dr. Ludwig® generate an electromagnetic signal which is modeled on nature.

With regard to the time characteristic, it corresponds in signal shape to the pulse routing of our nervous system. These so-called “action potentials” are characterized by a rapid rise and a slow fall of the individual pulse.

Dr. W. Ludwig® and Prof. W. R. Adey have demonstrated in their fundamental research work the influence of electromagnetic fields.

W. R. Adey in the following fields:

- Immune system (e.g. activity of T lymphocytes)
- Fetal development during pregnancy
- Receptors on cell membranes
- Cell growth and its regulation
- Reciprocal influences of brain functions and hormone production, especially in the pineal body.

Dr. W. Ludwig® as early as 1976 in the form of double-blind studies (2600 patients!) in the following fields:

- Chronic headaches
- Migraines
- Rheumatic pains
- Scar pains
- Insomnia
- Travel sickness
- Nervousness
- Weakness / exhaustion
- Circulatory disorders
- Foehn sickness
- Other vegetative disorders

(Refer here to: W. Ludwig® and others: "Influence of alternating magnetic fields", 1976 and "Informative Medizin", 1999)

An English study was conducted in 2001 by Nicolò Pipitone and David L. Scott Rheumatology Department, King's College Hospital (Dulwich), London SE22 8PT, on the following subject:

"Magnetic Pulse Treatment for Knee Osteoarthritis: A Randomised, Double-Blind, Placebo-Controlled Study", King's College Hospital, East Dulwich Grove, London SE22 8PT, UK.

Based on the findings of Prof. Ross Adey, the magnetic-field devices developed by Dr. Ludwig® work with very weak fields. These are generally referred to as "soft magnetic fields". Depending on the type of device, the magnetic field strength only lies between 0.1 and 60 microteslas. Because:

When it comes to soft magnetic fields, as in homeopathy, the dose-effect principle based on the maxim: "More is better!" or: "Strong pulsating magnetic fields help better!" does NOT apply.

Soft magnetic fields and strong magnetic fields work on the basis of a completely different physical principle.

The medical-technical devices developed by Dr. W. Ludwig® work on the basis of a pulsating electromagnetic field which is modeled on nature.

The AMS devices offer therapists various ways of combining and integrating different tried-and-tested natural remedies in one device and in one treatment concept.

Magneto-therapy itself brings about an increased supply of oxygen to cells, increased cell metabolism and thus also detoxification. Magneto-therapy leads to an increase in physical and mental capability and in a harmonization of the vegetative nervous system. It encourages circulation of the blood and results in stabilized circulation.

AMS ADVANCED MEDICAL SYSTEMS

AMS Ltd.
Advanced Medical Systems
D-97941 Tauberbischofsheim
Germany


Dr. rer. nat. W. Ludwig
Institut for Biophysik
D-97941-Tauberbischofsheim
Germany

- ▶ **Magnetic Field Therapy**
- ▶ **Bioresonance-Therapy**
- ▶ **Laser- and Photon-Therapy**

NEW!

- ▶ **MEDISEND super C**
- ▶ **MEDISEND super III**
- ▶ **WAVE TRANSFER C**



 You can identify the original by the arrow symbol

www.magnetotherapy.de

4. Bioinformative Medicine is highly effective: as a therapist you work on several information and therapy levels at the same time!

The biophysical findings (see Points 1 to 3 above) to the effect that electromagnetic interactions (biophotons) transmit information and in conjunction with the basic substance / matrix control intra- and extracellular cell regulation is of absolutely fundamental importance to therapists and their respective treatment concepts.

The great effectiveness of the Bioinformative Medicine of Dr. Ludwig[®] is rooted in the fact that a therapist can work with his/her treatment concept on several information and therapy levels at the same time.

Only the Bioinformative Medicine developed by Dr. W. Ludwig[®] provides therapists with the opportunity to work with their ***treatment concepts on the levels of all four conductors of the organism at the same time:***

- **Light transport (energy) in the meridian system**
- **Soliton transport (information) in the digital nervous system**
- **Matter transport (molecules) in the blood circulation**
- **Charge transport (ions) in the analog direct-current system**

Due to the fact that they can work on the level of all four conductors at the same time, therapists have the opportunity to combine different tried-and-test natural remedies in one treatment concept.



5. Bioinformative Medicine from Dr. Ludwig® brings about various synergistic effects.

Depending on the treatment concept, the following procedures can be combined with each other and optimized in Bioinformative Medicine:

Color-light and laser therapy, exogenous and endogenous information therapy, bioresonance therapy, acupuncture, homeopathy, phytotherapy, physical therapy, expulsion therapy, autologous therapy, neural therapy and many more.

