

TREATMENT HANDBOOK

All about operating the BCR Premium and its treatment programs



BCR[®]
PREMIUM



INTELLIGENT WELLNESS SYSTEM

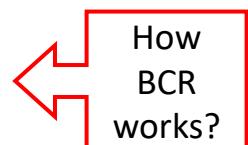
Germany



TREATMENT HANDBOOK

CONTENTS

Disclaimer	4
Modes of Application	5
The Basics of Application	6
Applying the Electrode Gel Pads	6
Systemic (whole body) Application	7
Hand Electrode Application	8
Cell Light Application	9
Interpretation of treatment results	11
Treatment Programs (index with pages)	12
Treatment Programs (detailed description)	13
ABOUT BCR [®] (What is BCR and how it works?)	42



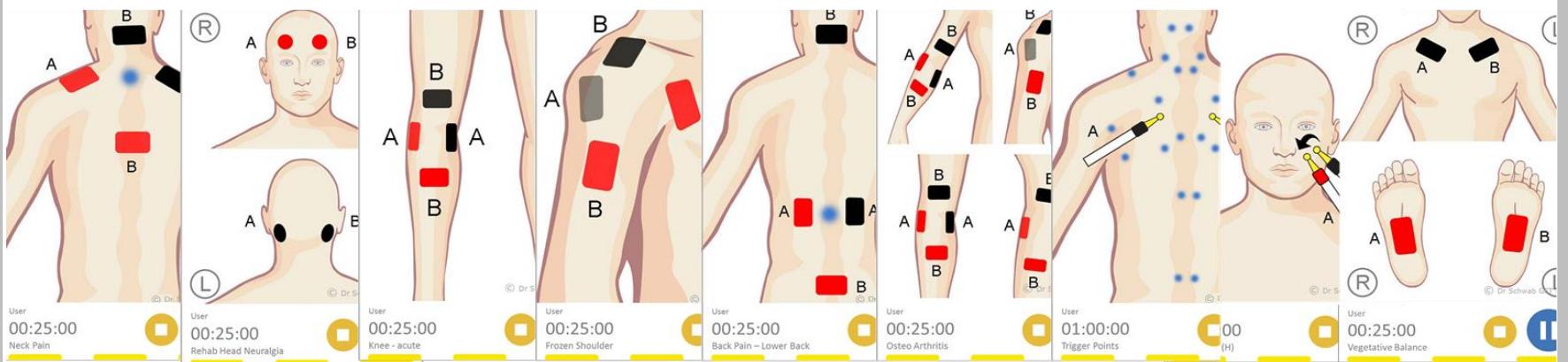
!!!CONFIDENTIAL!!!

Copyright

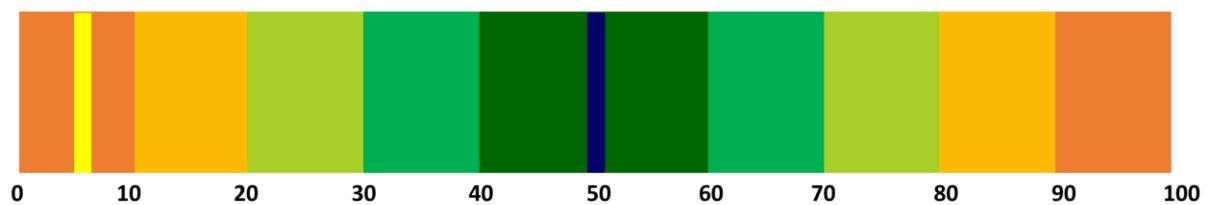
© Copyright 2020, BCR Therapie (Singapore) Pte Ltd. All rights reserved. This manual or any portion thereof may not be reproduced or used in any manner whatsoever without the express written permission of the author except for the use in brief quotations in a review. BCR Therapie (Singapore) Pte Ltd shall not be liable for any damages, losses, costs or expenses, direct, indirect or incidental, consequential or special, arising out of, or related to the use of this material or the products described herein. The information in this document is subject to change without notice. The manufacturer makes no representations or warranties with respect to the contents hereof and specifically disclaims any implied warranties of merchantability or fitness for any particular purpose. The manufacturer reserves the right to revise this publication and to make changes from time to time in the content hereof without obligation of the manufacturer to notify any person of such revision or changes.

TREATMENT HANDBOOK

All about operating the device and the treatment programs



BCR-Index





Disclaimer:

BCR-Therapie system used in **BCR Premium** device is a Holistic and Alternative therapy system and do not serve as a substitute for professional medical advice, examination, diagnosis or treatment.

Brief Description

The device **BCR Premium** (production code **MSTU 100**) is a therapy system of the electrotherapy category **Biological Cell Regulation (BCR)** for the generation of micro currents and LED-light and belongs in the category of 'electrotherapy devices' and 'LED light therapy devices'. It is the latest development of microcurrent devices by Dr. Schwab Gesellschaft für Technologieberatung mbH / GERMANY.

Dr. Schwab Gesellschaft für Technologieberatung mbH has more than 20 years of experience with the development and production of microcurrent devices for market leading brands like Power2Cell and its predecessors.

The microcurrent and light parameters are determined by programs, which are loaded into the device via a USB data storage medium.

A main area of use for the application of microcurrent is in the field of Preventive Healthcare, Pain, Wound Healing, Sports and Beauty.



READ!

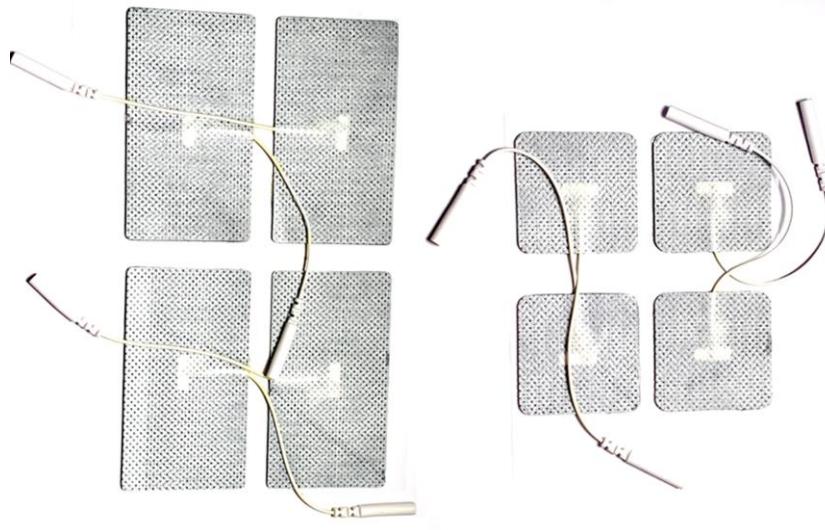
Please read the TECHNICAL HANDBOOK for
Technical Specifications and Safety Instructions.

Modes of Application

The Premium can be applied in three ways ;

1. Gel Electrode Pads,
2. Hand Electrodes
3. Cell Light applicator.

1. Gel Electrode Pads



2. Hand Electrodes



3. Cell Light Applicator



NOTE:

- Programs with (H) are for use with Hand Electrodes only.
- All other programs can be applied using Gel Electrode Pads, Hand Electrodes and Cell Light Applicator.

The Basics of Application

Applying the Electrode Gel Pads

A-channel and B-channel

A-channel is the 'Therapy' channel and B-channel is the lymph drainage channel. A-channel is always applied over the target area to be treated. The treatment by A-channel regenerates cells and creates waste. The function of the B-channel is to disperse this waste. The application of B-channel is as a cross over the A-channel or covering the area treated by the A-channel.

POSITIONING GEL ELECTRODE PADS

Assume that you want to treat the area in blue in the picture on right. Each cable splits into two wires (positive and negative) indicated with the colours red and black.

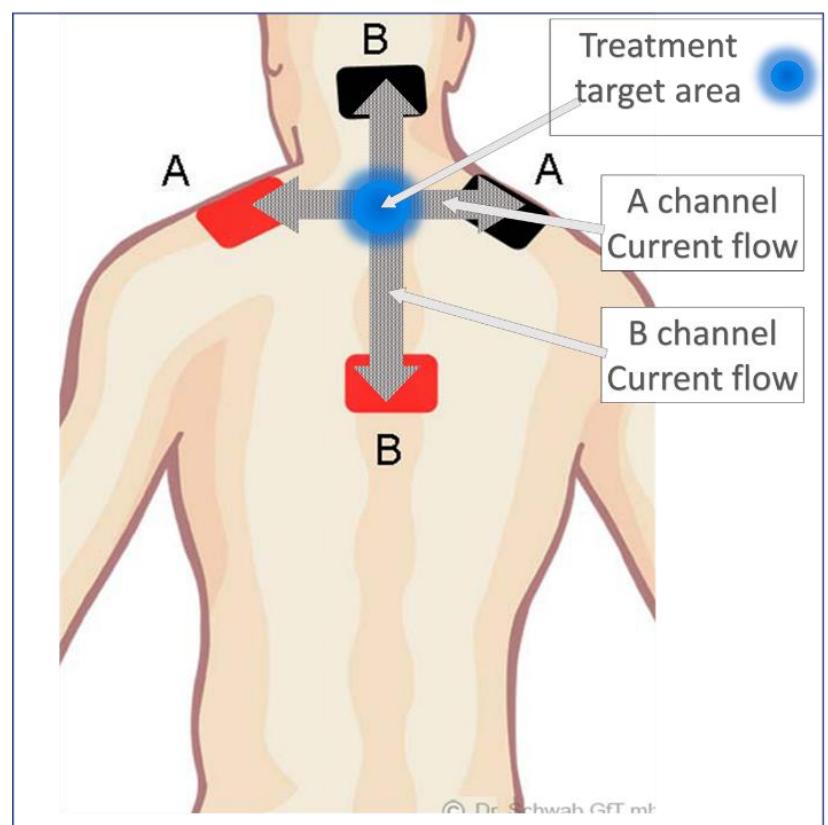
Apply the wires connected to 'A- channel' to both sides of the target area to treat. This application will run the treatment between these two points A (red) and A (black). Then apply the 'B-channel' to form a cross against 'A-channel' (as in the picture).

We may call this the treatment cross. It can be a '+' cross or 'x' cross or a 3-dimension cross through the body. The target area for treatment should fall around the intersection of the two pathways. Always remember to create the intersection of the two channels at the centre of your symptoms.

When the placement of the electrodes is complete, just select a program from the device that has the closest match to the condition you want to treat, and start the treatment.

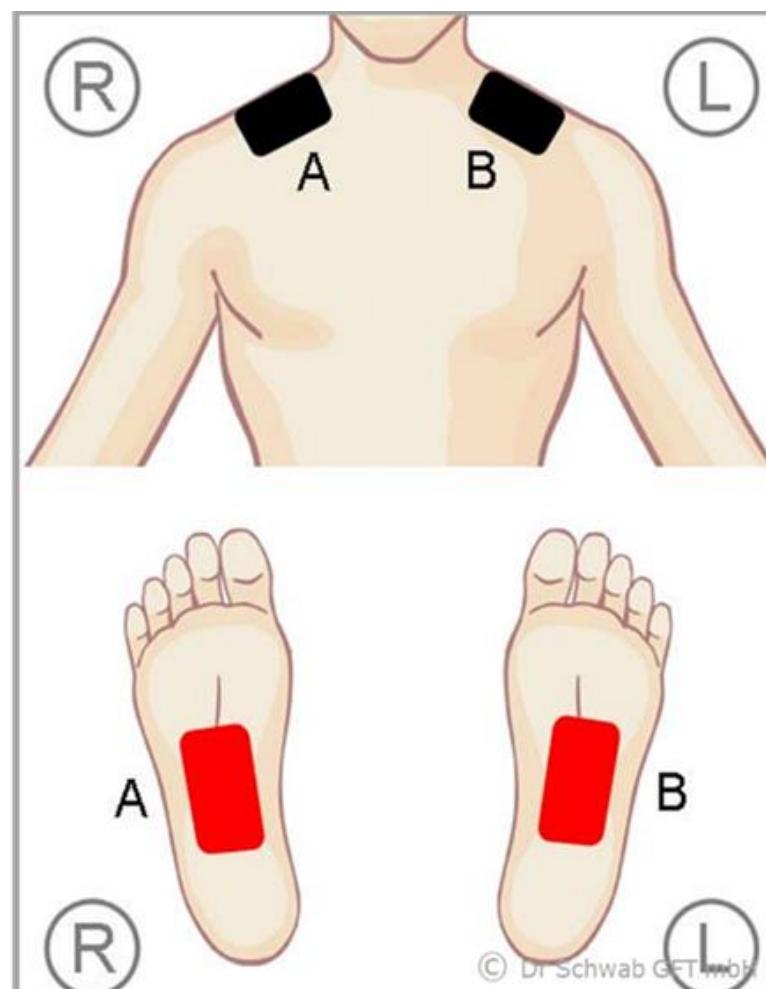
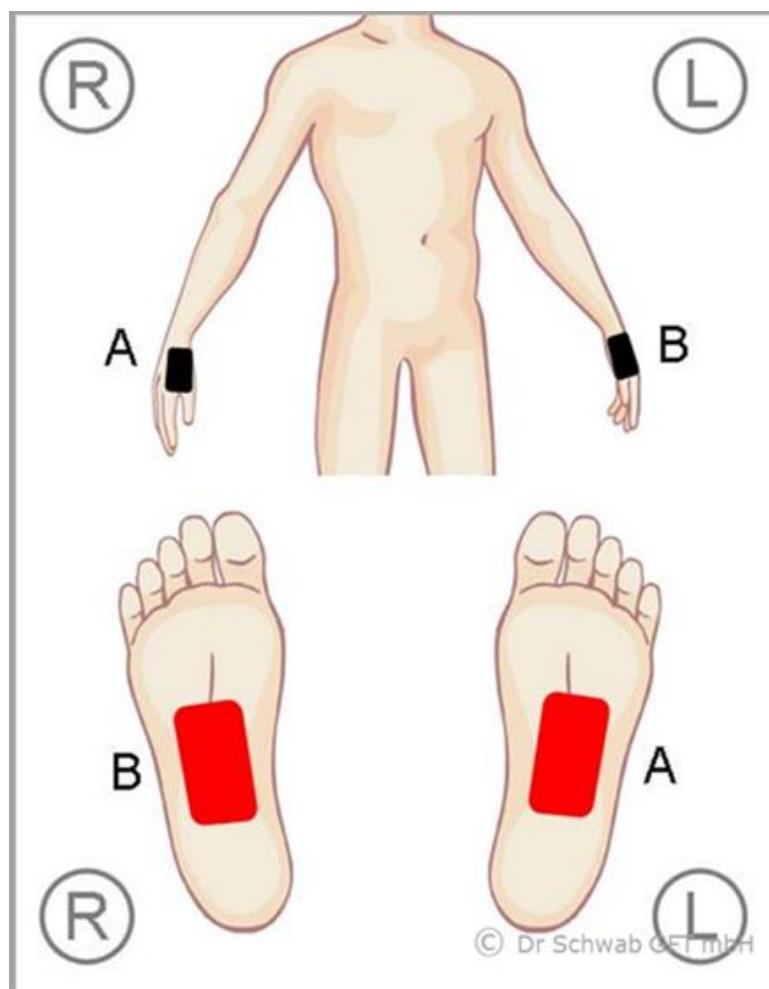
You may use pictures in the screen to position the pads. You may also improvise the pad placements based on the actual condition you want to treat. As long as the target area for treatment falls within the treatment cross you created with your pad placements, and you have chosen the closest matching program, the treatment will be effective.

It is useful to note that, in the case of pain problems, some pains are 'referred pains', meaning that the area where the pain is felt may not be the actual area of the underlying problem. Try to research, locate and treat the source for an effective result.



Systemic (whole body) Application

These are the recommended systemic applications. This is used for most Preventive Wellness programs.



- Systemic or whole body application is used mainly for wellness and preventive healthcare applications.
- Some application programs that can also be used systemically are Lymph Drainage (Lymph – Fat Burn), Detoxification and Inflammation (Inflammation – Liver, Inflammation – Stomach).
- Using the program Muscle Pain systemically may be helpful for Fibromyalgia patients.

! INFORMATION:

Arndt-Schultz Law

- Weak stimulus activates biological functions
- Medium stimulus modulates biological functions
- Strong stimulus inhibits biological functions
- Very strong stimulus blocks biological functions

! INFORMATION:

BCR delivers extremely low electrical stimulation that is biologically compatible to work at the cellular level. Often you don't feel anything. It is estimated that 30 minutes of microcurrent application gives the cellular stimulation equivalent to four hours of massage. The intensity of BCR's weak stimulus is high at the cellular level.

