SWIT Neurobalance©

for horses, dogs and us

SWIT+

Relax · Reload · Repower

SWIT Neurobalance©

Smart Wave Intelligent Technology

Autonomic nervous system

Besides the central nervous system, the brain and spinal cord, the autonomic nervous system is the autonomous control unit of our body.

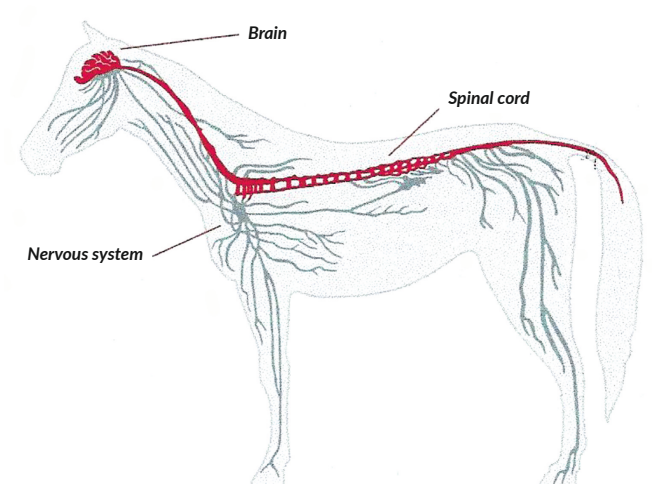
It controls all the vital organs and vital functions in the body without engaging the consciousness or the will and also adapts the organ functions to the specific requirements and stress factors.

These include the blood supply to the brain and all internal organs as well as the sensory organs (eyes, hearing, senses of balance, touch and taste), the heart and lungs, the digestive system as well as the liver, intestinal activity and the kidneys, ureter and bladder and, in addition, the function of the blood vessels, the salivary glands and the endocrine glands including the pituitary

gland, pineal gland, thyroid gland, parathyroid gland, thymus gland, pancreas and the gonads. This ensures the body's defences (immune system) and control of the body's internal environment with the aim of maintaining biological equilibrium (homeostasis).

Structure of the nervous system

Structure of the neural tissue



The neural tissue consists of nerve cells and supporting and sheath cells. As the smallest functional unit, the nerve cell is called a neuron. It consists of the cell body and its protrusions.

Protrusions (nerve fibres) consist of two types: axons that are usually long and transmit the excitation from the nerve cell to other (nerve, muscle, glandular) cells and numerous dendrites that receive excitation from the other nerve cells.

The axons of the nerve cells usually end at synapses. Synapses are communication points between different nerve cells or between the nerve cell and organ or tissue.

Illustration oben links: CSA-Archive, iStock

Sympathetic versus parasympathetic nervous system

The autonomic nervous system functions through two anatomically separate main nerve cords – the sympathetic nervous system and its counterpart, the parasympathetic nervous system. In healthy living organisms, these two nerve cords are in biological equilibrium. This equilibrium is, however, very sensitive and can be quickly disturbed by many different influences.

- Psychological overload due to pressure to perform, existential fear, mobbing
- Physical strains and poor postures
- Overloaded detoxification organs: the liver, kidneys, intestine, skin and mucous membranes

SWIT **Neurobalance©** is designed to maintain the biological equilibrium.

The sympathetic nervous system puts the body into a state of higher alertness and readiness to flee, whereas the parasympathetic nervous system brings the body into a state of rest. The sympathetic nervous system is not an organ that is located in a specific place in the body, such as the heart or liver, but is distributed throughout the body.

In comparison

Sympathikus

- Heart rate increases, coronary arteries dilate
- Blood vessels constrict
- Blood pressure rises due to constriction of the blood vessels
- Relaxation of the lungs, the bronchi dilate
- Digestion is inhibited
- Reduced urine excretion, antidiuresis
- Restrained urination
- Pupils dilate

Parasympathikus

- Heart rate decreases, coronary arteries constrict
- Blood vessels dilate
- Blood pressure drops
- Contraction of the lungs, the bronchi constrict
- Digestion is promoted
- Urinary excretion, diuresis
- Urination
- Pupils constrict

SWIT Neurobalance©

SWIT **Neurobalance©** sends rhythmically changing signals of a biologically harmless frequency band to the central nervous system of the horse, dog or human, thus supporting the body's own 'neurobalance'.

SWIT+ a simple and convenient way of stimulating the 'inner balance' in people and animals according to the situation and of responding to physical and mental demands or irritations in a self-reliant, bio-compatible and effective way.

We have been able to demonstrate the measurable effects of SWIT+ in several neurobiological EEG studies on humans and horses and the world's first and, to date, only scientific EEG study in 2015 on 17 dogs in a statistically significant manner.

For your safety and the safety of all living creatures.
SWIT **Neurobalance©** was developed for maintaining our biological equilibrium.

Horsepro horse blanket

An effective neurobalance is a reliable basis for recovery and performance appropriate to the situation, especially in our fast-paced and constantly changing world.

The relevant areas of the brain are put into a ‘basic state’ after a relatively short period of use. The autonomic nervous system can realign itself and the organism can adapt better and better to specific requirements over time and depending on the situation.

Also, due to the low amplitude (strength) of the signals used, no external heat source is created in the tissue, so that the range of applications – especially after injuries and in active regeneration processes – does not have to be restricted.

Five programmes

If the animal does not feel well, is in pain, stressed or out of balance, the sympathetic or parasympathetic nervous system is over-activated or under-activated.

The organism cannot come to rest or is not able to perform at its best when it is needed.

SWIT **Neurobalance©** starts exactly there. The nervous system reacts to these signals and thus gently guided in the right direction.

It supports the body in becoming active itself and restoring its natural balance.