Taking the **CEPES-Laser®** as an example, the *technical implementation* of a combination of different tried-and-tested natural-remedy procedures can be very well explained. The **CEPES-Laser®** is one of Dr. Ludwig's most ingenious developments: highly effective, multifunctional, simple!

The **CEPES-Laser®** is a very good example of a synergistic treatment concept. It works simultaneously on the level of all four conductors (see Point 4).

The combination of different pulsating electromagnetic fields (pulsating magnetic field in combination with color light / **COLOR-Punctur** or with red light / **CEPES-Laser®**) with simultaneous transmission of endogenous and exogenous information / substrates results in clear synergistic effects!

The CEPES-Laser® offers three forms of treatment, which can be realized simultaneously:

Red-light laser – pulsating magnetic field – substrate transient response

It specifically excites the organism's bioenergetic regulation processes on the cell level; it stimulates a person's biofield and is responsible for controlling growth and regeneration. It supports and activates the self-healing forces. For these reasons, the **CEPES-Laser®** achieves local and systemic effects and is therefore also extremely versatile.



Figure: CEPES-Laser® – a red-light soft magnetic field laser with plug-in attachment for an ampoule to transmit substrates

The **CEPES-Laser®** is a red-light soft laser (mean value 650 nm), which also has a pulsating magnetic field (7,8 Hz). It therefore has a very high penetration depth into the organism; the pulsating magnetic field permanently supports the laser effect! This is because the physiological pulse frequency can be used simultaneously as the means of transport and information carrier for exogenous and endogenous bioinformation (e.g. for homeopathic substances, drugs, nosodes, own blood, allergens, Bach flower remedies, spagyrica).

From a technical viewpoint, the **CEPES-Laser®** therefore also includes a plug-in attachment with hole for receiving glass ampoules, into which the corresponding bioinformation is introduced. The frequency spectra of substrates can be easily subjected to transient oscillation via the magnetic field as carrier wave.

The plug-in attachment also serves to broaden the beam of the laser light so that larger skin areas or wounds, hematomas etc. can be easily treated.

The **CEPES-Laser®** works on the organism's bioenergetic level. The laser beam pointed at acupuncture points is routed in the meridians (= light guide).

A pulsating magnetic field with a physiological pulse frequency (7,8 Hz) has a penetration depth of 30 cm (important for scar treatment!). It permanently supports the laser effect through resonance stimulation of the biophoton field. An important fact: a high laser power output is not needed to reach the organism's response threshold! The **CEPES-Laser®** therefore only has a power output of approx. 0.5 mW. This is accompanied by a whole range of further advantages.

The **CEPES-Laser®**:

- is small and handy with low energy consumption
- does not need to be TÜV-tested (German Technical Inspection Agency)
- there is no negative influence of the substrates during transient oscillation (e.g. destruction of the homeopathic substance by a strong magnetic field or superimposition of the useful signals by electrosmog).

A truly multitalented device: local and systemic effects

The **CEPES-Laser®** is a truly multitalented device which has achieved success most of all in the field of acupuncture. Children and older people in particular, who do not like needles much, appreciate the entirely painless and safe soft-laser application – for instance during acupuncture on the mouth, head, hands, ears and body, in the treatment of Head's zones, trigger points and chakras, in the treatment of scars and the resolution of emotional blockages. Last but not least in the treatment of wounds in dentistry and sports medicine, for acupuncture on the mouth, for tracing tooth interference fields...

Thanks to its multifunctionality, the **CEPES-Laser®** offers an extremely wide range of applications and is therefore used worldwide by general practitioners, complementary and natural medical practitioners, acupuncturists and neural therapists, homeopaths, ENT specialists, dentists, dermatologists, veterinary surgeons using holistic veterinary medicine and natural healers, orthopedic specialists, physiotherapists and psychotherapists, right through to cosmetics and wound treatment and scar treatment or the transmission of cosmetic substrates.

6. Bioinformative Medicine from Dr. Ludwig® integrates different tried-and-tested natural remedies in one system! The AMS devices are multifunctional.