Hand Electrode Application



Connect the hand electrode to A-Channel always. Select the program and start the treatment. The application works only when the tips of both the electrodes are touching the skin. Gently move both the tips around the target area while keeping the contact with the skin. It is normal to have a tingling feel. This feeling may sharpen when the tips are at same point in the skin in a stationary position. It is good to keep moving the tips always. If its too painful, some water can be applied to the skin. Water also helps with smoother gliding when there is friction. A conductive gel may also be used. Another option to reduce too much pain is to reduce the current intensity to 75% or 50% in the treatment screen.

Although most programs run for 25 minutes, there is no fixed time for hand electrodes. Hand electrodes can be applied for as long as you feel comfortable, and repeated regularly for faster result. Often a short treatment of about one minute can show results.

The usage of Hand Electrodes is most effective when treating problems at the skin level. This includes aesthetics, muscle treatment and scars. It can also be used on all other conditions. Note: Please do NOT use oil-based gels as the electrical conductivity may be compromised.

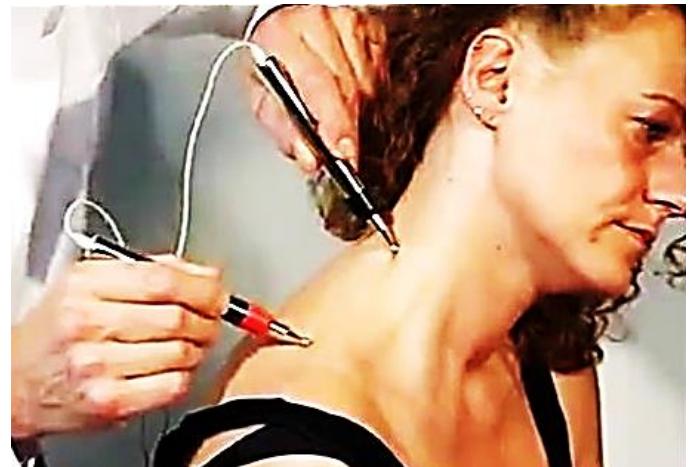
On Aesthetic Facial this gives very fast results on muscle lifting and an instant glow. With several repeat sessions good results are also seen in Acne Scars and Wrinkles.

Tip: This device is so effective in aesthetic facial that you can operate a business.



Excellent results on muscle and skin problems. Use hand electrodes for a few minutes after gel pad treatment on muscles. If you are in a hurry use only the hand electrodes.

Tip: You can grip one tip with your palm and use the other tip on Trigger Points and Acupuncture points. Use the Trigger Point program for this.



Cell Light Application



The **CELL LIGHT** is a non-invasive and non-burdensome accessory for the **BCR Premium**. The electronics of the **BCR Premium** allow for the modulation of the Red and Blue LEDs, integrated into the **CELL LIGHT**. The light source is modulated according to the frequency that is output by channel A. The brightness of the light source is also dependent on the amplitude of the current from channel A. When the current polarity is positive the light source generates **RED** light at a wavelength of 625nm, and when the polarity is negative it generates **BLUE** light at a wavelength of 465 nm.

The light hand piece is to be connected to socket "L" of the BCR Premium. Cell Light is useful for treating Pain and Internal Scar Tissue. Using the Cell Light during all pain treatments has an added effect. It can also be used on its own for quick pain relief.

The light source is modulated according to the frequency that is output by channel A. The brightness of the light source is also dependent on the amplitude of the current from channel A. Therefore, for the treatment delivery to respond to biological feedback, channel A must also be connected to the treatment area.

The power of the light emitted by the **CELL LIGHT** was determined according to the rules of IEC 62471 and DIN EN 60601-2-57. It falls into the 'free group', which precludes a photobiological danger to the eyes. However, it is recommended not to look directly into the source of light.



BLUE LED LIGHT

- ✓ Regulating inflammation
- ✓ Releasing Nitric Oxide (NO)
- ✓ Promoting blood flow
- ✓ Improving oxygen supply
- ✓ 465 nm



RED LED LIGHT

- ✓ Increasing intracellular ATP
- ✓ Improving cell activity
- ✓ Increasing cytochrome C oxidase
- ✓ Increasing DNA, RNA activity
- ✓ 625nm

Cell Light is useful for treating Pain and Internal Scar Tissue. Just point it on the treatment target area.

Using it during all pain treatments has an added effect.

It can also be used on its own for quick pain relief.

Apply Cell Light directly over target area.

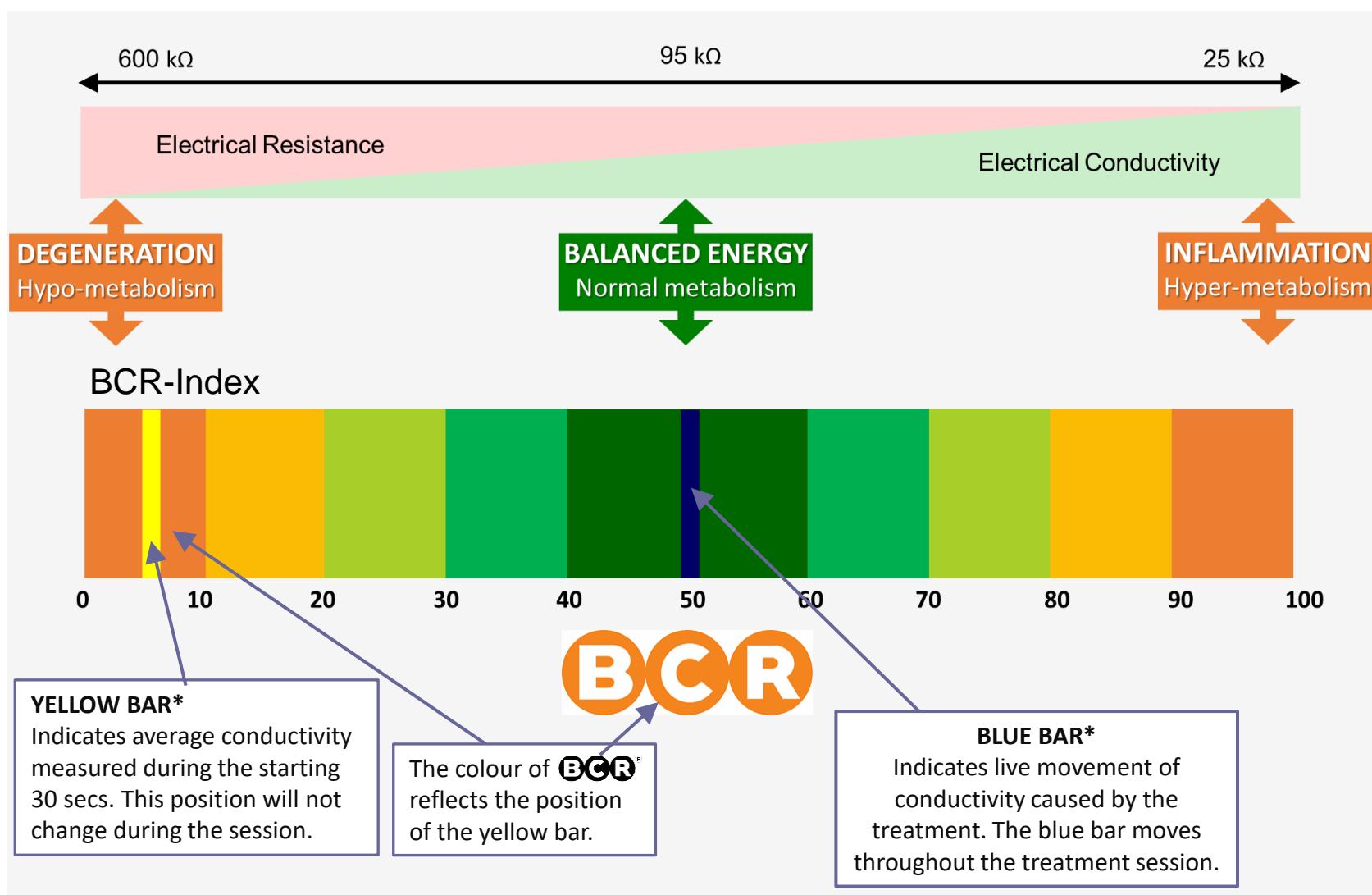


Interpretation of treatment results

What is the result the treatment aims to achieve? What is the ongoing progress towards achieving that result? These are the information that can motivate a user to use this device for the first time, and many more times thereafter.

The Target treatment result

The diagnosis in BCR system is inspired by Dr Voll's theory linking bioelectrical measurements to the pathology in the body. A reading of bioelectric impedance is taken between 25kΩ to 600kΩ. The treatment target is to achieve the resistance of 95kΩ which represents the balanced energy point where the body is able to self-heal and self-repair the affected tissue or organ.



YELLOW BAR*

1. If the YELLOW BAR is at the point of 50 at the start which indicates there is no bad pathology, you may need to shift the position of the electrode stickers till you get the worst position. These readings are to test bad conditions, not to test how healthy you are. In healthy tissue the resistance can easily fluctuate with current flow making measurements difficult.
2. Ideally treatments must be repeated till the YELLOW BAR reaches the point of 50 where the BCR logo turns dark green.
3. What does it mean when the BCR logo turns dark green (the YELLOW BAR reaching the point of 50) after repeat sessions? It means the area of application has reached the balanced point of 95 kΩ where pain subsides and the body regains the ability to self-repair and heal. Extent of healing will depend on the pathology and the duration at the balanced point.

BLUE BAR*

1. The BLUE BAR shows the treatment. It must always move away from the YELLOW BAR and move towards the middle point of 50 (or beyond 50) on either direction.
2. Selecting the wrong treatment program may move the BLUE BAR towards 0 or 100 instead of towards the point of 50. In this case please stop and try another treatment program. This way it is easy to find the correct treatment program for the ailment.
3. What does it mean when the BLUE BAR reaches the point of 50 during the treatment session? It means the area of application has during treatment reached the balanced point. It indicates the treatment was good. It does not mean the body can sustain that point. The YELLOW BAR reaching the point of 50 with repeat sessions is a more reliable indicator.

Treatment Programs

 PAIN	 INJURY	 FITNESS	 BEAUTY	 PREVENTIVE HEALTHCARE
Back Pain – Upper Spine (13)	Bruise (21)	Energy Mode 1 (25)	Belly (28)	Alkalisation (34)
Back Pain –Lower Back (13)	Contusion (21)	Energy Mode 2 (25)	Cellulite (28)	Asthma (35)
Carpal Tunnel (14)	Distortion (22)	Muscle Relaxation (26)	Face – Cheeks (29)	Blood Circulation (35)
Epicondylitis (14)	Fracture – Arm (22)	Muscle Treatment (26)	Face – Cheeks (H) (29)	Detoxification (35)
Frozen Shoulder (14)	Fracture – Leg (22)	Muscle Warm-Up (27)	Face Toning (29)	Immune System (36)
Heel Pain (15)	Fracture – Vertebral Body (23)	Muscle Cool-Down (27)	Face Skin (H) (30)	Inflammation – Liver (36)
Hip (15)	Ligament Injury (23)	Stimulation (27)	Face – Skin (30)	Infection – Virus (36)
Inflammation – Achilles (15)	Pulled Muscle (23)		Face – Relax (H) (30)	Infection – Paranasal (37)
Joint Pain – Acute (16)	Swelling (24)		Face – Relax (31)	Infection – Face (37)
Joint Pain – Chronic (16)	Tendon Injury (24)		Face – Lifting (H) (31)	Infection – Herpes (37)
Knee – Chronic (16)	Wounds (24)		Face – Lifting (31)	Inflammation – Stomach (38)
Knee – Acute (17)			Face – Eyes (H) (32)	Lymph – Arm (38)
Migraine 1 (17)			Face – Eyes (32)	Lymph – Leg (38)
Migraine 2 (17)			Lymph – Fat Burn (32)	Rehab Head, Neuralgia (39)
Muscle Spasm (18)			Rejuvenation 2 (33)	Rehab Head, Spine (39)
Muscle Pain (18)			Rejuvenation 1 (33)	Rehab Stimulation upper (39)
Neck Pain (18)			Scars (33)	Rehab Stimulation lower (40)
Osteo Arthritis (19)			Wrinkles (34)	Rehab Stimulation body (40)
Rheumatoid Arthritis (19)				Rehab Speech, Swallowing (40)
Tendon Irritation (20)				Vegetative Balance (41)
Tension – Leg (20)				
Trigger Points (20)				

INFORMATION:

Keeping all items inside the hard casing during treatments help prevent misplacing the items.



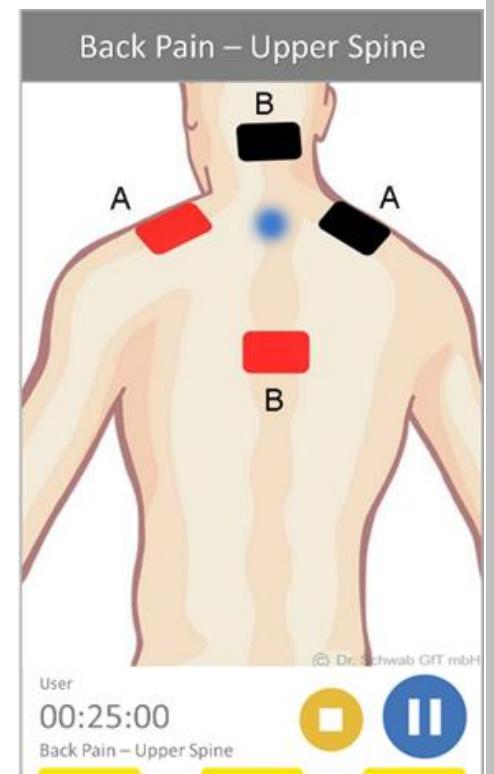


Back Pain – Upper Spine

Back pain – upper usually comes from sore muscles or from signs of injury or wear and tear of the spinal column and/or intervertebral disc damage. Sometimes the pain radiates into the hands.

This program is for spine and nerve related pain conditions including spondylitis. It is recommended to additionally use muscle programs, example Neck Pain, Muscle treatment, Muscle Spasm or Muscle Pain using Hand Electrodes for 5 minutes.

When applying the electrodes as in the picture, the position of A can be higher or lower depending on the main pain area.

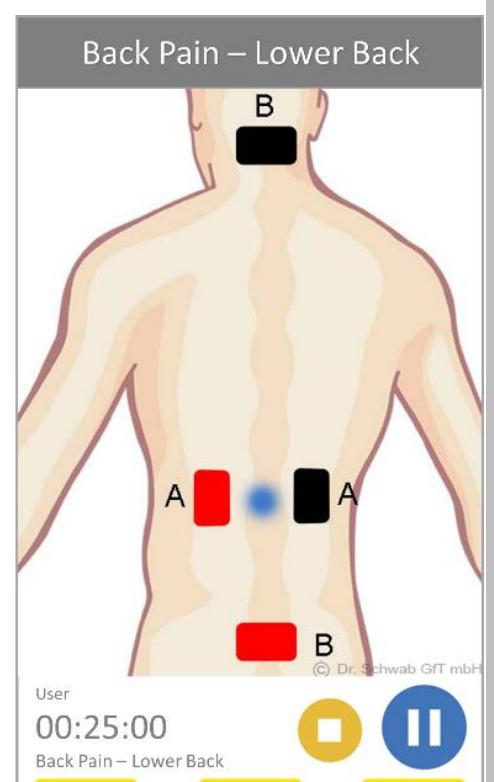


Back Pain – Lower Back

Back pain - lower usually comes from sore muscles or from signs of injury or wear and tear of the spinal column and/or intervertebral disc damage. Sometimes the pain radiates into the legs.

This program is for spine and nerve related pain conditions including sciatica. It is recommended to additionally use muscle programs, example Muscle treatment, Muscle Spasm or Muscle Pain using Hand Electrodes for 5 minutes.

When applying the electrodes as in the picture, the position of A can be higher or lower depending on the main pain area.



Carpal-Tunnel

Carpal tunnel syndrome is the compression of the median nerve as it passes into the hand. Among the causes are inflammation and swelling caused by repetitive wrist movements. Swelling inside your wrist causes the compression in carpal tunnel syndrome. It can lead to numbness, weakness and tingling on the side of your hand near the thumb.

BCR's effectiveness on controlling inflammation and swelling helps in the rehabilitation of Carpal-Tunnel.