It is ideally suited to give our animals the right impulses for relaxation after every effort, during regeneration, in turbulent environments, in stressful situations and in case of pain, to keep them in top shape before training or competition.

Calm – relax

SWIT **Neurobalance©** is particularly gentle for animals and humans and very well tolerated.

Balance through targeted impulses

› The inner balance in the body is determined by complex systems of vital functions: Breathing, heartbeat, muscle tone operate together depending on the performance needs.

In the complex system of vital functions, individual influences would otherwise lead to imbalances.

Regenerate – vitalise

Stimulation of the individual vital functions does not directly change any deeper levels of the body such as cells, tissue or blood, as the matter is dealt with at the next higher level, such as the control of the autonomic nervous system.

Key vital functions

- Blood pressure and cardiac activity
- Breathing rate
- Body temperature
- Digestion and metabolism/ energy balance
- Water and salt balance
- Lymphatic system

Important parts of the hormonal system

- Protein production
- Calcium balance
- Muscle condition (tone)
- Stability of the nerve pathways
- Blood coagulation factor
- Reproductive ability

Activate

“My horses are supported daily by the SWIT Neurobalance© products. Since then, especially “highly strung” horses are clearly more relaxed and concentrated as well as more balanced.”

Maxi Lill, Showjumper

“My 16-year-old stallion is much more relaxed and focussed on his work since he has been supported daily by the SWIT products.”

Verena Scholl, 2-time European Champion in reining and ranch riding

In therapy and training

SWIT+ systems in dog sports

If you feel a pull in your neck or twinge in your back, you are grateful for the experienced hands of your physiotherapist. A few targeted grips can already bring relief.

What has long been a proven method of treatment for humans has also found its way into treatment for our four-legged friends.

Tension, blocked joints or digestive problems inhibit performance.

A healthy animal or person is the foundation of all athletic training.

Exceeding performance limits and ensuring the optimum training effect with the right regeneration.

We and our animals are geared to support healing processes by equalising the energy balance.

Only a living being's own body has the ability to heal itself – SWIT+ supports it in doing so

Stimulation of the musculature releases tensions and blockages so that you or your animal can move freely again.

Preventive use to avoid illnesses and injuries.

Puts muscles, organs and nerves into a harmonised state and, thus, has an indirect positive effect on:

- **Joint problems**
- **Hoof problems**
- **Colic**
- **Blockages and tensions of the musculoskeletal system**
- **Painful conditions**
- **Sensitivity disorders**
- **Nervous states of agitation**

Signals are sent from the affected sites, processed in the brain and then activate the corresponding genes in the cells.

Activating the genes causes proteins to be produced, which then help the vital functions to recover more quickly.

SWIT Neurobalance© also for humans

Our physical and mental potential is dependent on the energy flow in the body.

If the energy flow is blocked, whether due to mental overload, pressure to perform, physical blockages or lack of exercise, our full performance potential can no longer be achieved.

- Muscular tensions
- Digestive problems
- Sleep disorders
- Irritability
- Lack of concentration

Using physical and mental resources without depleting them, only in this way is it possible to achieve optimum performance over a longer period without harming the body.

SWIT+ systems are designed to support the energy balance.

Our products at a glance

SWIT+ HorsePro

Horse blanket with neck applicator and touch control. Two belly straps and a chest strap. Covers the entire horse up to the neck, easy to handle and use. Also available in pony size.

SWIT+ HorseLine

Power belt with touch control and belly strap. Small and handy for hot days or at a tournament or competition, during transport. Also suitable for smaller animals such as goats, alpacas, mini ponies or foals.

SWIT+ HorseLine

Forequarters/hindquarters gaiter set with touch control and bag. The gaiters can be used on the horse's forequarters and hindquarters. To support stressed legs that are exposed to high loads. For prevention and wellness.

SWIT+ HorseLine

Ankle/spavin gaiter set with touch control and bag. Prevention, support and wellness.

SWIT+ DogJacket

The dog coat with touch control available in different colours and sizes.

SWIT+ DogBlanket

Dog mat with touch control and bag. Available in different colours and sizes.

SWIT+ Human

Sports waistcoat, New Line inlay, touch controller. Available in different sizes for women and men.

Powerbelt Human

Comfort/sport human belt, touch controller. Available in different sizes.

Photos: www.mf-bildarbeit.de

SWIT+ in research

Dr. rer. Nat. Evelyn Schürg-Pfeiffer at the FIAE Institute

The vegetative autonomic nervous system in humans and mammals is primarily formed from two systems – the sympathetic and the parasympathetic nervous systems.

The activating, performance-enhancing sympathetic nervous system also ensures increased blood flow and oxygen supply to muscles and organs in stressful and dangerous situations. At the same time, this leads to an increase in the attention focussed on the situation.

Its antagonist – the parasympathetic nervous system – dampens this function and leads to rest and relaxation.

The normal state is a dynamic balance of the two counterparts (homeostasis). The interplay can be disturbed by physical and emotional stresses.

It is possible to positively influence such a blockage – depending on the cause and course – through the neurobalance system of SWIT+.

Thus, when digital electroencephalography was used to apply the system to humans and horses, a clear/significant effect was demonstrated with regard to brain performance: Attentional states are measurably influenced during the application of the neurobalance system.

› **The results of the research at the Falkenberg Institute by Dr. Schürg-Pfeiffer with 26 horses have been incorporated into our development and implemented in our production.**

Photo: Iakov Filimonov, Freepik

From us – for you and your animals

Attention to detail, craftsmanship and constant improvement through practical experience are the pillars upon which our success rests.

We first test our patented systems on many users with high demands, in order to provide you with robust quality that is suitable for everyday use.

Developed, designed and made with love in bavaria!

More information about SWIT Neurobalance© and sales via:

SWIT+

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