The biophysical background to this multifunctionality described in brief lies in the general fact that the pulsating electromagnetic field penetrates unhindered down into the inside of the cell and simultaneously can be used as a:

- 1. Therapy signal or therapy frequency**
- 2. Carrier wave or means of transport for further information.**

Bioinformative Medicine is (like homeopathy, for example) an information therapy and is therefore superordinate to allopathic therapy with matter. The combination of a pulsating electromagnetic field and bioinformation (homeopathic substances / nosodes / Bach flower remedies and the like) has proven to be particularly effective in practice. This is because, on the one hand, the magnetic field penetrates unhindered into the inside of the cell and, on the other hand, the electromagnetic signal can be used as the carrier frequency or means of transport/information carrier for bioinformation. From a technical standpoint, the frequency spectra of bioinformation are "modulated up" to the electromagnetic carrier frequency and relayed accordingly.

A distinction is made between **exogenous** (originating outside the body) and **endogenous** (originating inside the body) bioinformation. This can be among others: homeopathic substances, phytotherapies, Bach flower remedies, nosodes in the form of exogenous and endogenous substrates (such as blood, urine, saliva, operation matter).

For direct therapeutic practice, this means that it is possible to combine, for example, an oral administering of a homeopathic substance with pulsating magneto-therapy. The effect is thereby significantly improved. For instance, in the case of gastrointestinal illnesses, it is possible to spread the homeopathic therapy to two means of transport: the preparation can be administered orally and thereby passes into the alimentary tract. Furthermore, the same preparation can also be given in a two-pole input cup (MEDICUP), which is connected to the two-pole input of a large practice device (MEDISEND®super / super C /super III). The **signals of the homeopathic substance** are **modulated up** to the three "Biological Normals" and transported via the magnetic output as a **therapy signal** into the intracellular space of the areas to be treated.

In addition, the patient can be connected with two hand electrodes - parallel to the input cup - to the input of the therapy device for endogenous information therapy or expulsion therapy. This generates "attention-signals" in the organism, which permanently promote the expulsion of toxins.

The immune system is quite specifically activated with the aid of attention-signals! Apart from more superficial disorders, such as scar blockages or acute pathosis, healing of a chronic disorder demands a highly individual regulation-medicine treatment concept. Obviously a malignant tumor must be operatively removed. This cannot be healed with regulation or bioresonance therapy. It is

recommended, however, that Bioinformative Medicine be used in the postoperative phase to build up the immune system, to activate and strengthen the defense and self-healing forces and to prevent recurrences. Bioinformative Medicine is extremely important in this very area, affecting the energetic level and thereby quite generally improvement of the quality of life of tumor patients.

The therapeutic function of Bioinformative Medicine lies in the fact that the self-healing forces are excited via harmonics, i.e. the person's "biofield" is stimulated. Stimulation is achieved by means of biological resonance effects.

Bioinformative Medicine thus differs in an elementary way from "bioresonance concepts", which talk of a "suppression of pathogenic frequencies by separation and inversion". "There is no workable biophysical concept for the functioning of such an approach" – according to Dr. Ludwig[®] and others.

Examples of a practical application of Bioinformative Medicine: autogenous immune illnesses / chronic infections

Chronic, recurring infections with the same causes represent a big problem today. Fungi, viruses or bacteria can frequently only be inadequately treated with suitable drugs from orthodox medicine. Antibiotics do have a wide spectrum of effectiveness, but the side effects usually damage the immune system.

Bioinformative Medicine follows a different path – free from side effects (!) – in order permanently to strengthen the immune system. Endogenous nosodes of the patient are transmitted as an attention-signal, along similar lines to a vaccination or desensitization (specific immune therapy), into the patient's intracellular space with the aid of the electromagnetic field.

The effect is appreciably intensified in combination with pulsating magnetotherapy.

The electromagnetic field functions as a carrier and information wave and simultaneously as a therapy signal!

Bioinformative Medicine therefore occupies an excellent position in the context of:

- **non-specific and specific detoxification or**
- **autogenous immune therapy in the event of chronic infections.**

A treatment concept with endogenous bioinformation has proven itself in particular.

For **non-specific detoxification** there are *endogenous* nosodes of the patient, such as:

• BLOOD

Liver, heart, lung, gall bladder, lymph

• URINE

Joints, kidney, bladder, lymph, spleen,
genital area, skin

- **SALIVA**

Stomach, colon, small intestine, pancreas, head area, joints, mucous membranes, genital area

- **FAECES**

Gall bladder, colon, pancreas, small intestine, stomach, lymphatic congestion

Specific detoxification with the aid of *exogenous* nosodes relates for example to:

- Toxic strains
- Bacterial strains
- Viral strains
- Focus therapy (interference fields)

Autogenous immune therapy in the event of chronic infections

The pulsating magnetic field in conjunction with bioinformation is among other things particularly suitable for strengthening the immune system in the event of acute and chronic infections and metabolism-related allergies, for relieving pain and for activating the hormone balance and the associated physical and mental wellbeing.