Epicondylitis

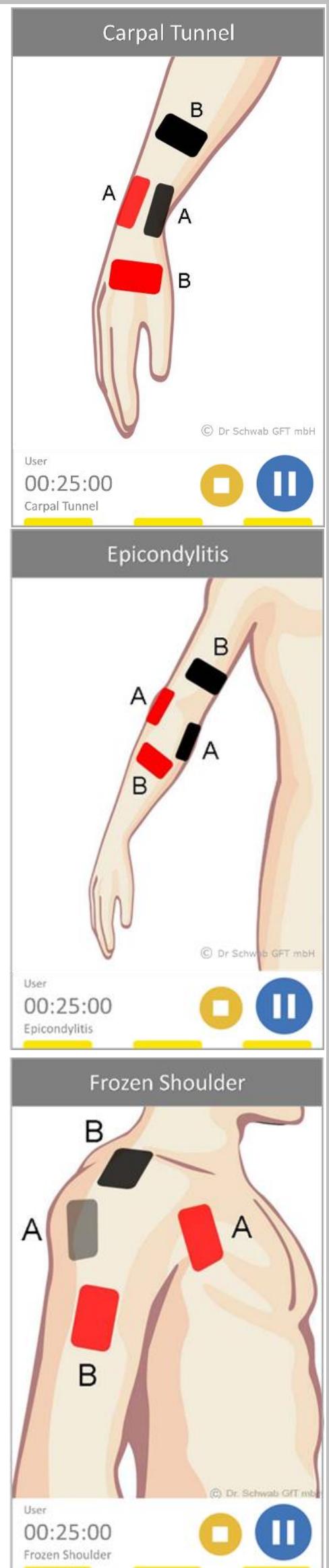
Epicondylitis is the most common overuse syndrome in the elbow. It develops where tendons in the forearm muscle connect to the bony part on the elbow. Tendons attach muscles to bones. Due to over-stretching, overuse or injury to the tendons they become swollen and painful.

BCR's effectiveness on controlling inflammation and swelling helps in the treatment of Epicondylitis.

Frozen Shoulder

Frozen Shoulder is a condition that causes pain and limits motion in the shoulder joint. Pain and stiffness develop gradually, gets worse and then finally goes away. This can take anywhere from a year to 3 years.

BCR is a fast and painless way to treat Frozen Shoulder. When observed carefully, some pain relief and some mobility improvement has been noticed after every single session. On average it takes 10 to 20 sessions to regain almost full mobility. This very much depends of whether the Frozen Shoulder is in the early stage or late stage.



Heel Pain

Sometimes we feel pain in the bottom of the foot upon initial weight bearing. Sometimes that pain occurs the first thing in the morning when we wake up. Most of us try to ignore early signs of heel pain and keep on doing the activities that caused it. When we continue to use a sore heel without any treatment it will get worse and become a chronic condition. It may stay on for months or even years.

One of the difficulties in treating heel pain is that we are not able to immobilise or rest the heel as we need to use the heel for daily activities. BCR treatments are very helpful but still takes time.

Hip

Hip pain has a variety of possible causes. When the problem is with the hip itself you will feel pain inside your hip joint or your groin. If the pain is outside your hip, on the upper thigh or outer buttock, the cause will usually be problems with muscles, ligaments or tendons around the hip joint. Sometimes pain from other areas can be felt in your hip - this is called 'referred pain', like sciatica.

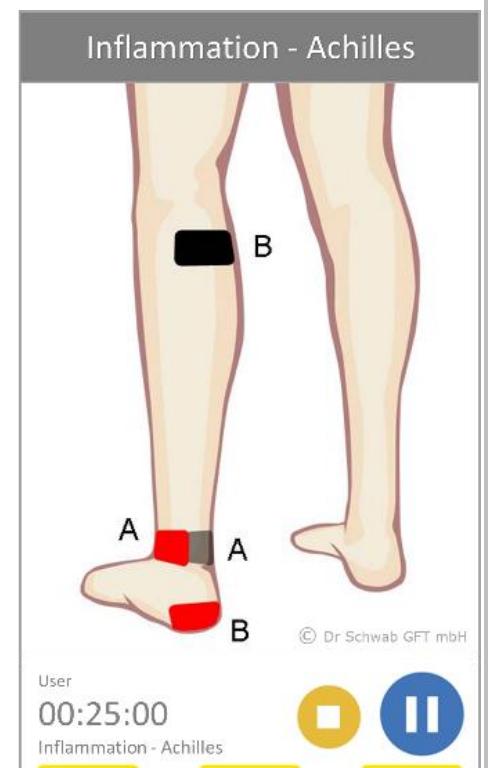
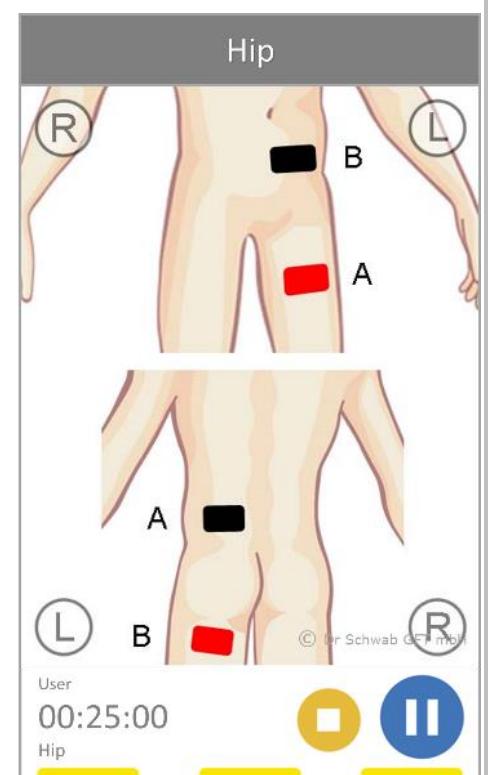
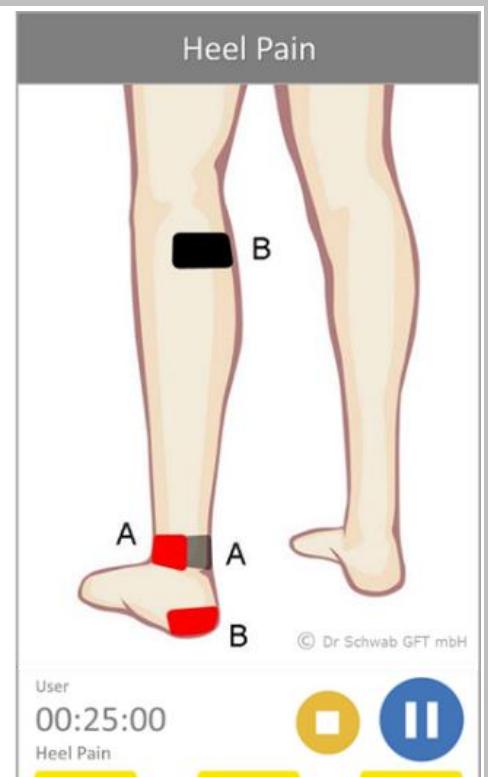
This program is for muscular ache. It is beneficial to use Hand Electrodes for 5 minutes after the treatment.

Cell Light can be applied on the pain area during the treatment.

Inflammation - Achilles

The Achilles tendon attaches your calf muscles to your heel bone, or calcaneus. You use this tendon to jump, walk, run, and stand on the balls of your feet. Continuous, intense physical activity, such as running and jumping, can cause painful inflammation of the Achilles tendon, known as Achilles tendonitis (or tendinitis).

This program can also be applied locally on tendons, ligaments, joint capsules, bursas and also of organs (liver, stomach, stomach, pancreas...) as well as systemically as a preventive healthcare therapy.



Joint Pain - Acute

Many different conditions can lead to painful joints, including injury or disease to the joint itself, Rheumatoid Arthritis, Osteo Arthritis, Bursitis, Gout, Strains, Sprains and other injuries.

Acute Joint Pain is of sudden onset and is usually the result of an injury. It resolves with the healing of its underlying cause, usually in weeks or a few months. Chronic Joint Pain is an ongoing pain that has persisted for the past 6 months or even years.

This treatment is for Acute joint pain for injury or disease to the joint itself.

Joint Pain - Chronic

Many different conditions can lead to painful joints, including injury or disease to the joint itself, Rheumatoid Arthritis, Osteo Arthritis, Bursitis, Gout, Strains, Sprains and other injuries.

Acute Joint Pain is of sudden onset and is usually the result of an injury. It resolves with the healing of its underlying cause, usually in weeks or a few months. Chronic Joint Pain is an ongoing pain that has persisted for the past 6 months or even years.

This treatment is for Chronic joint pain for injury or disease to the joint itself.

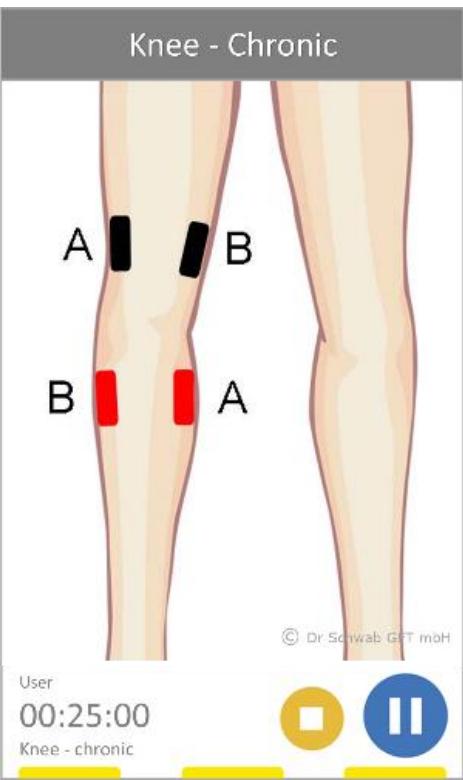
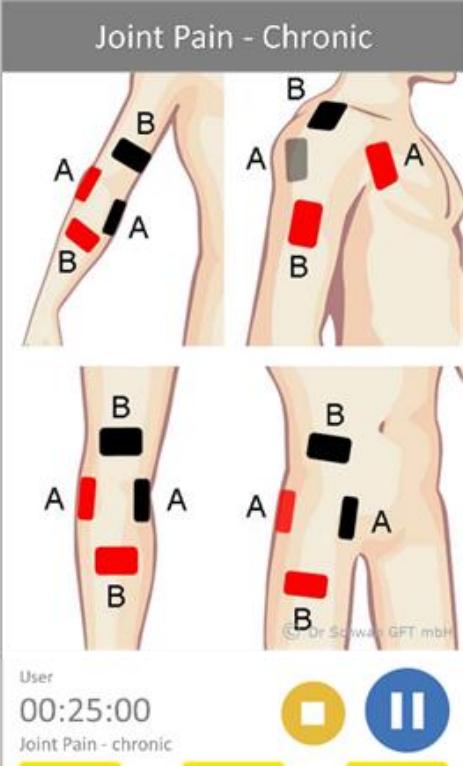
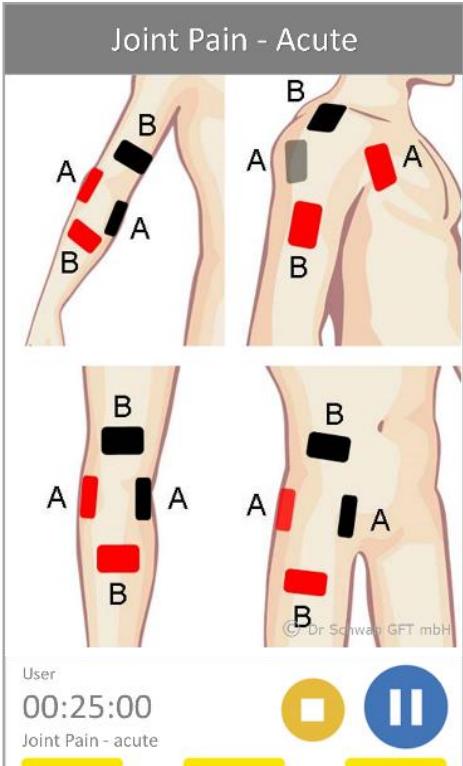
Knee - Chronic

This program is for Chronic Joint Pain specific to the knee.

! INFORMATION:

<u>Variables needed for Healing</u>	<u>Microcurrent</u>	<u>TENS</u>
ATP – Synthesis	+500%	-50%
Membrane Transport	+40%	-40%
Protein Synthesis	+73%	-50%

Source : *Clinical Orthopedics, Cheng, 1989*



Knee - Acute

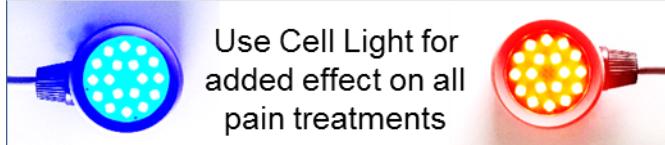
This program is for Acute Joint Pain specific to the knee.

Migraine - 1

This program is for Migraine.

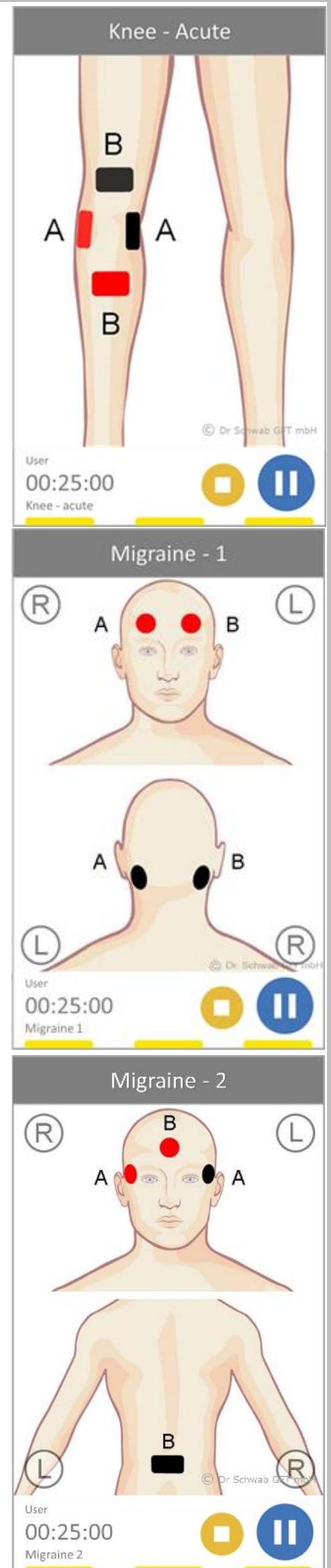
! INFORMATION:

Use Cell Light for added effect on all pain treatments



Migraine - 2

The difference in the two Migraine programs is in the area of coverage in the head only and the head plus the spine. It is good to try both.



The image displays three screenshots of a mobile application interface for pain treatment programs. Each screenshot shows a diagram of the human body with specific treatment areas highlighted in red (A) and black (B). The top screenshot is titled "Knee - Acute" and shows the front view of legs with red areas on the lower thighs and black areas on the upper thighs. The middle screenshot is titled "Migraine - 1" and shows the front and back views of a head with red areas on the forehead and black areas on the temples. The bottom screenshot is titled "Migraine - 2" and shows the front view of a head with red areas on the forehead and temples, and a black area on the spine. Each screenshot includes a timer set to 00:25:00 and control buttons for play/pause and stop. The copyright notice "© Dr. Schwab G&T mbH" is visible in the bottom right corner of each diagram.

Muscle Spasm

Muscle spasm happen when a muscle involuntary and forcibly contracts and cannot relax. Also known as muscle cramps, muscle spasms can range from mild twitches to severe pain.

	! INFORMATION: Use Hand Electrodes for added effect on soft tissue treatments
---	---

Muscle Pain

Muscle pain may arise due to over-exertion, injury or inflammatory conditions. Muscle pain due to injury or overuse is most commonly localized to one area.

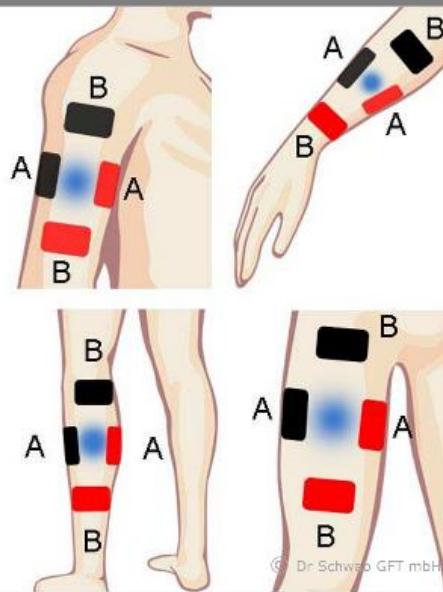
Muscle pain is also a symptom of chronic conditions like fibromyalgia. For widespread muscle pain and fatigue all over the body it may help to apply this program systemically (whole body application).

Neck Pain

Neck pain usually comes from sore muscles or from signs of wear and tear of the spinal column and /or intervertebral disc damage. Sometimes the pain radiates into the arms.

This program is for muscular ache. It is beneficial to use Hand Electrodes for 5 minutes after the treatment.

