

# vay: Genesis



## The New Standard For Chronic Back & Neck Pain



Patients around the world are discovering how  
this new technology alleviates chronic pain.

# VAX-D Medical Technologies

## About VAX-D

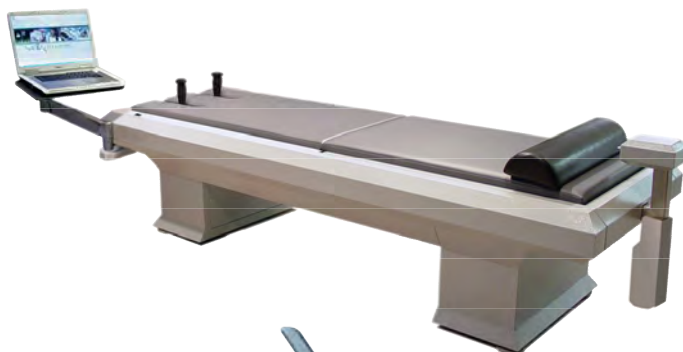
VAX-D Medical Technologies is a physician owned company providing advances in medical technology for physicians. The company developed, patented, and manufactures the VAX-D Genesis System for the treatment of chronic back and neck pain.

Back pain is one of the most significant musculoskeletal problems in the world. VAX-D has become a leading alternative to back surgery. VAX-D systems are being utilized by hospital systems and private clinics across the country, in the fields of Orthopedic Medicine, Neurosurgery, Pain Management, Occupational Medicine and Chiropractic care, and Physical Therapy. VAX-D is currently available in the United States, Canada, Mexico, Columbia, Australia, United Kingdom, Italy, Guatemala, Spain and Thailand.

VAX-D treatment is a safe, cost effective, non-surgical treatment that offers new hope for the millions of people who suffer from back and neck pain everyday.

**For Information call Dr. Mark Steffine  
Tel: 954-235-7231**

**Email: [mark@vaxd.com](mailto:mark@vaxd.com)**



Helping People Get Back To Life



# VAX-D Genesis System

VAX-D Medical Technologies has been pioneering technology in the field of back pain since 1985. We introduced the first decompression table to the world. **VAX-D treatment has now become a leading alternative to surgery for chronic back pain.**

The **Genesis G3 System** offers ground-breaking technology for non-surgically decompressing the spine and discs, and provides the first real advances in cervical treatment in the past fifteen years.

Your control center is a 17" Notebook computer. More reliable and easy to use. For the first time, the system has '**Biofeedback**' in its motion control, that continuously monitors and adjusts treatment.



## **Multi-Axis Technology....**

**All other spinal decompression devices move in one straight-line dimension. Genesis has the unique ability, in that the tensioning source can be programmed to move simultaneously in the horizontal plane and the vertical plane to follow the curves of the spine.**



The electronic cell that measures the tensions is separate from the tensioning source, creating a **biofeedback loop** that accurately measures what's being applied to the patient. This system accurately tracks the horizontal and vertical movement curves and continuously adjusts position and tension at the same time.

These advances significantly increase patient comfort and muscle relaxation.

Our equipment is also more compact, portable and durable than ever. **Patients can be treated prone or supine!** Our multi-axis 'biofeedback' technology is light-years ahead of the 'tower' traction units and the simple tables with a traction box at one end.

## The Dynamic Lumbar Cervical Model

The new user interface for the Genesis G3 is a 17: widescreen laptop computer. The laptop is mounted on a swivel arm that can be attached at the left side or the right side of the equipment.

The 'swivel' arm can be extended in and out or positioned up and down for different heights. This compact unit will fit in a room as small as 8' by 10'. The vertical height adjustment is motorized and programmable. An infinite number of gentle curves can be programmed in flexion or extension.



### **G3 Select Model**

The G3 Select model can be programmed to move in the horizontal plane only, but provides for a manual adjustment of vertical height. Operators make their selection prior to treatment, but height selection can be changed any time during the active treatment session.

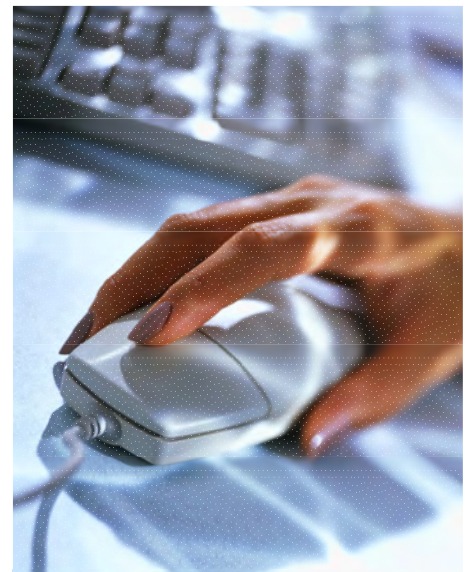


### **Digital System & Software**

The G3 software provides precise motion control with accurate force sensing and positioning through **Bio-Feedback**. The system is extremely reliable and virtually without maintenance.

The G3 digital software allows you to change all treatment parameters on the fly, during the treatment session. All patient treatment settings can instantly be recalled and **automatically loaded** into the treatment screens to get things started quickly when your patient arrives.

The software will store all patient data and complete information about each patient treatment session. You can search all files in seconds, with instant access to all patient data. The system stores chart recordings for each treatment and detailed soap-notes on the patient's condition each day.



***Discover the technology that inspires all other systems!***

## Lumbar Treatment System & Software

VAX-D Medical Technologies invented non-surgical spinal decompression. VAX-D has now re-invented the industry with 'Dynamic Decompression' technology.