Bioinformative Medicine has proven itself for example in therapeutic practice particularly in the case of:

Resistance to / intolerance of antibiotics

Abscesses, acne, other skin infections

Bronchitis

Bowel infections, fungal infections, colitis ulcerosa, Morbus Crohn's

Urinary-tract infections

Otitis

Lesions of the mucous membrane of the oral cavity, inflammation of the gums, parodontitis

Sinusitis

Ear infections

Prostatitis

Vaginal infections

Systemic illnesses

We know that systemic illnesses are in clear proportion to growing toxic, psycho-physical environmental pollution. This can cause acute and chronic illnesses, such as e.g. allergies, skin infections, psychosomatic disorders, migraines, rheumatic and arthritic pain and fungal infections. Dr. W. Ludwig's pulsating magneto-therapy has proven a great success in all these areas.

The pulsating magnetic field brings about an increased supply of oxygen to cells, increased cell metabolism and thus also detoxification. Magneto-therapy leads to an increase in physical and mental capability and in a harmonization of the vegetative nervous system. It encourages circulation of the blood and results in stabilized circulation.

7. Bioinformative Medicine from Dr. Ludwig® offers: “Everything in a single system!”

The Bioinformative Medicine developed by Dr. W. Ludwig® is an independent and highly complex therapy procedure in the sense of regulation and bioresonance procedures.

AMS GmbH can therefore say with perfect justification:

“As a therapist you have everything in a single system!”

or:

“Bioinformative Medicine – the synergistic interplay of different tried-and-tested therapy procedures!”

The technical design of the large and practice devices allows the combination of tried-and-tested procedures of natural healing and alternative medicine in a *single* device.

The simultaneous use of tried-and-tested natural remedies guarantees optimized effectiveness in the sense of synergistic effects!

The indication list of the practice systems (MEDISEND®super /super C super III) features more than 150 program and frequency settings for all kinds of medical conditions / healing treatments in the fields of prophylaxis, regeneration and therapy!

Therapeutic treatment	Treatment ring / location	AUTO / MAN	MOD	Intensity	1st step	2nd step
Basic therapy	Solar ple-xus	AUTO	CON.	10	1-1000 Hz	1-1000 Hz
weak immune system	Solar ple-xus	MAN	5s/5s	10	10 Hz	230 Hz
adnexitis	abdomen	MAN	CON.	1	1,2 Hz	73 Hz
arthritis	focus	MAN	CON.	10	1,2 Hz	7,8 Hz
carcinoma	focus focus	AUTO MAN	CON. CON.	10 10	1-100 Hz	410 Hz
after tooth extraction	focus	MAN	CON.	10	7,8 Hz	7,8 Hz
allergy	Solar ple-xus	AUTO	CON.	10	1-1000 Hz	1-1000 Hz
	focus	MAN	5s/5s	10	3 Hz	330 Hz

8. With the C-Generation AMS GmbH leads the way in the field of complementary medical technology.

With the C-Generation the therapist has

“Everything in a single system”

“The C-Generation saves you plenty of time and money!”

The large and practice devices **MEDISEND® super C**, **MEDISEND® super III**, **WAVE TRANSFER C** and the *portable* small device **METRONOM C** belong to the C-Generation.

The “C” stands for “Communication”, which is established by way of a USB connection between device and PC / laptop and controlled by the **AMScomsystem** software.

The microelectronic structure of the C-Generation has been developed to the extent that analog information can be converted into digital information – so-called **BIOWAVES** – and stored and transmitted.

Naturally all bioinformation can still be transmitted and stored in analog form with the C-Generation devices.

Compared with the tried-and-tested device generation (that is still available) of **MEDISEND® super** and **WAVE TRANSFER**, therapists now have the opportunity with the C-Generation to transmit and store bioinformation (homeopathic substances, nosodes, Bach flower remedies, etc.) on both the **analog** and **digital** levels.

The digitization of bioinformation, together with their storage and transmission via magnetic field, opens up to therapists with the C-Generation a completely new range of features.