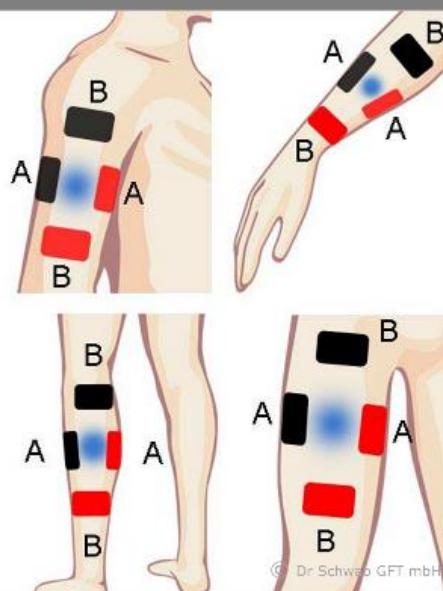
Muscle Pain



Diagrams showing electrode placement (A and B) for Muscle Pain treatment on the arm and leg. The diagrams illustrate the placement of electrodes A and B on the arm and leg, with a central blue area indicating the target area. The diagrams are labeled with 'A' and 'B' to indicate the placement of the electrodes.

User: 00:25:00
Muscle Pain

Muscle Pain



Diagrams showing electrode placement (A and B) for Muscle Pain treatment on the arm and leg. The diagrams illustrate the placement of electrodes A and B on the arm and leg, with a central blue area indicating the target area. The diagrams are labeled with 'A' and 'B' to indicate the placement of the electrodes.

User: 00:25:00
Muscle Pain

Neck Pain

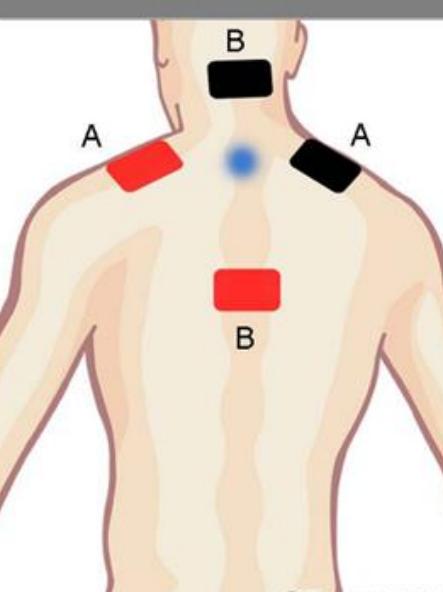


Diagram showing electrode placement (A and B) for Neck Pain treatment. The diagram illustrates the placement of electrodes A and B on the neck and upper chest area, with a central blue area indicating the target area. The diagrams are labeled with 'A' and 'B' to indicate the placement of the electrodes.

User: 00:25:00
Neck Pain

Osteo Arthritis

Osteoarthritis (OA) is a common joint disease that most often affects middle-age to elderly people. It is commonly referred to as "wear and tear" of the joints. OA is a disease of the entire joint, involving the cartilage, joint lining, ligaments, and bone. It is characterized by breakdown of the cartilage (the tissue that cushions the ends of the bones between joints), deterioration of tendons and ligaments, and various degrees of inflammation of the joint lining (synovium).

The anti-inflammatory and regenerative functions of BCR helps in the rehabilitation of Osteo Arthritis.

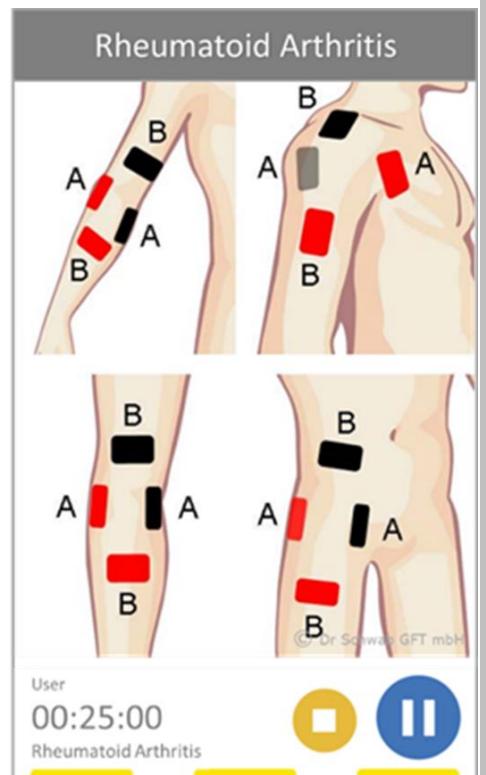
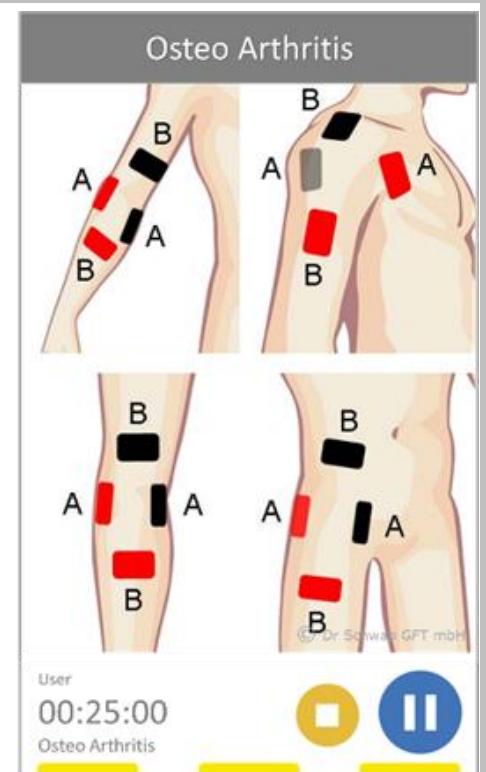
Rheumatoid Arthritis

Rheumatoid arthritis (RA) is an autoimmune disease that can cause joint pain and damage throughout your body. The joint damage that RA causes usually happens on both sides of the body. So, if a joint is affected in one of your arms or legs, the same joint in the other arm or leg will probably also be affected. This is one way that doctors distinguish RA from other forms of Arthritis, such as Osteo Arthritis.

BCR's ability of control inflammation helps in pain relief and swelling. Long term control of inflammation using BCR helps in long term pain relief and also to limit further deterioration of the disease. Standard applications are in the figure.



To have full coverage of hands and feet you may use a basin of warm water with some basic salt. Place the palms or feet into the water, depending on whether you are treating the hand or the legs. Apply the black ends in the shoulder (for hands) or hip (for legs) and drop the red ends into the water.



Tendon Irritation

Tendons are thick cords that join your muscles to your bones. When tendons become irritated or inflamed, after monotonous movements or sports, it causes acute pain and tenderness, making it difficult to move the affected joint.

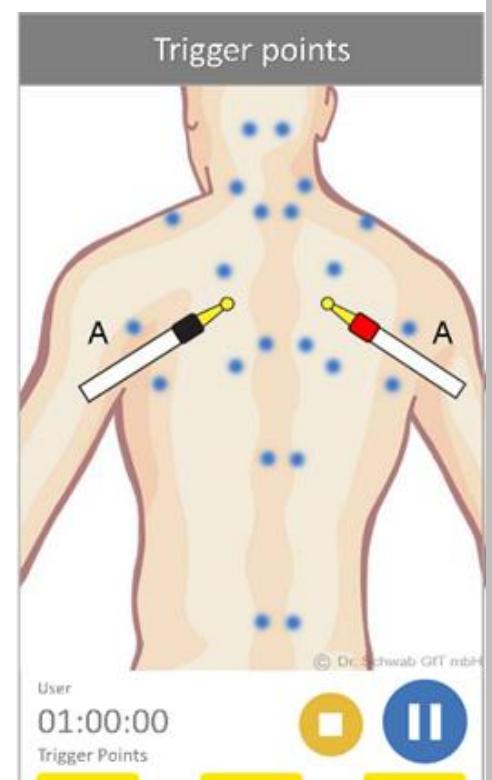
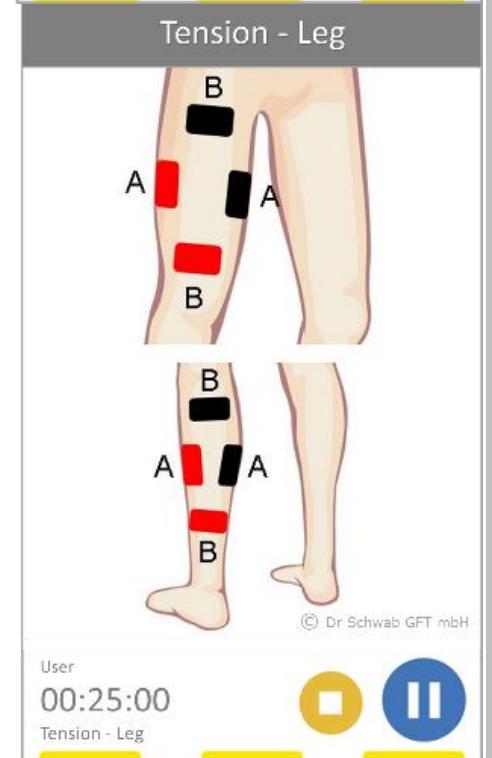
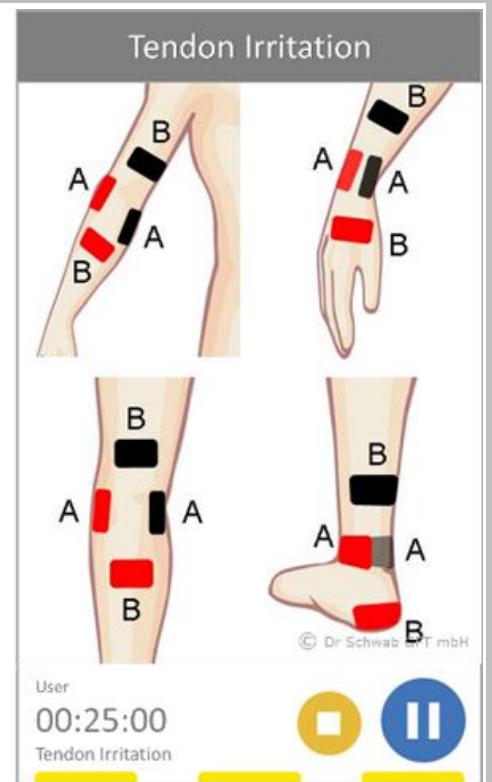
Tension - Leg

Tense muscles over a period can become achy. This program relieves the ache in your muscles in Chronic Tension. It promotes blood circulation in the muscle tissue and relieves overly acidic pain. This comes handy when other more direct programs do not give the best result.

Trigger Points

Trigger points or muscle “knots” are the sensitive spots in soft tissue. They may be a major factor in back and neck pain commonly known as myofascial pain syndrome (MPS). Hand Electrodes are extremely useful in helping to release Trigger Points.

A useful tip – in some occasions it can be convenient to grip one tip of the hand probe with the palm and use the other tip on Trigger Points.



INJURY

Bruise

For Bruise and typical contusions please use if possible, immediately after the injury. Gel pads, hand electrodes and Cell Light can be used for this.

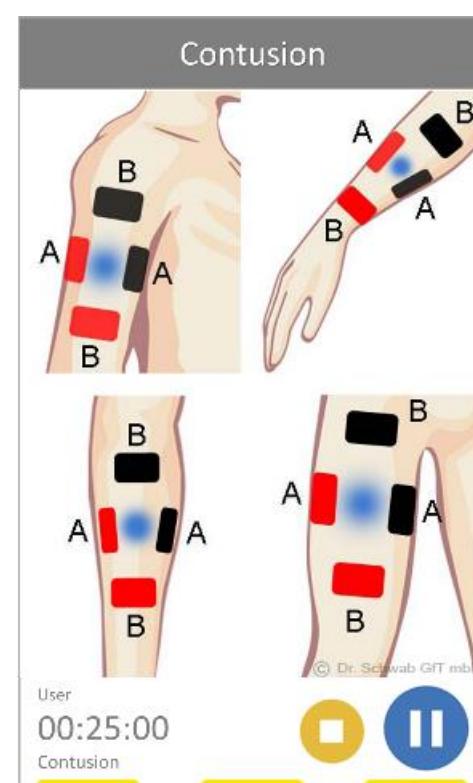
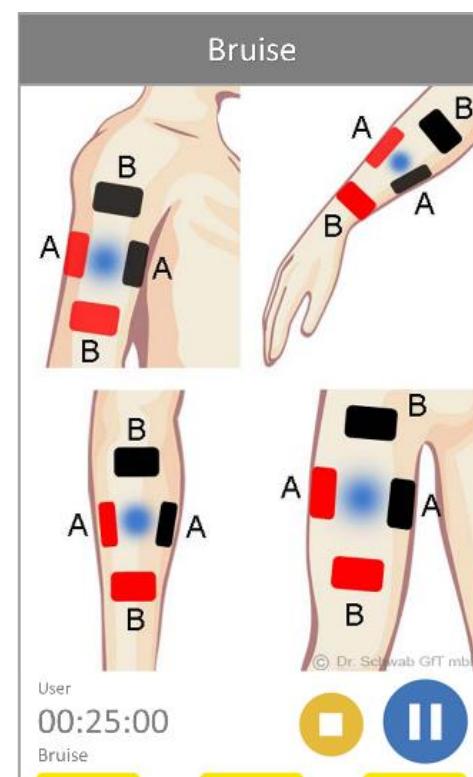
INFORMATION:

A disorder in the central nervous system is the cause of numerous ailments such as **Stroke, Parkinson disease, multiple sclerosis, amyotrophic lateral sclerosis (ALS), Alzheimer disease, muscle dystrophy, pains caused by spinal spondylosis, carpal tunnel syndrome, etc.**

This is not to be taken as a cure for nerve disorders; however, it is one of the few treatments that can be applied safely in the brain to manage such disorders effectively. See pages **39-40**.

Contusion

Like Bruise contusion happens when blood leaks under the skin creating a blue-black spot (Hematoma). It is the result of a direct blow or an impact, such as a fall or sports injury. Contusions are one of the most common types of injuries occurring in active children. Contusion needs to be treated early to avoid deep tissue damage.

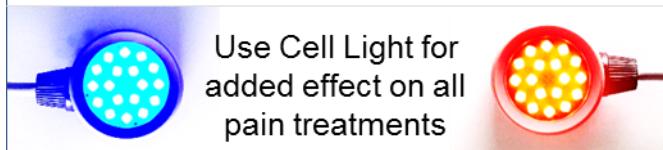


Distortion

Also known as a Sprain, Distortion is an injury that occurs when we twist or turn ankle or wrist in an awkward way causing to stretch or tear the tough bands of tissue (ligaments) that help hold the joint bones together.

! INFORMATION:

Use Cell Light for added effect on all pain treatments

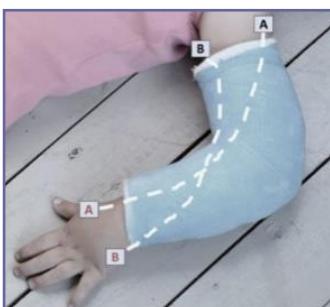


Fracture – Arm

It is important for fractures to be checked by a doctor first. The healing of a fracture can be sped up substantially by this treatment. Ideally the treatment should start soon after a fracture. However, treatment can start at any point after a fracture.

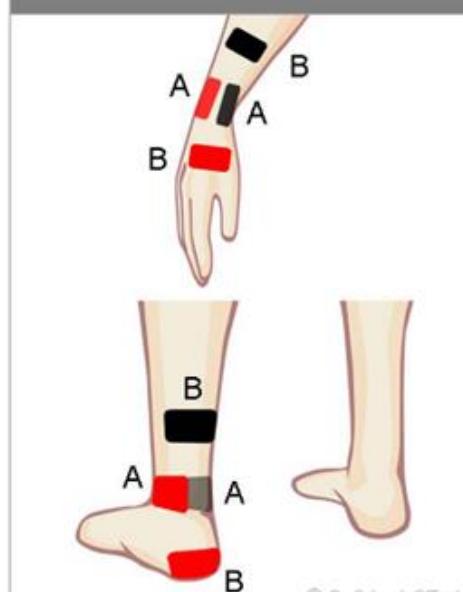
Fracture – Leg

It is important for fractures to be checked by a doctor first. The healing of a fracture can be sped up substantially by this treatment. Ideally the treatment should start soon after a fracture. However, treatment can start at any point after a fracture.



A treatment application for fracture can be improvised through the casting (as shown in the picture).

