



MicroVas Was Featured In HealthSouth's Outcomes Magazine

Article written by Gamal Lucius, Senior Physical Therapist for the HealthSouth Rehabilitation Hospital of Tulsa, OK after their completion of a two-year clinical trial.

In November of 1999, HealthSouth Rehabilitation Hospital of Tulsa, OK, opened its doors to a treatment device for wounds called MicroVas.

MicroVas is an electronic therapy system used to increase circulation to an extremity or body part in order to speed wound healing. Since the hospital started using the device, it has made a marked improvement in speeding patient recovery.

The treatment concept itself is not new to the wound care arena. For over a century, healthcare has used some form of electrical stimulation to treat wounds. In the Mid to late 1900s physicians used high-tech, high volt electrical stimulus. The form of electrical current used in the MicroVas device originated in the Navy in the 1970s. It was used to stimulate circulation in sailors who suffered from hypothermia.

Today, the circuitry system used in MicroVas employs a digital current source to create a powerful waveform. The waveform penetrates deep within the body and acts upon the muscle and soft tissue formations. (There is also a modified component in the waveform that acts to stimulate the nerve endings and nerve centers.) Combined, they create a broad-spectrum force field. This field is directed to specific targets by placement of emitter and receptor pads in a position relative to the target areas.

The intensity of the waveform is variable, with treatments lasting approximately 45 minutes. Treatments are performed with little discomfort to the patient. HealthSouth uses MicroVas not only to increase circulation to the extremity or area, but in some cases to stimulate angiogenesis and neurogenesis, which in turn speed wound healing.

The response to MicroVas at the hospital has been phenomenal. In most cases, non-healing diabetic foot or leg ulcers have been completely healed. In one case, a diabetic patient faced possible amputation of almost half her foot due to an infected, gangrenous toe. With only two weeks of MicroVas treatment, daily wound care and assessment, the patient was discharged requiring only the amputation of the toe—the rest of her foot was saved.

A diabetic patient had a large heel ulcer on her right foot, a large wound on her upper left thigh, and several small dehiscd areas on both lower extremities from a recent vein stripping surgery. The surgery was intended to improve circulation to her lower extremities. Within the first week of her three-week inpatient stay, all of the dehiscd areas on both lower extremity incisions had healed completely. By the time of her discharge, the wound on her upper thigh decreased in size by 70 percent.

The heel wound had gone from 90 percent necrotic upon admission to 100 percent ranulated and clean with a percent decrease in size. The patient continued wound care and MicroVas as an outpatient for an additional eleven weeks. At the end of her treatments in mid August, all wounds were healed.

95% Total Positive Outcomes

We have reached the two year anniversary of treating patients here at HealthSouth Rehabilitation Hospital of Tulsa, with the MicroVas Vascular Treatment System . . . have had over 95% total positive outcomes with MicroVas — a tremendous success in wound care and pain management.

Thank you for sharing MicroVas with us here at HealthSouth.

Letter from the former CEO
HealthSouth Rehabilitation Hospital of Tulsa
Letter dated November 8, 2001

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