The most important features of the C-Generation in conjunction with the **AMScomsystem** control software relate to three areas which are interlinked:

- 1. Person Manager**
- 2. Device Manager**
- 3. BIOWAVE Manager**

Ad. 1 Person Manager

- Management of formal patient data (name, sex, age, address, etc.)
- Management of patient-specific treatment data (“electronic case sheet”, case history, individual treatment measures and programs)
- Management of patient-specific device settings

Ad. 2. Device Manager

- Control of specific device settings
- Storage of patient-specific device settings
- Storage of device setting of generally tried-and-tested, always recurring treatment programs

Ad. 3 BIOWAVE Manager

- Control of device setting with regard to
- Digitization and storage of bioinformation in the form of BIOWAVES
- Creation and management of BIOWAVES files e.g. in the form of:
 - a "digital pharmacist"
 - digital "test boxes"
 - digital exogenous and endogenous bioinformation such as: nosodes, homeopathic substances, phytotherapies, Bach flower remedies, spagyrica
- Transmission of BIOWAVES (via magnetic field) to patient in the course of:
 - testing and/or
 - therapy
- Exchange / sending of BIOWAVES by e-mail

BIOWAVES

With the aid of the **WAVE TRANSFER C** / *AMScomsystem* exogenous and endogenous bioinformation can be digitized, stored and retrieved as required. The digitized bioinformation appears in the highest CD quality! AMS GmbH offers different "packages" of BIOWAVES which can be created by colleagues highly experienced in diagnosis and therapy. (Please contact AMS GmbH directly for further information; a full list of the BIOWAVES can be found at www.magnetotherapy.de)



9. AMS devices: “Made in Germany”: sturdy and easy to use!

The AMS devices satisfy the tag of German workmanship and thus the highest quality standards. The electronic technology is state-of-the-art; the devices are user-friendly, sturdy and extremely durable.

The devices are extremely easy to handle and set. Prolonged technical instruction or device training is not necessary. You can delegate with a clear conscience!



The AMS devices are portable! (Thus ensuring problem-free changing of location or treatment site / home treatment and home visits / in veterinary medicine treatment of the animal “on site” – stable, field, paddock.)



10. The AMS devices are multifunctional and therefore unbeatable in terms of price-performance ratio!

AMS medical technology enables therapists to *integrate, combine* and thus *optimize* tried-and-tested methods of modern holistic medicine / alternative medicine in a *single system*.

AMS medical technology – developed by Dr. W. Ludwig® – stands for holism, multifunctionality and the maximum degree of effectiveness!

Multifunctional means: you have

Everything in a single system!

- Pulsating magnetic field
- Combination of regulation and bioresonance procedures:
 - expulsion therapy, autologous procedures,
 - exogenous and endogenous bioinformation, such as:
 - nosodes, homeopathy, phytotherapy, Bach flower remedies
- Color, light and laser applications
- Acupuncture
- Analog and digital transmission of bioinformation
- Analog and digital storage and creation ("duplication") of bioinformation

The multifunctionality of the AMS devices allows you to:

- *integrate, combine* and thus *optimize* tried-and-tested methods of modern holistic medicine / alternative medicine in a *single system*.
- respond with flexibility at any time to structural changes to the health system.
- qualitatively and decisively improve your practice concept, expand your range of services and at the same time optimize costs.
- achieve greater profitability with lower personnel and investment costs.

**Bioinformative Medicine –
developed by Dr. rer. nat. Wolfgang Ludwig®
guarantees highly effective synergistic effects!**

Further information at: www.magnetotherapy.de

**ADVANCED
MEDICAL
SYSTEMS**

**AMS GmbH
HAUPTSTRASSE 26
D-97990 WEIKERSHEIM**

**Phone: ++49-(0)7934/993489-0
FAX: ++49-(0)7934/993489-44
E-MAIL: info@ams-ag.de
www.ams-ag.de
www.magnetotherapy.de**

Copyright by AMS GmbH 2010

III. The New C-Generation: Bioinformative Medicine Analog and Digital

Regulation therapy – bioresonance procedures – analog and digital storage and transmission of exogenous and endogenous bioinformation

An overview:
The C-Generation



The practice devices **MEDISEND® super C**, **MEDISEND® super III**, **WAVE TRANSFER C** and the small device **METRONOM C** belong to the C-Generation.

The "C" stands for "Communication", which is established by way of a USB connection between device and PC / laptop and controlled by the *AMScomsystem* software.

Installation, handling, user friendliness or menu guidance – with the **AMScomsystem** control software everything is extremely simple and clearly laid out!



Figure: Dr. rer. nat. Frank Beck, Managing Director of AMS GmbH

Dr. Beck, Managing Director of AMS GmbH on the C-Generation:

“The new model series guarantees even more multifunctionality!”

