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WINBACK BRINGS A REVOLUTIONARY EVOLUTION IN THE PHYSIOTHERAPY BY COMBINING THE MANUAL THERAPY EXPERTISE AND THE TECAR ENERGY. CALLED TECARTHERAPY, THIS THERAPY IS AN ANALGESIC TREATMENT AND FAST HEALING FOR THE MUSCLES AND JOINTS DISORDERS AND THEN ACCELERATE PATIENT REHABILITATION.

"With my new generation, I get unexpected progress in acute and chronic conditions, making the treatment more efficient, faster and more motivating for my patients."

The New BACK™ displays a very unique and unseen minimalist style in the TECARTHERAPY universe. An elegance that leaves a structured space for its accessories and allows an easy handling via an touch screen. Its shapes and modular options (trolley or wallet) fit perfectly the therapist needs either in his Office or for his mobility.

The BACK™ outline evokes the efficiency and the lightness that we also find with the embedded and progressive technology. Since its conception, the BACK™ has had the vocation to combine the pristine TECAR signal and its optimization by the using the new electronics components and the most demanding manufacturing methods in the medical community.

At each stage of its design, the BACK™ received special care to reach a level of quality for the best comfortable use.
The **BACK3** is a monopolar generator of alternative current with two frequencies (0.5 & 0.3 MHz) passing through the human body by two electrodes. The Scientific studies have shown that the frequency band between 0.3-1.2 MHz speeds up intra and extra cellular exchanges combined or not with a localized diathermy effect.

In this configuration, the energy is supplied by the active electrode, and then goes through the body’s patient to be recovered by the passive electrode. The crossed biological tissues do not have the same resistance, as high tissue impedance (high water composition) requires little power to cross over, and on a contrary a low impedance tissue involves a significant recruitment of energy.

### THERAPEUTICS EFFECT

**STIMULATION OF BIOLOGICAL SYSTEMS**

#### MUSCLE AND JOINT SYSTEM

The current permeabilizes cell membrane by playing on the electrical potential difference of the cell. The polarity changing of the alternative current will constantly disrupt the intra and extra polarity of the plasma membrane. This phenomenon stimulates the ATP pump which will rebalance the membrane’s polarity and thus speed up the cell metabolism in a organic way. The current flow is greatly facilitated by the water tissues as the soft tissus (muscles, fascias, tendons...) which react better than very hard tissue (bones).

#### NERVOUS SYSTEM

Thanks to the fast alternative polarity, the high frequency current disturbed the constant bio electrical current received by the neuron. Then pain message inhibited by the cell which stop transmission to the central nervous system.

#### LONGER LASTING ANALGESIA

**CIRCULATORY & LYMPHATIC SYSTEM**

By varying its intensity (ampereage), the current raise the tissue temperature. Called diathermy, this effect is varying depending from athermic to hyperthermic effect. The diathermy localized triggers a vascular and lymphatic exchange thank to the body temperature self-regulation function. The therapeutist controls the heat intensity at any time by patient and its feedbacks. He manages the intensity with the power output, the speed of movement of the electrode and its size.

#### ELIMINATE MUSCLE SPASM & FIBROSIS

**IMPROVE VENOUS & LYMPHATIC REABSORPTION**
**SOFT TISSUES ACTION**
CAPACITIVE CET

**PRINCIPLE:** Increase electrical energy close to the active electrode area. Thanks to the electrode isolated, the current is transferred through accumulated charges from the electrode to the body patient.

**TISSUE:** the reactions produced are mainly focused on muscles and fluid tissues located near the electrode.

**APPLICATION:** use like a massage to release tension (fibrosis, muscle spasm, pain, edema) and increased the movement.

**DEPTH:** 2 depth levels exist (superficial and deep). Thus, Winback is the lonely technology with a superficial or deep action capacitive method. Then the disorder could be reached disorders in depth. This approach avoids the skin overheating and therefore significantly improve the patient comfort.

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**ELECTRODES**

**CAPACITIVE**

**RESISTIVE**

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**HARD TISSUES ACTION**
RESISTIVE RET

**PRINCIPLE:** the power flows through all the deep tissues between the uninsulated active electrode and the passive electrode (return plate).

**TISSUE:** greater resistance of the joint tissue : tendons, ligamentary capsules, bones, muscular contraction. These tissue focus the energy at a higher level than in the fluid zones.

**APPLICATION:** action with the possibility to mobilize, massage, practice, muscular reinforcement. By contracting muscle tissue, the therapist could concentrate the energy on this tissue.

**DEPTH:** The action is acting on all joints crossed by the energy (multi joint actions). By selecting the position of the electrodes, the therapist define the current way.