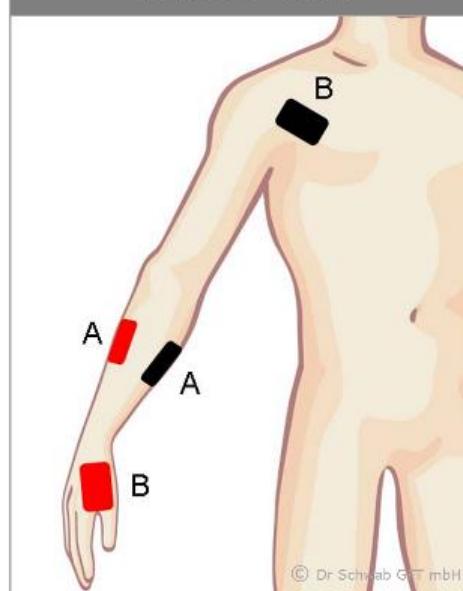
Distorsion



User: 00:25:00
Distorsion

© Dr. Schwab GFT mbH

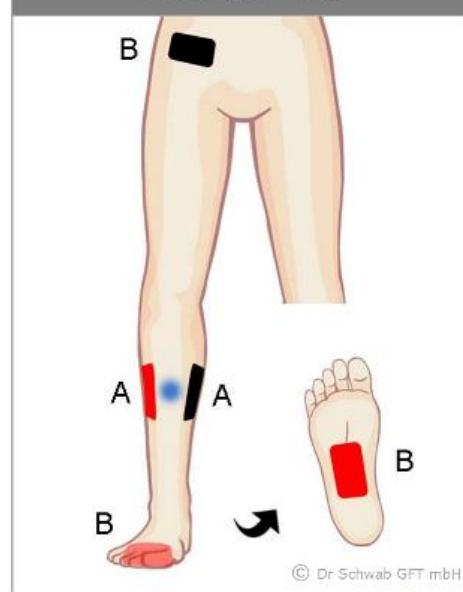
Fracture - Arm



User: 00:49:00
Fracture - Arm

© Dr. Schwab GFT mbH

Fracture - Leg



User: 00:49:00
Fracture - Leg

© Dr. Schwab GFT mbH

Fracture – Vertebral Body

It is important for fractures to be checked by a doctor first. The healing of a fracture can be sped up substantially by this treatment. Ideally the treatment should start soon after a fracture. However, treatment can start at any point after a fracture.

Ligament Injury

This is always applied locally where the cause is a ligament injury.



Please read the TECHNICAL HANDBOOK for Technical Specifications and Safety Instructions.

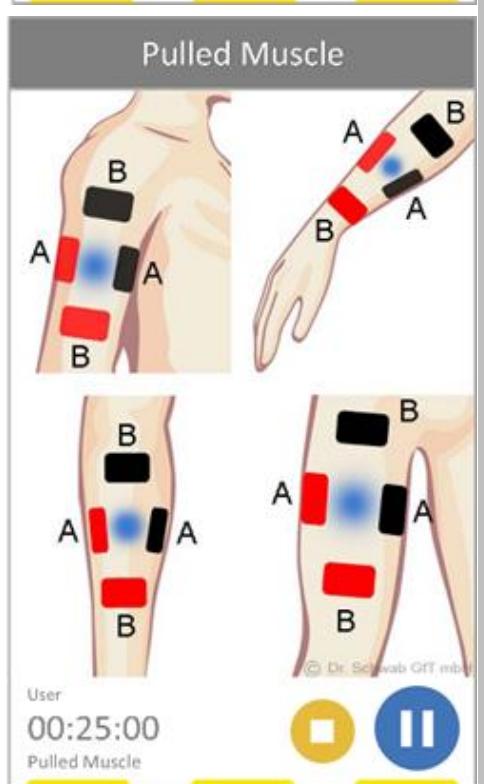
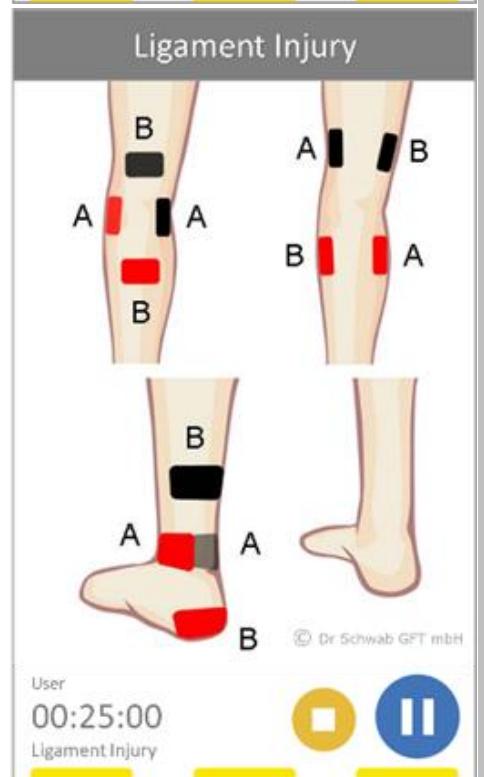
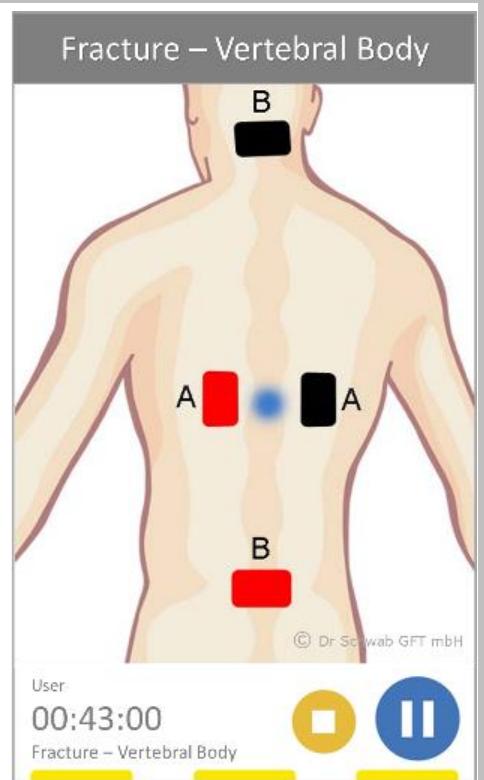
Pulled Muscle

If you have injuries like sprains or tears of muscle fibre, accompanied by bruising, use this program immediately after detecting them.

! INFORMATION:



Use Hand Electrodes for added effect on soft tissue treatments



Swelling

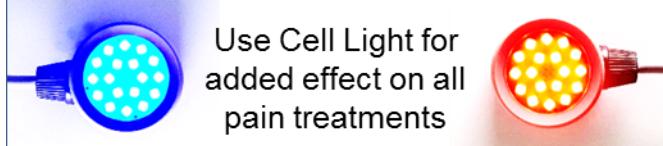
This program is for localised swelling. For systemic (whole body) swelling use this in combination with a Lymph program (Lymph – Arm, Lymph- Leg) in systemic application.

Tendon Injury

This is always applied locally where the cause is a tendon injury.

! INFORMATION:

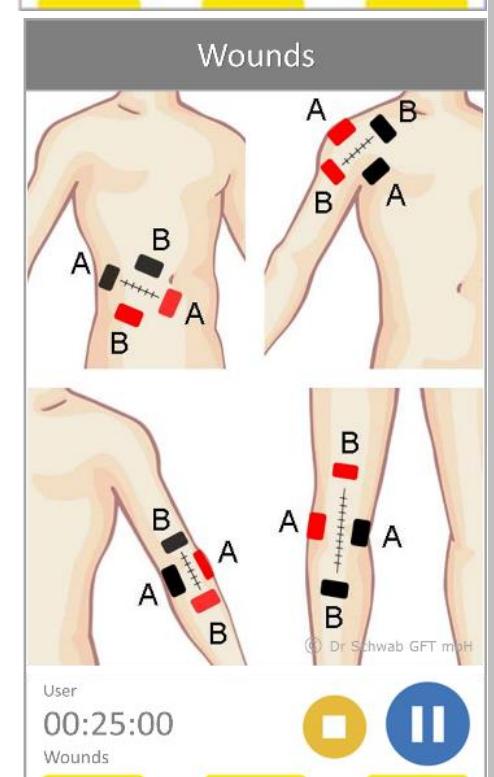
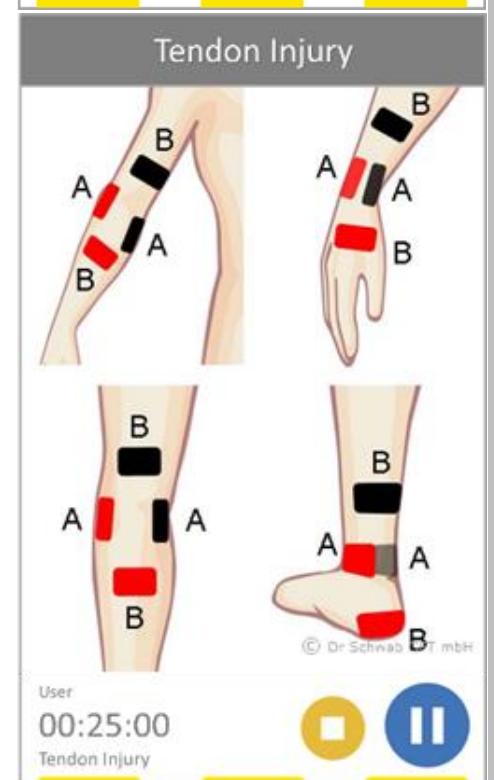
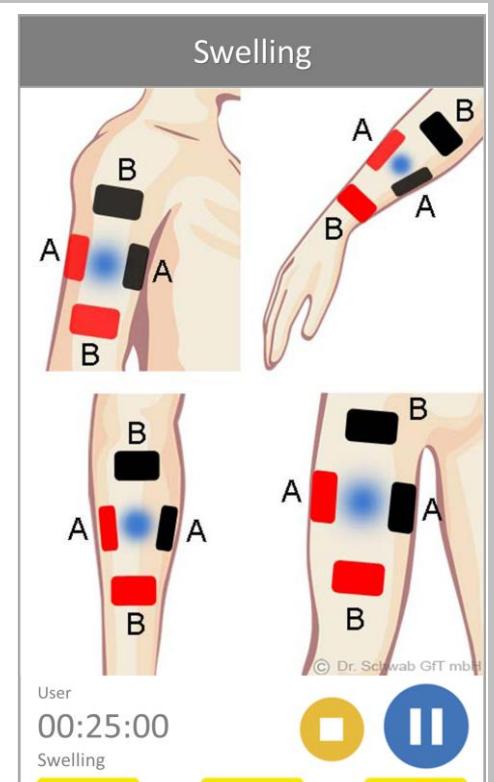
Use Cell Light for added effect on all pain treatments



Wounds

This program treats pain and accelerates healing of a wound sustained in a small accident or after surgery. The sooner treatment is applied the better result can be expected.

Good results have been seen in diabetic wounds and gangrene with this program. Tests have found that it increases oxygen saturation and blood circulation.



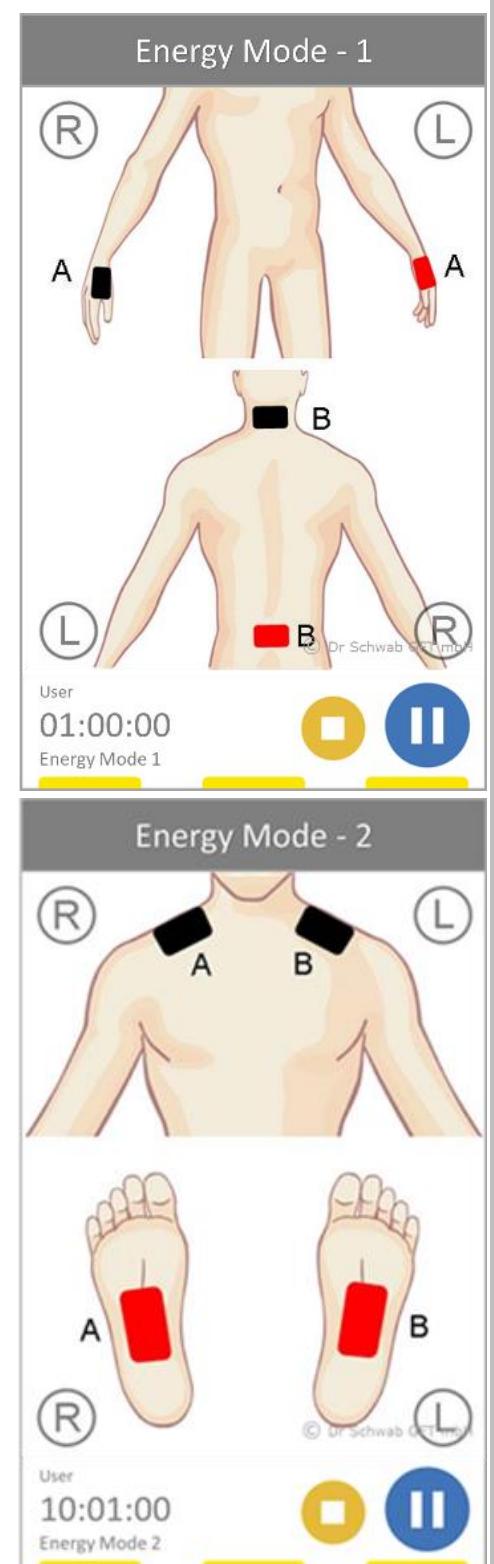


Energy Mode 1

Energy Mode can be used with all complaints and is compatible with all other programs. It is usually applied systemically. This program can also be used as a last resort to conditions where all other programs have not given desired results.

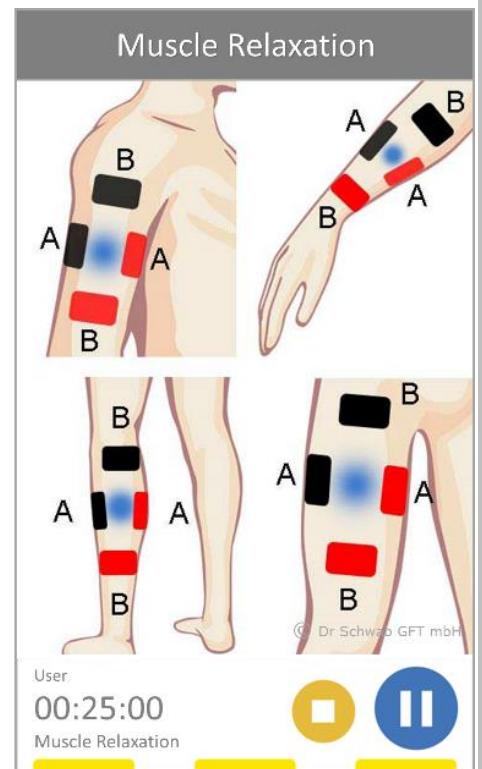
Energy Mode 2

This program is similar to Energy Mode 1 except for the treatment duration. The program runs for 10 hours. It is not necessary to complete the program. It is a good long program for healing and wellness while resting, watching television or working on the desk.



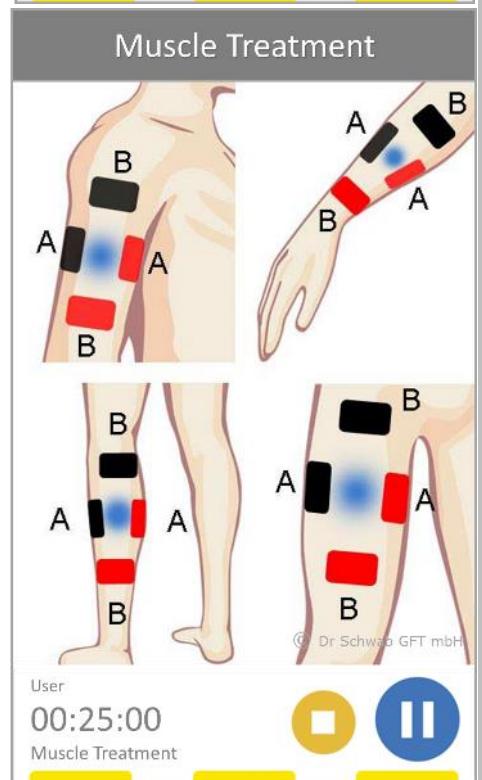
Muscle Relaxation

If you expose yourself to severe and repeated strain during sports or at work, your muscles may cramp up to differing degrees and may not fully recover. This is also true for painful muscular conditions due to other causes. Muscle Relaxant program improves the circulation and relaxation of muscles and greatly help with these ailments.



Muscle Treatment

This is used to reduce spasms in the muscle. Both the gel pads and hand electrodes can be used for the treatment of Muscle Treatment.