Dr. Beck again: “In short, we can say that with the *AMScomsystem* software you can program your respective practice device **MEDISEND® super C** or **MEDISEND® super III** as required and retrieve “patterns” (frequency settings and sequences, modulation, etc.), and modulate up, test and automatically transmit bioinformation. In combination with the **WAVE TRANSFER C** you can digitize bioinformation yourself, and create, store and transmit via pulsating magnetic field your own biowave files. In addition, the **METRONOM C** can be patient-specifically programmed with a **BIOWAVE**.”

The microelectronic structure of the C-Generation has been developed to the extent that analog information can be converted into digital information – **BIOWAVEs** – and stored and transmitted.

The digitization of bioinformation, together with their storage and transmission via magnetic field, opens up to therapists with the C-Generation a completely new range of features.

Compared with the tried-and-tested device generation (that is still available) of **MEDISEND® super** and **WAVE TRANSFER**, therapists now have the opportunity with the C-Generation to transmit and store bioinformation (homeopathic substances, nosodes, Bach flower remedies, phytotherapies, etc.) on both the analog and digital levels.

The functions of the **WAVE TRANSFER C** also permit an inversion and amplification (factor “2” to “12”) of bioinformation; see brochure.

The WAVE TRANSFER C has all the technical requirements (special Sound-Blaster card, special A/D converter) in order to record and store from any substrate the frequency spectrum in analog and digital form in "CD quality". The biowave file is approx. 1.3 MB in size and thanks to its 16-bit resolution is of "CD quality" (and can thus be exported and imported by e-mail). Since currently every year hundreds of tried-and-tested substrates are disappearing from the market, this "export-import function" is of incalculable importance.

Naturally it is necessary to check in the individual case which device type is more suitable for which practice and treatment concept in the medium and long terms: e.g. the analog and (!) digitally operating MEDISEND[®]super C and MEDISEND[®]super III; or whether the exclusively analog-operating MEDISEND[®]super performs the functions required by the therapist.

C-Generation: Everything in a single system! The AMS GmbH product family at a glance

The diagram (page 43) provides an overview of the capability and the different possibilities of system control and device configuration with the aid of the *AMScomsystem* control software:

What features does the AMScomsystem control software offer?

The most important features of the C-Generation in conjunction with the **AMScomsystem** control software relate to three areas which are inter-linked:

- 1. Person Manager**
- 2. Device Manager**
- 3. BIOWAVE Manager**

Ad. 1 Person Manager

- Management of formal patient data (name, sex, age, address, etc.)
- Management of patient-specific treatment data ("electronic case sheet", case history, individual treatment measures and programs
- Management of patient-specific device settings
-

Ad. 2. Device Manager

- Control of specific device settings
- Storage of patient-specific device settings
- Storage of device setting of generally tried-and-tested, always recurring treatment programs

Ad. 3 BIOWAVE Manager

- Control of device setting with regard to
- Digitization and storage of bioinformation in the form of so-called biowaves
- Creation and management of BIOWAVES files e.g. in the form of:
 - a "digital pharmacist"
 - digital "test boxes"
 - digital exogenous and endogenous bioinformation such as: nosodes, homeopathic substances, phytotherapies, Bach flower remedies, spagyrica
- Transmission of biowaves (via magnetic field) to patient in the course of:
 - testing
and/or
 - therapy
- Exchange / sending of BIOWAVES by e-mail

BIOWAVES

With the aid of the **WAVE TRANSFER C** / *AMScomsystem* exogenous and endogenous bioinformation can be digitized, stored and retrieved as required. The digitized bioinformation appears in the highest CD quality! AMS GmbH offers different packages of BIOWAVES on CD which can be created by colleagues highly experienced in diagnosis and therapy. (Please contact AMS GmbH directly for further information; a full list of BIOWAVES can be found at www.magnetotherapy.de)

With the C-Generation AMS GmbH leads the way in the field of complementary medical technology /

With the C-Generation the therapist has

"Everything in a single system!"

"The C-Generation saves you plenty of time and money!"

**ADVANCED
MEDICAL
SYSTEMS**

**AMS GmbH
HAUPTSTRASSE 26
D-97990 WEIKERSHEIM**

**Phone: ++49-(0)7934/993489-0
FAX: ++49-(0)7934/993489-44
E-MAIL: info@ams-ag.de
www.ams-ag.de
www.magnetotherapy.de**

Copyright by AMS GmbH 2010