**WINBACK**
The power is non-invasive and crosses the practitioner hand who feels better the tissue evolution. All manual therapy techniques are applicable with this method.
In capacitive mode, Dynamic function scans tissues layers in order to eliminate tensions localized (superficial and deep). The tissue is stimulated by different deep levels to soften and restore the biomechanical movement functions.

LOW PULSE
This function offers to optimize energy effect for some treatments in CET and RET mode:
- Optimize energy with minimum diathermic effect on inflammatory and acute traumatisms.
- Stimulate the pump Lymphatic acceleration on nodes.
- Avoid the rebound effect after the treatment.

SUPER PULSE
This function recruit vascularization system and focus the fluid in order to re-vascularize fibrosis and spams.

360°
The neutral adhesive plates allow a treatment in a dynamic position and postural. The treatment can be done in all positions (standing up, dynamic sitting). You could match your treatment with a muscular reinforcement equipment.

AUTOMATIC PAD
The neutral adhesive plates allow a treatment in a dynamic position and postural. The treatment can be done in all positions (standing up, dynamic sitting). You could match your treatment with a muscular reinforcement equipment.

The Radiofrequency has widely proved its usefulness in the areas of orthopedic surgery, medicine aesthetic and recently in the physiotherapy. In fact, studies show that over 20 years therapeutic effects stimulate tissue regeneration and relieve pain.

In 1992, the scientists have studied a new form of radio frequency by varying several parameters such as frequency modulation and the energy transfer (TECAR).

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In the treatment of musculoskeletal disorders, TECAr has been found effective in reducing pain and improving mobility. The mechanism of action is thought to involve the stimulation of tissue repair and regeneration.

**Biology**
- The behavior of biological tissues (articulation, bones, muscles) changes by varying the frequency and, the best biological results are between 300 KHZ and 1.2 MHZ because of the cell membrane permeability.
- The heat dissipation of the tissue is more significant by the frequency rise or the radiofrequency intensity.
- Non-invasive At the frequency studied, the action is not invasive and totally safe in regard of the tissues.

**Diathermy**
- The heat generation of the tissue is more significant by the frequency rise or the radiofrequency intensity.
- Non-invasive

**Treatment**
- 2x faster on musculotendinous cuff

**Efficiency Rate Pain Recognized by the Patients**
- Study: Diathermy and Radiofrequency for lumbago, Takahashi K, No Tsuzuki K, Department of Internal Medicine, Saitama Medical Center J, 81.6%, 1983.
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REHABILITATION PHYSIOTHERAPY
APPLICATIONS

TRAUMA & RHEUMATOLOGY

The TECATHÉrapie fits all chronic and acute injuries. Treatment gives visible results from the first session (movement gain, pain relief, revascularization). The Biological return optimizes the healing process while limiting fibrosis. In upshot of surgical intervention, the effusions and edemas are reduced thereby facilitating invasive treatment. In downstream, treatment absorbed inflammation and boost the rehabilitation period. Without pain and inflammation, the patient anticipate the physiotherapy program with immediate results during the first sessions.

PAIN

The Therapy is acting on the nerve terminals by blocking the conduction of painful stimuli. The rapid elimination of pain is crucial for an efficient physiotherapy. The therapist can begin the treatment with faster action and deeper. The physiotherapy becomes more efficient and dynamic (increasing the patient’s chances of recovery by movements). The analgesia can install an analgesic effect for a period greater than 48 hours during the first treatment. After 5 sessions, the analgesic effect is long lasting.

LYMPHATIC

The capacitive energy increases the lymphatic flow. The BACK3S technology optimizes manual massage techniques and accelerates resorption. Although the immediate effects, the treatment focuses on the mechanical effect, which means the rapid evacuation of excessive fluid. For a long lasting effect, it is recommended to identify the origin of the lymphatic disorder which may be hormonal.

OSTEOPATHY / CHIROPRACTIC

Manual expertise associated with the BACK3S biological energy releases the body blocking areas and voltages tissue, which cause functional disorders. Using technical gestures and careful and precise touch, the therapist will find a deep action to facilitate the rehabilitation of the posture. He will manage the pain and avoid the rebound effect after the session.

SPORTS PHYSIOTHERAPY
APPLICATIONS

The therapist is not limited to face consequences of sport’s trauma and plays a role in the management of all athletic follow-up.

WINBACK® Medical is involved with many medical sport boards federations to educate patients on his physical activity benefits for health capital. WINBACK® Medical is also present with physiotherapists accompanying and caring for professional elite and amateurs.

PREPARATION

The physiotherapist develops a program personalized with aches of the professional (sport). He ensures body good working and prevents any traumatic gestures. Its BACK3S massage rebalances the biological exchanges and reoxygenates the muscles which will be solicited for sustained and intense effort.

After a competition or a great effort, a deep massage with BACK3S recovers effectively the muscles who have been severely used by intensive effort. These stimulating and therapeutic gestures will restore joints and muscle tonicity.

