

THE PHYSIOLOGICAL BASIS OF SCENAR

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One of the main aims of medicine that has been developed and studied for thousands of years is the mobilization of inherent body healing whilst using minimal medication.

Skin electrical properties are directly correlated with the body organs and systems. As a result, the skin of any living body can be regarded as a source of information concerning the condition of the internal organs and tissues. The main peripheral informational elements of the skin are biologically active points characterized by their increased sensitivity to any external action.

External actions upon the skin enable corresponding influences upon the disordered organs and functional systems. Present-day clinical observations prove that malfunction of an organ may be eliminated by the appropriate action upon related reflex areas of the body.

SCENAR therapy can be effectively applied to treat functional disorders such as headaches (caused by brain vessels spasm, over-strain and contusion), nervous exhaustion, depression, pain syndromes of neurological character, muscle spasms, initial stages of any inflammatory processes and impotence caused by nervous exhaustion. SCENAR® will also increase the action of stem cells to repair and maintain damaged tissues such as ligaments, muscles, tendon, bones and damaged organs with minimal scar tissue.

However, there are limits to even SCENAR® therapy! Although success rates are very high it is not a panacea. Its action is aimed at normalization of disordered body functions, whilst providing harmony in the body and stimulation of its defense potential. It can only mobilize reserves that are already present. In many, but not all conditions this is sufficient to bring about a "cure".

If considered as a biological object, the mammalian body is an organized complex of functionally related cells, tissues, organs and systems. Their inter-relation provides vital functions for the body as a whole under constantly modifying conditions.

A mammalian body may also be considered as a unit of subsystems with a certain hierarchy of feedback. As well as responding to internal feedback, the body must constantly interact and react to a constantly changing environment whilst trying to maintain optimum internal function. Every functional system of a living body - from the central nervous system to cells and their intra-cellular parts - is involved with controlling, executing, and monitoring the body-environment integration and feedback systems.

The control of every system can be performed in two ways: changing its structure or changing the conditions under which it functions. The first way is rather complicated.

The second is open to external beneficial influences with SCENAR®. This influence is aimed at restoration of the optimal activity of cells, tissues, organs, and systems of the body. Restoring efficient homeostasis releases significant body reserves to maintain the system in its correct function.

For a long time the skin has been considered to regulate various physiological functions. By influencing different reflex areas it is possible to eliminate pain, cramps; increase or decrease metabolism; accelerate or decelerate cardiac rhythm etc. The nervous system adapts the body and

its systems according to what it senses in the external environment. The body's reaction is therefore dependent on the area of skin influence. Certain areas of skin have been identified with an increased physiological sensitivity which form the basis for treatment of various disorders by SCENAR® therapy methods.

The most complicated engineering projects (e.g. spaceships) are crammed with thousands of sensors and receptors controlling and monitoring units, modules, etc. The skin has many times more sensors and receptors collating minute data, concerning all the processes in the internal organs and systems with regard to their condition, and in relation to important information received from the environment. The skin perceives external signals significant for vital activity of the body and to control any internal system malfunction.

The skin therefore indicates the condition of all the internal organs and regulation systems. After proper processing, this information provides a full view of the functional state of the body. Changes in the body are possible on both the energetic and informational levels. The action can be conducted upon both systems and their inter-relation. Acting on the informational level is more accurate and universal since it promotes greater control of all processes.

The skin has a unique ability to combine the functions of diverse sensors and receptors to enable differentiation of different physical stimuli. For example, it can differentiate signals as mechanical (acupuncture and massage) or thermal, electric current, magnetic field, biological field, laser, or ultrasound. Having differentiated the stimulus at the skin, the nervous system relays this information to the body's control centers.

Significantly for SCENAR® therapy, the quickest way to transmit information is in the form of electrical signals. Transmission of the signal vibrations also occurs through cellular membranes themselves which is a slower and less studied way.

An external influence may be amazingly small and its energy is unequal to the body response. Typically, there is a total organism reaction, because the whole body is involved in the response to the information. The skin acts as an input circuit to a hypersensitive power amplifier, i.e. the body. Physiologists have demonstrated that the reticular formation in the center of the brain, which is our energy center, amplifies signals of any origin received by our body. The input signal level is extremely small, but being a control signal, it causes significant energy changes in the body powered by the reticular formation. It is known that malfunction of any organ causes changes in electrical conduction, capacitance and temperature of reflexive areas of the skin. Increased skin sensitivity manifests in pain on contact.

This alteration of signals from the input to the output of the skin testifies to the perfection of the creations of nature. When informational processing can be automated with computers, humanity can carry out a profound study of the body and create efficient drug-free methods of treatment.

As a rule, biological processes are accompanied by electric currents of very low voltage. Thus, to act upon biological processes occurring in a mammalian body, it is expedient to apply electric signals in the form of μ currents of low voltage, with parameters similar to the currents accompanying biological processes. Electric currents in the μ ampere range provide a reflex action upon the central nervous system which enables vital processes to be influenced at the cellular level by stimulation and inhibition, transferring charges or ions, and, sometimes, by destruction or creation of individual cell formations.

In the past, such actions have been attempted by various devices providing continuous low voltage direct current in the μ ampere range, or alternating currents of certain frequency and intensity. In contrast to this, SCENAR® therapy acts upon the body with voltage pulses similar to biological ones. The action is focused on harmonization of the body's vital activity and stimulation of its defensive potential by invoking the body reserves.

One should always bear in mind that our body is coded for maintaining its homeostasis, i.e. coordination of organs and systems. Simply through promoting this homeostasis, SCENAR® has proved effective in the treatment of functional disorders. The amazing results of SCENAR® treatment of various acute and chronic conditions are hardly explainable from the scientific point of view, but facts are stubborn things - patients recover! This may be explained by the following:

1. Information in a human body is transmitted in the form of short bipolar pulses of electric current and not direct current.
2. The skin along with its sense organs and received stimuli constitutes an information field connecting the external environment and complicated processes occurring inside the mammalian body.
3. A mammalian body can be considered as a hierarchical system with a number of feedback, which exist on every level and are inter-related both across and down. This provides self-regulation, connection with the external environment, and enables a whole organism reaction based upon changes in the environment.
4. The internal environment is focused on preserving its homeostasis.
5. That is why the continuously adjusting system of a mammalian body responds most beneficially when acted upon by a similarly self-regulating and adjusting system, like SCENAR®.

The manner in which SCENAR® operates could be argued to support the hypotheses of a unified theory of disease origin. Two similar systems - a body and SCENAR® - can cooperate with each other. Of course, the body is the leader in this interaction, with SCENAR as a means of initiating body commands and providing help. Such harmonious cooperation contributes to the considerably successful treatment of many diseases and pathological conditions with SCENAR® devices.