! INFORMATION:



Use Hand Electrodes for added effect on soft tissue treatments

! INFORMATION:

Arndt-Schultz Law

- Weak stimulus activates biological functions
- Medium stimulus modulates biological functions
- Strong stimulus inhibits biological functions
- Very strong stimulus blocks biological functions

! INFORMATION:

BCR delivers extremely low electrical stimulation that is biologically compatible to work at the cellular level. Often you don't feel anything. It is estimated that 30 minutes of microcurrent application gives the cellular stimulation equivalent to four hours of massage. The intensity of BCR's weak stimulus is high at the cellular level.

Muscle Warm-Up

This program leads the body to produce energy, power and motivation and increase your resistance to stress. It is recommended to use this program ahead of physically stressful situations.

The application is usually systemic.

Muscle Cool-Down

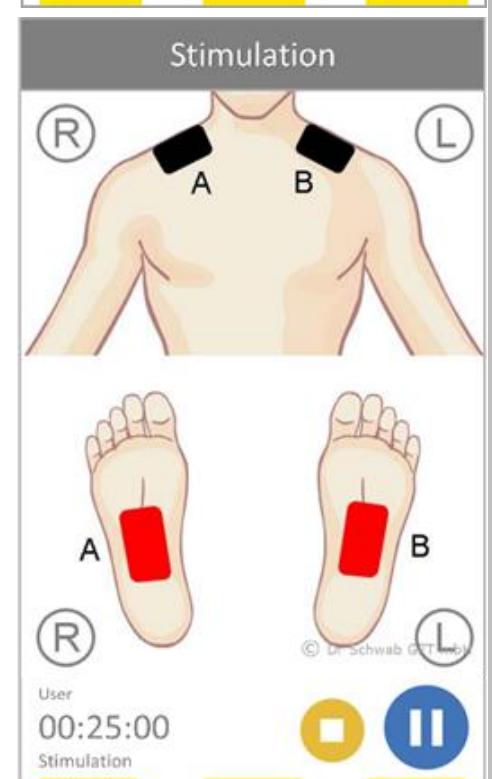
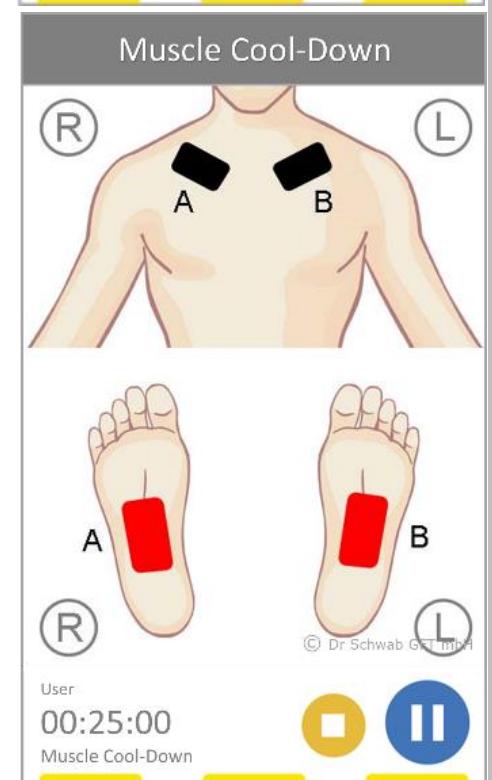
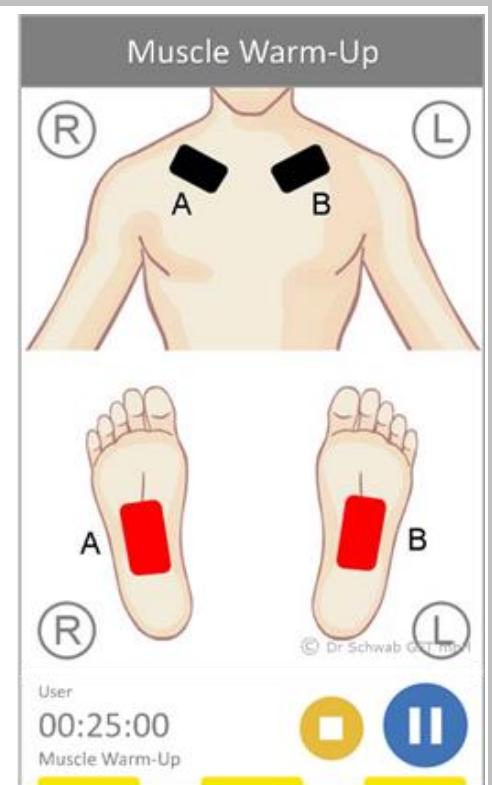
This is ideally used after physical exercise or stress. It helps to relax and regenerate sore tissue. Often used at night and never before physical activity.

In Sports this helps to shorten the resting period between practices.

The application is usually systemic.

Stimulation

This application is to stimulate growth in the area. It can be applied locally or systemically





Belly

This program is similar to Lymph – Fat burn. The focus is on regeneration than fat burn.

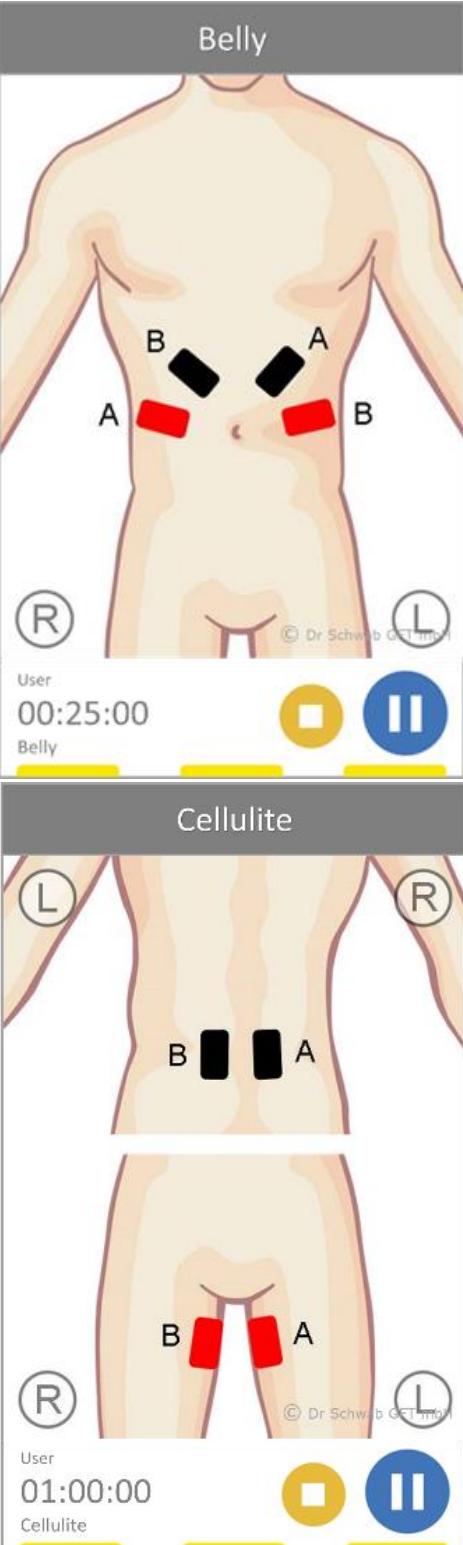
! INFORMATION:



Use Hand Electrodes for added effect on soft tissue treatments

Cellulite

This program is for improving the appearance of cellulites.



Belly

© Dr. Schwab G&T GmbH

User: 00:25:00

Cellulite

© Dr. Schwab G&T GmbH

User: 01:00:00

Face - Cheeks

This application can be used instead of the Hand Probes when doing it yourself.

Face – Cheeks (H)

This is a regenerative program that energises the natural production and growth that has slowed down due to ageing.

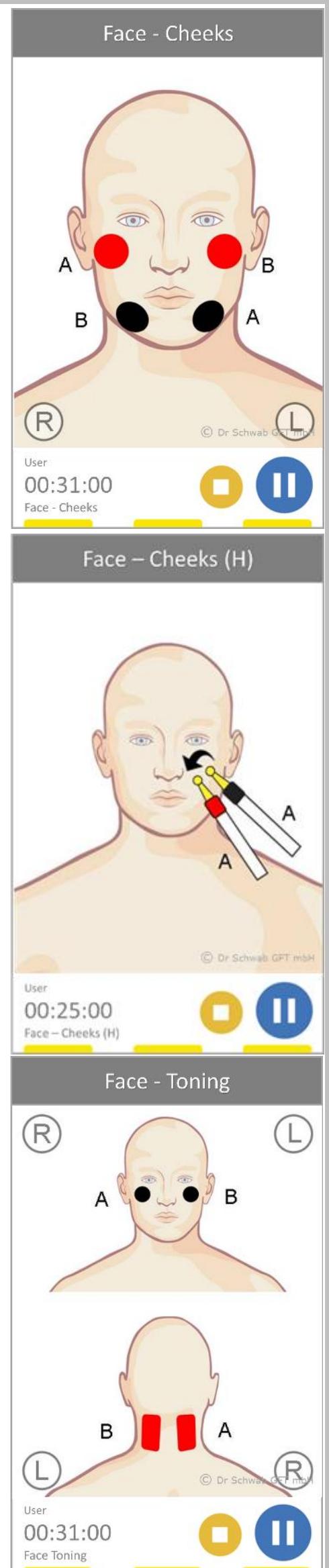
! INFORMATION:

Arndt-Schultz Law

- Weak stimulus activates biological functions
- Medium stimulus modulates biological functions
- Strong stimulus inhibits biological functions
- Very strong stimulus blocks biological functions

Face – Toning

This program is for helping in the tightening and firming of facial skin. It is applied from the neck upwards. When applying this program it is important to apply equally over both sides of the face.



Face – Skin (H)

This program is designed to help towards getting the skin healthier, softer, smoother and fairer.

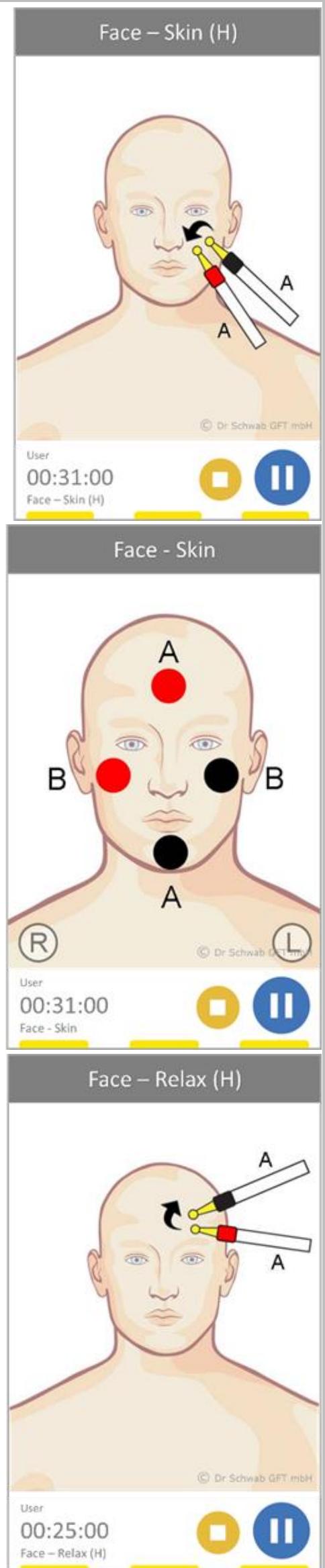
It can be used in any part of the body to help in skin conditioning.

Face – Skin

This application can be used instead of the Hand Probes when doing it yourself.

Face – Relax (H)

This program can be used to help relax the facial tissue.



Face – Relax

This application can be used instead of the Hand Probes when doing it yourself.

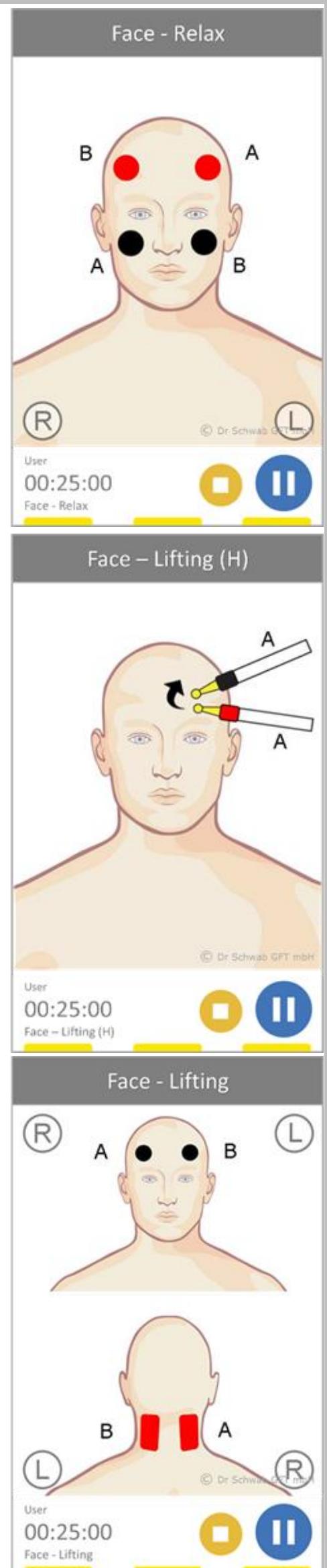
Face – Lifting (H)

This program is for helping in the uplifting of sagging facial muscles. It is applied from the neck upwards. When applying this program it is important to apply equally over both sides of the face.

This program can also be used to tighten and uplift breasts and arms.

Face – Lifting

This application can be used instead of the Hand Probes when doing it yourself.



Face – Eyes (H)

This is a regenerative program that energises the natural production and growth that has slowed down due to ageing. The intensity is adjusted for the eyes.

Face – Eyes

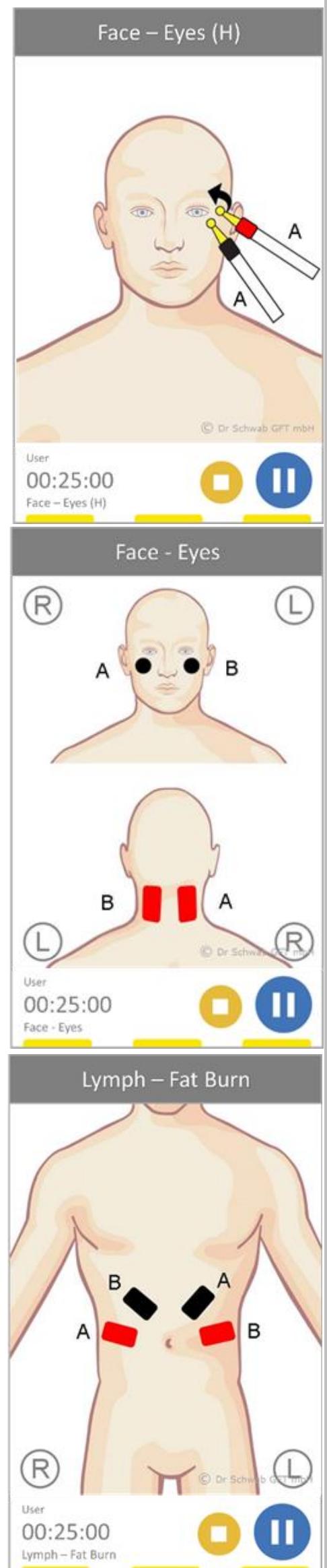
This application can be used instead of the Hand Probes when doing it yourself.

! INFORMATION:

BCR delivers extremely low electrical stimulation that is biologically compatible to work at the cellular level. Often you don't feel anything. It is estimated that 30 minutes of microcurrent application gives the cellular stimulation equivalent to four hours of massage. The intensity of BCR's weak stimulus is high at the cellular level.

Lymph – Fat Burn

Although BCR treatments work below sensory level, the intensity is high as it works directly at the cellular level. It increases metabolism and helps convert fats to muscles. When complimented with dietary controls it helps reduce fat.



Rejuvenation - 2

This program can be used for any condition. Application is always systemic. Very useful to apply this program on aged ailing patients and those recovering from an ailment. Both programs Rejuvenation -1 and Rejuvenation - 2 are identical. The repeat is to show two applications.

Alternative Therapy Centres dealing with Cancer patients use these Rejuvenation 1 and 2 programs along with the Alkalisation program. They have seen good results in regenerating and energising the patients. This is also used to compliment conventional cancer therapies particularly in mitigating their side effects.

Rejuvenation - 1

This program can be used for any condition. Application is always systemic. Very useful to apply this program on aged ailing patients and those recovering from an ailment.

Alternative Therapy Centres dealing with Cancer patients use these Rejuvenation 1 and 2 programs along with the Alkalisation program. They have seen good results in regenerating and energising the patients. This is also used to compliment conventional cancer therapies particularly in mitigating their side effects.

