

SCENAR THERAPY APPLICATIONS

Coleman S., Gloucester, Great Britain

The Combination Of SCENAR And Activity Based Program For The Rehabilitation Of Individuals Affected By Paralysis**Aim**

The regime of exercise therapy that was combined with SCENAR for this study was adapted and modernised from the Dikoul Institute in Moscow, Russia. This type of exercise therapy involves working one-to-one with a patient for up to four hours a day, for five days a week, and usually for a number of weeks. The regime of exercises includes Passive flexibility, passive strength, passive-active strength, active strength, balance and coordination, and gait retraining using weight-supported harnessed treadmill, parallel bars, and walking frames/sticks.

The hypothesis for this type of exercise therapy was that patterned neural activity by repetitive exercise stimulates the central nervous system to become more functional, as it does during development (ASIA, 1999) and might help to recreate neuro-pathways.

SCENAR-therapy was combined with this type of exercise therapy because the repetitive input of neuro-impulses would wipe out adapted central nervous system patterns and might physiologically help the body to regenerate these neuro-pathways.

Twelve Spinal Cord Injured (C4 - T12) and Two Head Injured Patients were treated for a number of weeks (2 - 45 weeks) using the above combination of treatment. The main findings were that patients reported:

- Reduction in Pain;
- Improved bladder/bowel function;
- Reduced spasm/clonus;
- Improved Strength;
- Increased Sensation;
- Decreased Hypersensitivity;
- Increased Movement;
- Increased Range of Motion;
- Increased Energy/Feeling of well-being.

One Head Injured client, injured in 1998, was unable to provide real logical feedback with regards to his improvement. However, an independent consultant noted an increase from 0.1% (Nov 2001) to 5-10% (Nov 2002) of total brain function.

Through long-term treatment the combination of SCENAR and Exercise Therapy has shown to be extremely beneficial in improving a wide range of human physiological functions, even after over 28 years of paralysis. In order to maximise the benefits, treatment is required immediately after the injury has been sustained. Further studies are required in order to compare the benefits of this combination of treatment to the individual modalities.

SCENAR TECHNOLOGY OVERVIEW

The name SCENAR derives from: **Self-Controlled Energo-Neuro-Adaptive Regulation.**

The SCENAR is an electronic-therapy device invented by a team of Russian Scientists (Alexander Karasev and Prof. Revenko) and developed further by RITM OKB ZAO in the 1980's for use in space, where cosmonauts would have a means of treating themselves in orbit, without the need to take drugs.

RITM OKB ZAO is the only manufacturer of the original SCENAR technology.

RITM OKB ZAO now has set up a branch in Australia - RITM Australia to provide local support for their products - SCENAR devices for Professionals and Home user and Healing Blankets.




RITM SCENAR devices are CE Mark certified (the highest standard for manufacturing medical devices in the world), ISO 9001, ISO 13845.

RITM SCENAR devices are also included in the Australian Register for Therapeutic Goods Administration under TGA # 140659.

At present the SCENAR medical devices have been recognized in 60 countries all over the world: the United Kingdom, Australia, New Zealand, the Netherlands, Austria, Germany, Italy, Israel, Hungary, Czech Republic, Turkey, South Korea, the US, etc.

Over 6,000 doctors are now using the Scenar as an integral part of their medical practice.

The product range includes professional devices and devices for home users and sportsman, Healing Blankets and accessories.

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|  | Professional series SCENAR devices – for medical practitioners and therapists |
|  | Home SCENAR device series – sportsmen and personal home use |
|  | OLM Healing Blankets and their modifications |