PREVENTION

The mission of the sports physical therapist is to identify the weaknesses of the biomechanical functions of his patient. He associates a program of strengthening with the rehabilitation to prevent injuries. He will indeed correct posture to avoid the wrong initiator gesture weakness.

SPORTS PHYSIOTHERAPY
APPLICATIONS

WINBACK® Medical is configured for one version on a cart or mobile with a case.
TECARTHERAPY improves physiotherapist manual therapy based on the BACK® energy. However, there are the automatic treatments programs for the "RELEASE" and "CALM" steps.

RELEASE injure and the pain
WINBACK® quickly triggers a deep massage and analgesic action. Its actions touch nerves, muscles, joints, and the fluid circulation to eliminate stress and to reactivate movement. The Energy flows back into the injured tissue and the patient feels immediately the benefits of this treatment.

TECARTHERAPY improves physiotherapist manual therapy based on the BACK® energy. However, there are the automatic treatments programs for the "RELEASE" and "CALM" steps.

HEAL injure
The therapist focuses the WINBACK® energy to regenerate the damaged tissue. Its principle is based on accelerating the natural self-healing system of the body promoting intra and extra cellular. The treatment is more static and Myback may feel the tissue evolution.

SESSIONS
Duration: 10 to 25 minutes - Number: 3-7 sessions
Frequency: 1 per week standard - boost time per week

REINFORCE biomechanic structure
The last phase is to reinforce the body to help in its functional physiotherapy. The therapist mobilizes the functional structures to help them to support the injured tissue.

CALM (optional)
In this phase, the therapist also drains the area To evacuate to remove the toxins from the cells that have been needed. This treatment option is recommended after an intense meeting energy to avoid the rebound effect overnight.

THERAPEUTIST. Loic,
The Tecartherapy is a fast and efficient method fits all my manual techniques (oste, trigger point, MTP raising tension, ..) I am always working with my hands and I feel the evolution of any tissue on any depth.

PATIENT. Justin,
I also feel the therapeutic benefits (pain reduction, release amplitudes ...) from the first session. It's motivating and I want to actively involved in my physiotherapy.
TESTAMONIALS
THE WIN BACK SPIRIT

As a therapist, I everyday use this therapy and I do not get enough of it, the results are there on so many pathologies encountered in private practice. My patients love it, I’m with them, I listen, touch. Each treatment is individual and suitable for everyone. I even get professional prescriptions for the Tecartherapy, the benefits are there. I carry the burning enthusiasm in high-level playing national teams and they are cared for by the rejection after big injuries. Today things are going well and their careers as well. I give them to WINBACK® and its team that makes me love my job a little more each day.

Alexandre Dauguet, Physical Therapy.

I have discovered the TECARTHERAPY techniques and I’ve quickly appreciated the benefits for both patients who feel better than for my ego which finally is satisfied by a technical obtaining results. On persistent problems. I may precise that I am neighborhood physiotherapist and I can receive a top athlete as well as an elderly person moving with difficulties. On these two types of patients I use this technique with the same satisfaction. I’m not saying that this is the solution but it helps me very well in caring my patients.

Pierre Blanc, Physical Therapy.

Physiotherapist for over 10 years now, I always wanted to invest in a reliable and quality equipment but above all effective and efficient! This is now done with the WINBACK® which has altered consequently the way I work every day! Using this tool for me is today difficult to forget! It saves huge time for me. In fact, I was able to quickly remove some locks on manual therapy. The sessions are better lived by my patients who leave very relieved from their first session. The different applications and the few against indications make me use totally the WINBACK!

On the WINBACK® efficiency, you can add a relationship and high quality of the after-sales service.

Johan Quintard, Physical Therapy.

TECHNICAL CHARACTERISTICS
PACK BACK3S

BACK3S:
Capacitive power: 400 VA
Resistive: 150 Watts
Frequency: 2.3-5.5 kHz
2 levels deep in capacitive mode

Accessories:
5 capacitive electrodes, 3 resistive electrodes, Return Plate, Plate 360, Automatic PAD, Pack conductive creams and disinfectants,

TROLLEY - ACCESSORIES SUPPORT:
Dimension with trolley: 450*370*1000 mm - weight : 28 kg,
Mobile size: 450*370*200 mm - weight : 8 kg,
CE MEDICAL (2 years warranty) Equipment.

TRAINING & MARKETING:
Training:
one day in our training centers,
Marketing:
1 display flyer
100 patients flyers - 100 flyers prescriber
2 posters - internet referencing
appointment card - 1 street sign.
Our approach is to offer new technologies for the best price without sacrificing service. In our training center, our experts explain all the techniques and useful tips to your expertise.

Christophe BUEE
Fondateur WINBACK® Medical