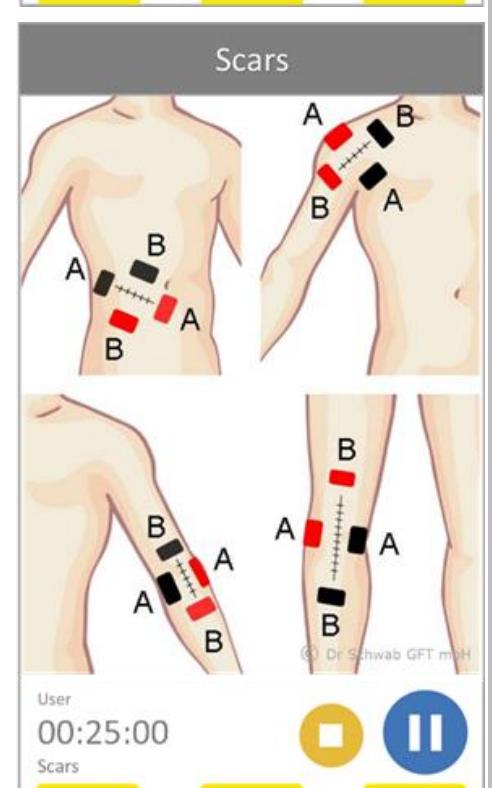
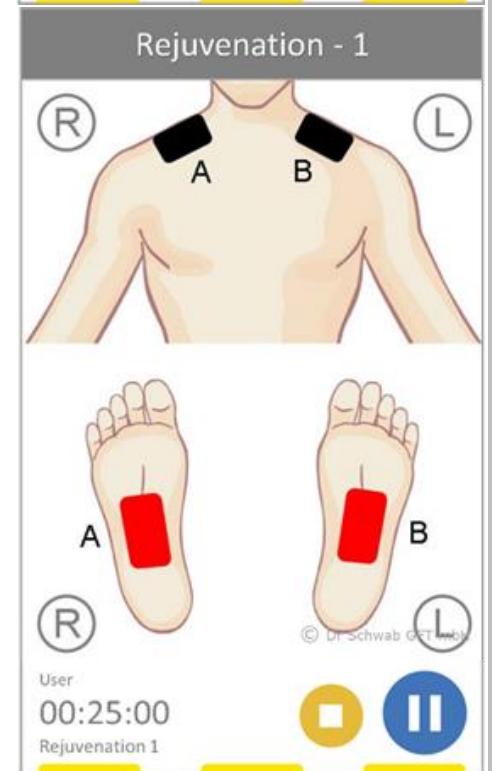
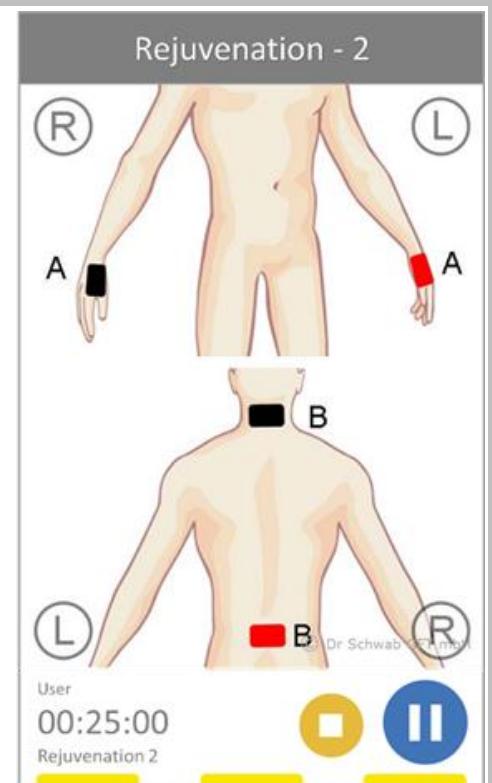
Scars

Tissue scars are not only unsightly, they can also disturb body's regulatory mechanisms and can be the hidden cause of pain problems and metabolic disorders.

This program can be used for both superficial scars as well as deeper scars after surgeries or shrinking of capsules in joints (shoulder, elbow, knee, hip and ankle).

You can also use this program immediately after stomach surgeries and associated adhesions.

It can be used acne scars on the face with hand electrodes.



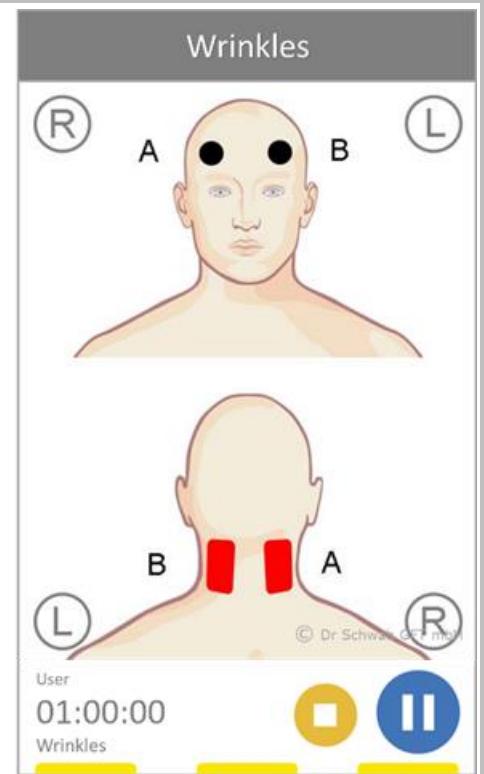
Wrinkles

This program can be used to help soften wrinkles.

! INFORMATION:

<u>Variables needed for Healing</u>	<u>Microcurrent</u>	<u>TENS</u>
ATP – Synthesis	+500%	-50%
Membrane Transport	+40%	-40%
Protein Synthesis	+73%	-50%

Source : *Clinical Orthopedics, Cheng, 1989*

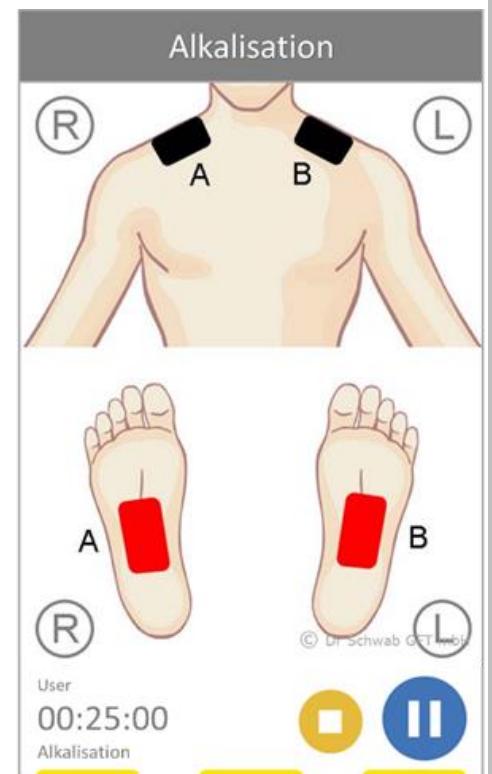


PREVENTIVE HEALTHCARE

Alkalisiation

There are no specific symptoms when to use Alkalisiation. It is used for general wellness. The application is systemic.

Alternative Therapy Centres dealing with Cancer patients use this Alkalisiation program along with the Rejuvenation program. They have seen good results in regenerating and energising the patients. This is also used to compliment conventional cancer therapies particularly in mitigating their side effects.



Asthma

Use regularly for better result. Regular usage also helps reduce the severity and frequency of Asthma attacks.

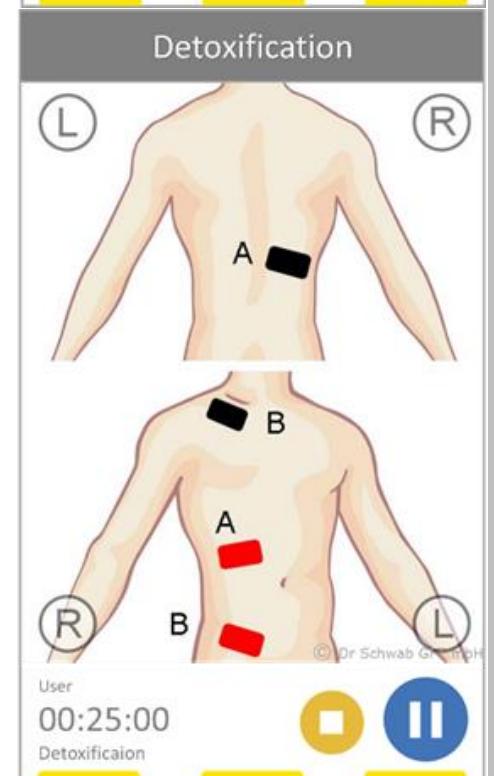
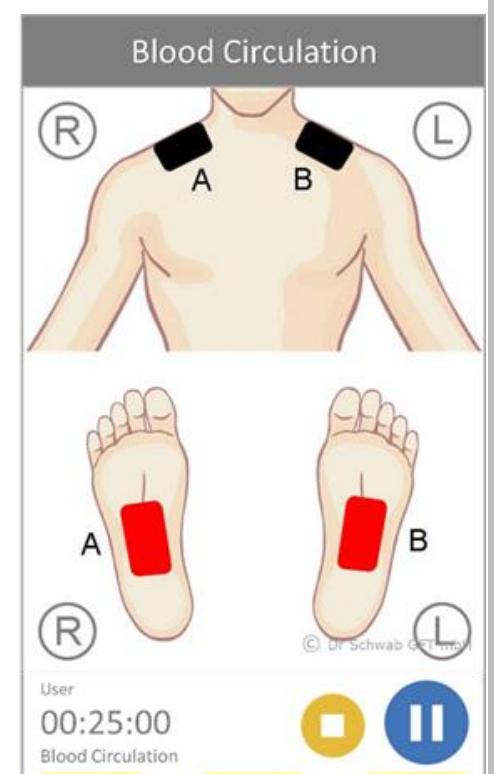
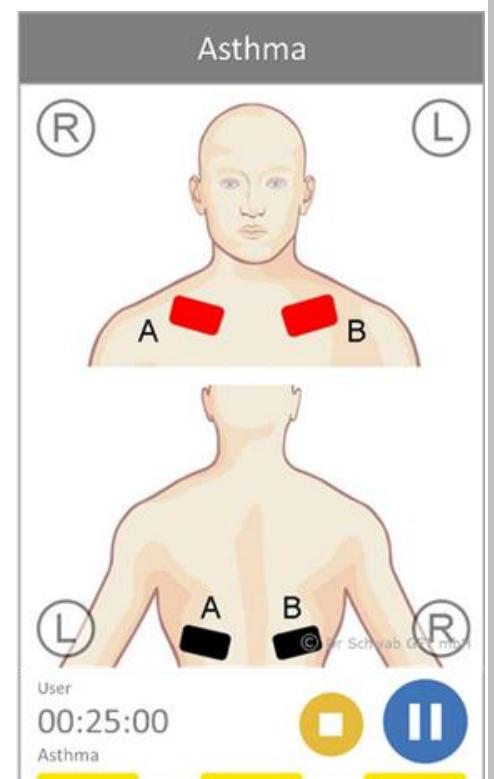
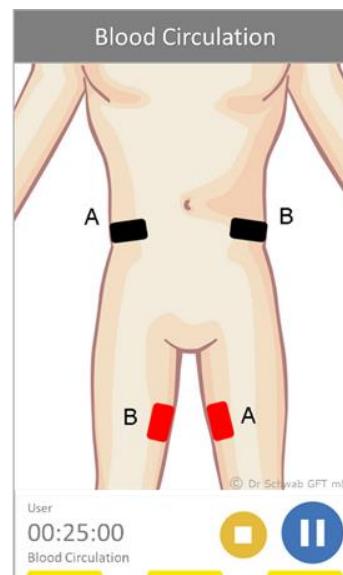
Blood Circulation

This program to improve blood circulation. It is usually applied systemically. You may also apply locally.

Blood Circulation is also recommended for Erectile Dysfunction and Urinary Incontinence. These are based on anecdotal evidences, not supported by clinical studies yet. Can be used for various other ailments too.

Detoxification

This program supports the liver and the kidney in their functions. It is especially useful after medical treatments, after surgeries and during special diets. This can also be used anytime. Application is usually systemic.



Immune System

This program serves to strengthen the immune system and is also used as a prophylactic.

If you have travelled to or intent to travel to a disease-prone region, if you are weak after overworking physically you can boost your immune system.

This can be used as a possible defence against COVID-19 infection even though no clinical study has been done specifically against COVID-19 yet.

Inflammation - Liver

This program addresses complaints that are caused by irritation or inflammation of Liver.

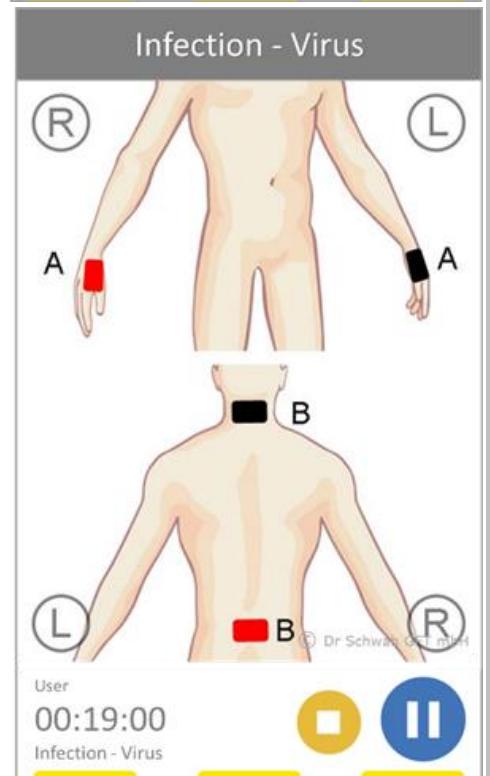
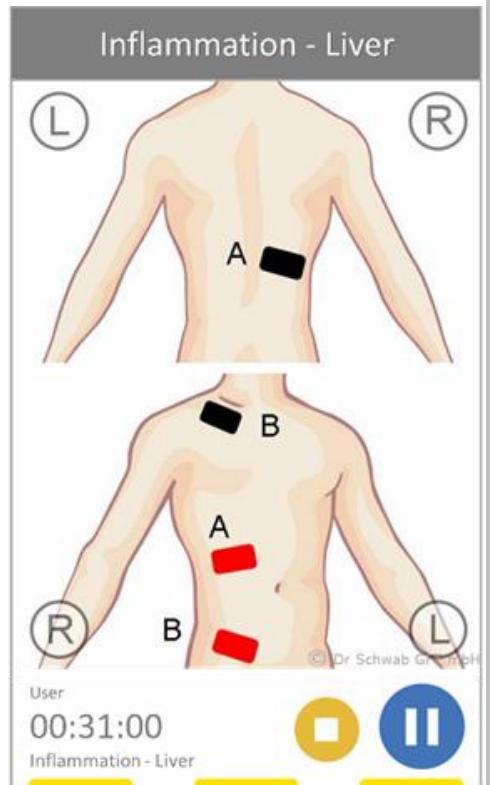
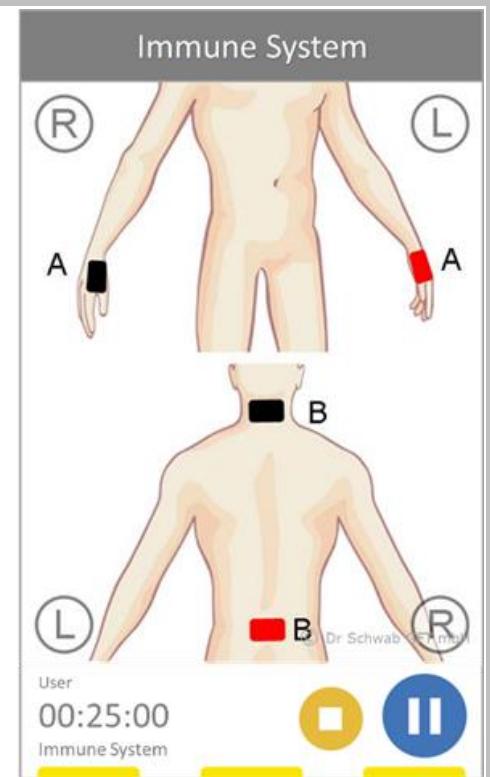
This program can also be applied locally on tendons, ligaments, joint capsules, bursas and also of organs (liver, stomach, pancreas...) as well as systemically as a preventive healthcare therapy.

Infection - Virus

A viral infection is usually a systemic infection and more rarely a local infection. Viral infections often occur in the context of influenza epidemics and are absorbed through the nose, throat or lungs. In rare cases, there is a local occurrence, as in Herpes simplex (cold sores or shingles).

If possible start immediately after the first occurrence of your symptoms and complement with Energy Mode and Immune System programs.

This can be used as a possible treatment for COVID-19 infection even though no clinical study has been done specifically against COVID-19 yet.



Infection - Paranasal

This program can be used to treat bacterial type infection, both locally and systemically. There are different types of infections; the simple upper wound infection, infection of the joints and bones, infection of the throat, lungs and sinuses caused by influenza and the very serious systemic sepsis.

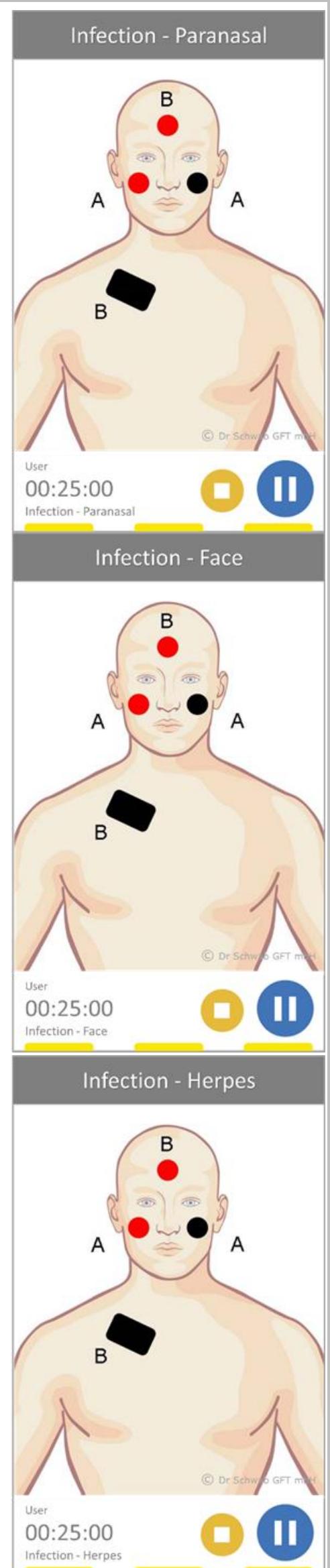
The treatment with Premium is a complementary measure in addition to conventional medical therapy used by your doctor. If you discover any changes with the use of Premium discuss them with your doctor.

Infection - Face

Please read similar program Infection - Paranasal

Infection Herpes

This is specifically for viral infections. Please also read about Infection – Virus.



Inflammation - Stomach

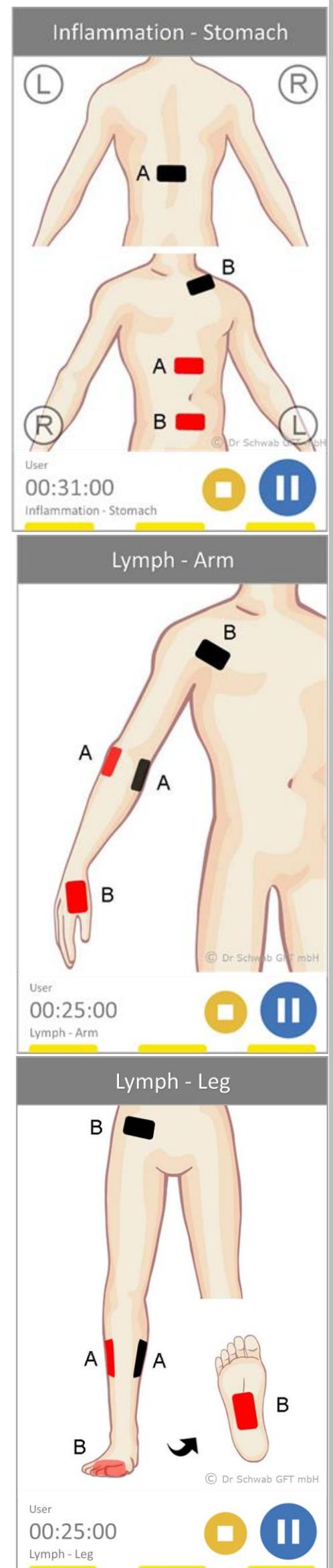
Please read Inflammation – Liver for details.

Lymph - Arm

This program is usually done to clear lymph blockages. You can also do it systemically as a preventive healthcare therapy.

Lymph - Leg

This program is usually done to clear lymph blockages. You can also do it systemically as a preventive healthcare therapy.



Rehab Head, Neuralgia

A disorder in the central nervous system is the cause of numerous ailments such as Stroke, Parkinson disease, multiple sclerosis, amyotrophic lateral sclerosis (ALS), Alzheimer disease, muscle dystrophy, pains caused by spinal spondylosis, carpal tunnel syndrome, etc.

This is not to be taken as a cure for nerve disorders; however, it is one of the few treatments that can be applied safely in the brain to manage such disorders effectively.

Rehab Head, Spine

This is to compliment the program Rehab Head, Neuralgia to include the spine to complete the Central Nervous System.



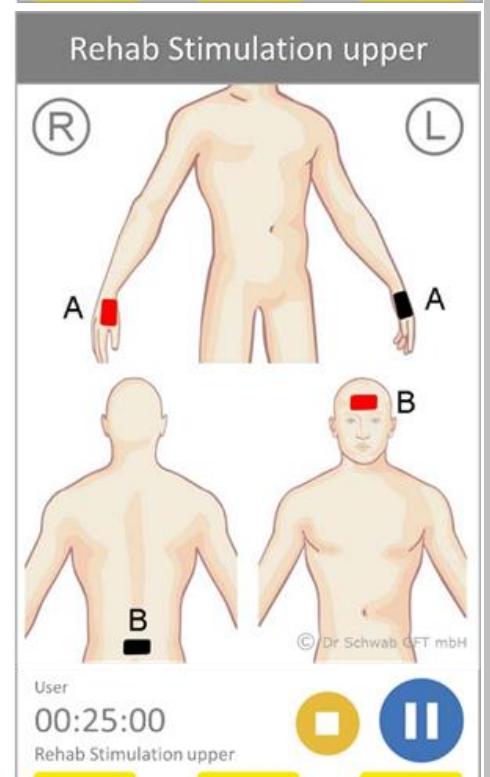
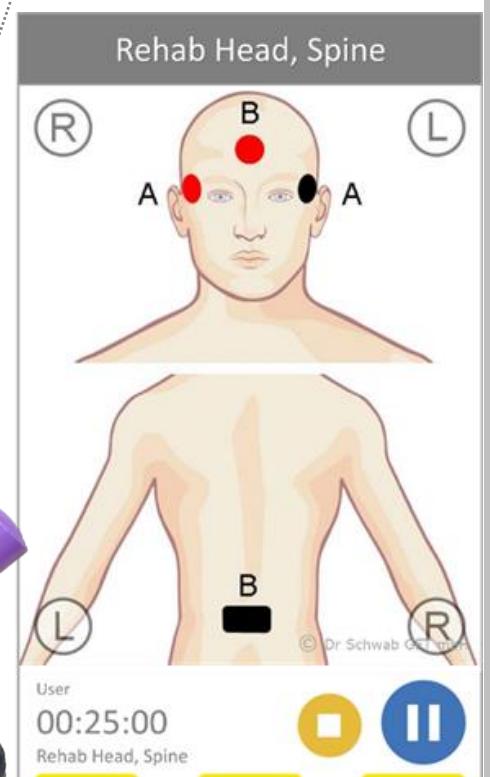
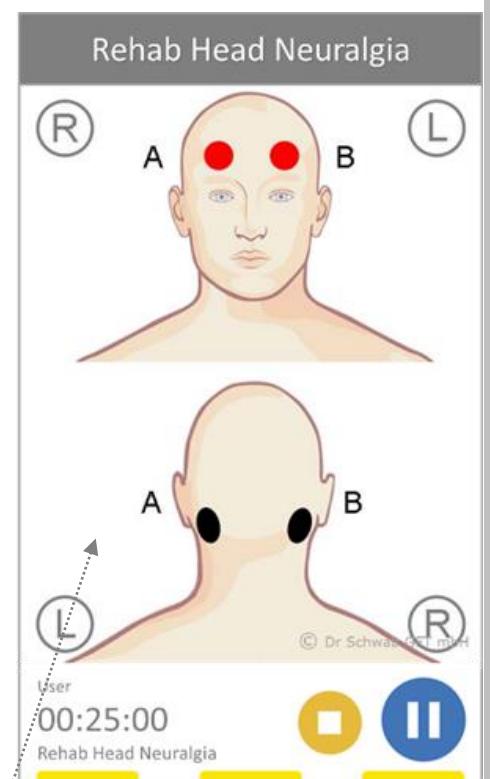
Rehab Stimulation Upper

This is the systemic application of the program Stimulation. It can also be done locally as in Rehab Speech, Swallowing.

! INFORMATION:

A disorder in the central nervous system is the cause of numerous ailments such as **Stroke, Parkinson disease, multiple sclerosis, amyotrophic lateral sclerosis (ALS), Alzheimer disease, muscle dystrophy, pains caused by spinal spondylosis, carpal tunnel syndrome, etc.**

This is not to be taken as a cure for nerve disorders; however, it is one of the few treatments that can be applied safely in the brain to manage such disorders effectively. See pages **39-40**.



Rehab Stimulation Lower

The is the systemic application of the program Stimulation. It can also be done locally as in Rehab Speech, Swallowing.

Rehab Stimulation Body

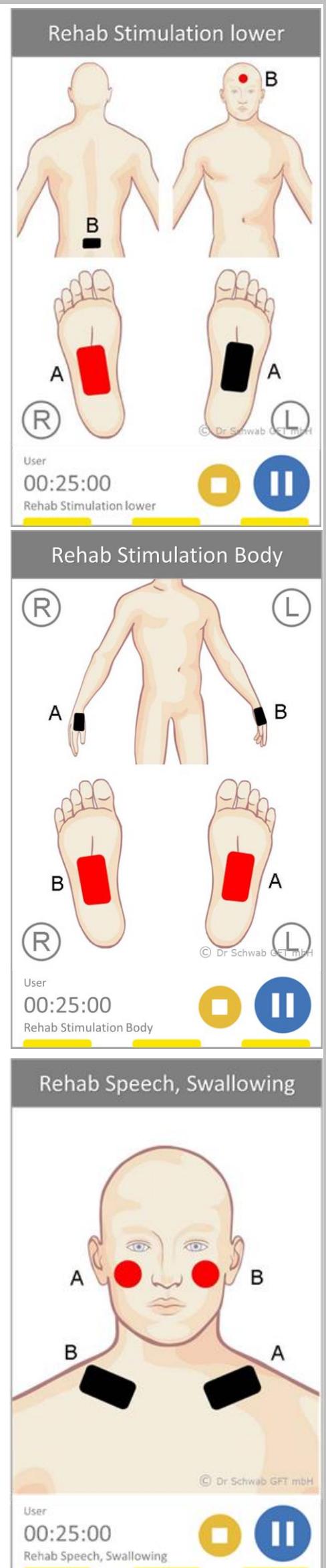
The is the systemic application of the program Stimulation. It can also be done locally as in Rehab Speech, Swallowing.

Rehab Speech, Swallowing

The application is usually localised to stimulate growth in the area.

For patients with brain related neurological conditions like Stroke, it is always used in combination with Rehab Head – Neuralgia.

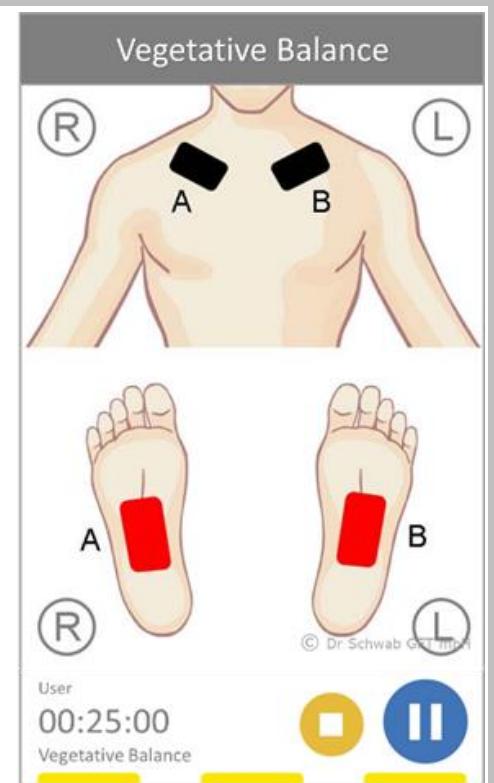
Stimulation can also be applied systemically.



Vegetative Balance

The Vegetative Balance leads to inner harmony and balance after exertion and stress. Use this application exclusively in a resting phase, or in the evening, because you will achieve a very relaxed state after this.

Using this program to rehabilitate internal organs is very beneficial.



Evolution of BCR devices from 2002 – 2022.

Luxxamed HD1000

Year 2012



Clinic-Master Professional

Year 2003



Clinic-Master MSG1200

Year 2002



Luxxamed HD2000 Year 2014



Luxxamed HD3000

Year 2014



Power2Cell

Year 2015



Premium

Year 2022



Evolution of BCR Devices since 2002



ABOUT BCR[®]

BCR (Biological Cell Regulation) is a treatment modality which aims to regulate disrupted cell metabolism back to its normal level. It is a treatment system developed and trademarked in Germany in the year 2002. This new concept is not taught in medical schools yet.

BCR does not work in the same manner as the usual rehabilitation systems like TENS, Ultrasound, Shockwave and several other systems used in hospitals. While most conventional therapies work on the pain gate theory to distract pain messages flowing to the brain, BCR works directly at the cellular level alleviating pain by way of regulating cell metabolism. This is certainly the more wholistic way to treat.

Another feature that distinguishes BCR from normal therapies is the use of bio-cybernetics to automate the treatments.

CELL METABOLISM

As we know all living organisms are made of cells. Groups of different types of cells make up the organs and the entire organism. Cell metabolism is the chemical processes happening within each cell which is responsible for the healthy functioning of the organ and the organism as a whole.

All healthy cells need energy which is derived from the nutrients in the food digested in our stomach. These nutrients carried in our blood enters the cell through the cell membrane through the process of diffusion and are converted into energy by the chemical processes in the cell, that is cell metabolism. In short, cell metabolism produces the energy needed for the healthy functioning of the organs and the organism as a whole.

CELL METABOLISM - DISORDER

Let us look at the relationship between cell metabolism and ailments. This will help us understand the therapeutic benefits of regulating cell metabolism.

During ailments cell metabolism is found to be in disorder. It is seen that injuries, infections and inflammations cause shifts in cell metabolism towards hypo or hyper states. Hypo metabolic states are seen in degenerative conditions with too little energy and activity at the tissue level. Hyper metabolic states are common during acute inflammatory stages with too much energy and activity at the tissue level. Thus, the well-known applications of cold and heat (Yin & Yang in TCM) during treatments, cold being applied to cool down hyper metabolic state and heat being applied to stimulate hypo metabolic state.

VOLL'S THEORY (Please also refer to page 11)

The treatment method in BCR system is inspired by Dr Voll's theory linking bioelectrical measurements to the pathology in the body. A reading of bioelectric impedance is taken between 25k Ω to 600k Ω . The treatment target is to achieve the resistance of 95k Ω which represents the balanced energy point where cell metabolism is optimised and the body is able to self-heal and self-repair the affected tissue, organ or organism as a whole. Pain conditions are also symptoms of deviations from balanced energy points. Therefore, regulating deviated energy points back to the balanced point of 95k Ω help in alleviating pain problems, in addition to also accelerating the body's ability to self-heal and self-repair.

CELL METABOLISM – THERAPEUTIC APPROACH

This theory points to the causative role of cell metabolic disorders to ailments, in addition to anatomical and physiological changes. It then becomes useful to also appreciate the curative role of regulating cell metabolism. This gives the opportunity of an alternative therapeutic approach as a valuable adjunct to conventional methods.

SUPPORTED BY CLINICAL STUDIES

BCR treatments are fully supported by evidence-based clinical studies conforming to medical device registration standards of Germany. However, BCR treatments are considered 'Alternative Medicine' in Asia because the subject is not taught in Asian medical schools yet. It is not due to the lack of evidence-based clinical studies.

BCR treatments has had extensive clinical experience with Medical Doctors in European countries for over 18 years, and in Asian countries UAE, India, Malaysia, Thailand, Indonesia, Hong Kong, Vietnam and Philippines for nearly 14 years.

DRUGS & SURGERIES

The positive aspects of Drugs & Surgeries are very well understood,
BUT NOT their associated risks, side effects and serious complications.

Make them your first choice for emergency health situations.

For non life-threatening chronic ailments
please make them your LAST RESORT.



Contact:



www.bcrtherapie.com

When all other treatments fail,

Try **BCR**[®]

Treating Systems not Symptoms