What is Dynamic Decompression? Advances in motion technology enable the system to be programmed to move simultaneously in the **horizontal** and **vertical** planes. Treatment is accurate, smoother and more comfortable. You can program treatment curves in flexion or extension that feel comfortable for each patient. Choose to treat your patients in the prone or supine position.



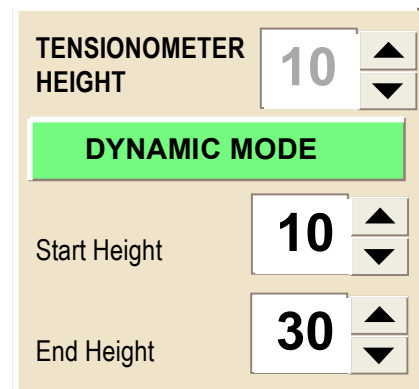
Through the **Lumbar Treatment Screen** all parameters can be tailored for each patient. Treatment tensions are graphed in 'real-time' and are readily visible on the screen. The G3 two-dimensional dynamic treatment 'arc' is also graphed and visible in the **picture-in-picture** screen.

# The Miracle of New Technology • Dynamic Performance

**G3 Dynamic** : You can choose to apply the tension to the patient, and have the tensionometer head move in a 'dynamic arc' or 'curve'. The tensionometer can be programmed to follow an arc similar to the lumbar spine or cervical spine (see figure below).

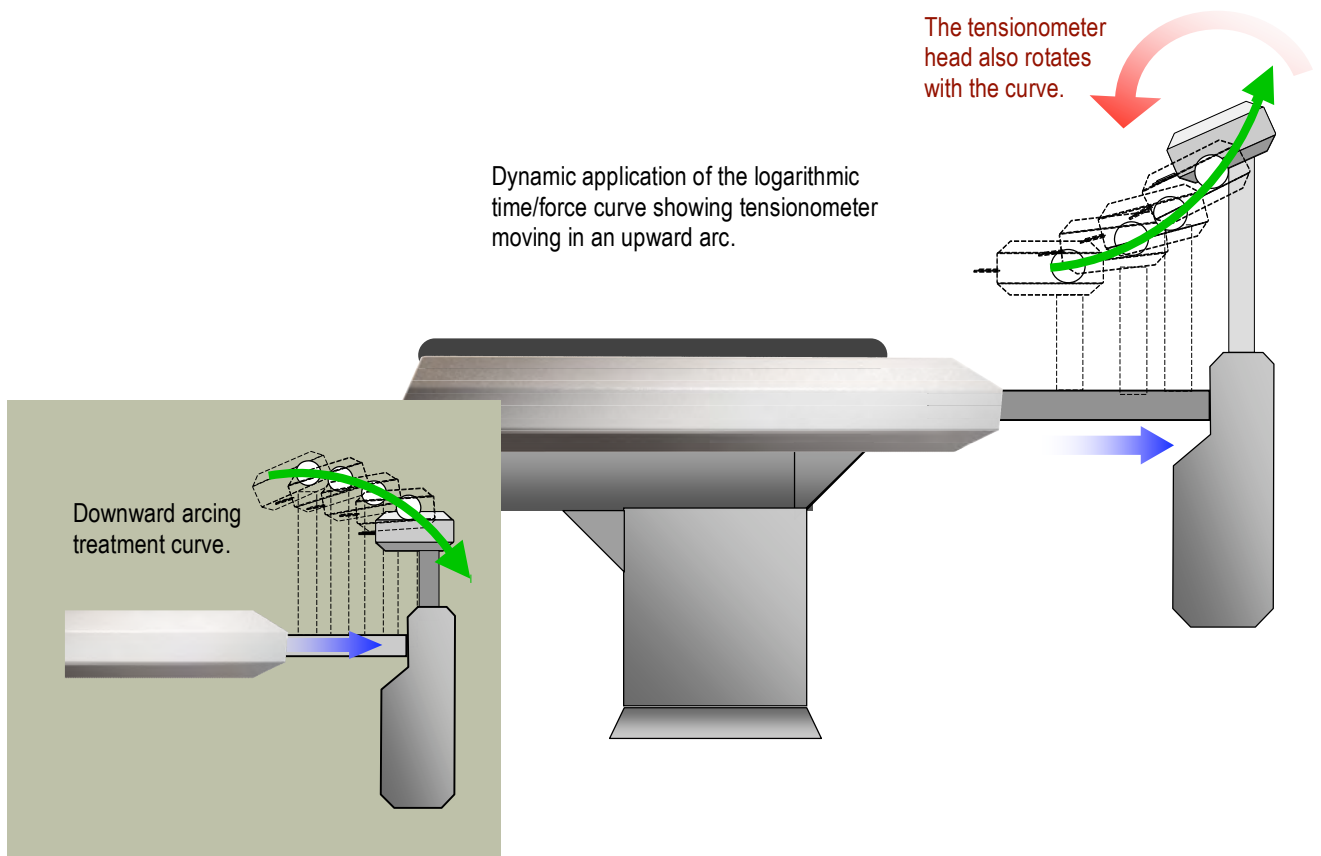
The application of the force can therefore be programmed to follow a 'lordotic curve' and the range or 'amplitude' of the 'curve' can also be selected (start height and end height) according to the patient's preference.

When the '**Dynamic Mode**' is selected, a 'real-time' bar graph indicates the position by turning a bright green color. The **Dynamic Curve** is charted at the left side of the screen during each cycle in our unique '*picture in picture*'.



The tensionometer head also rotates with the curve.

Dynamic application of the logarithmic time/force curve showing tensionometer moving in an upward arc.



## **GS Cervical • The First Major Advance in 20 Years.**

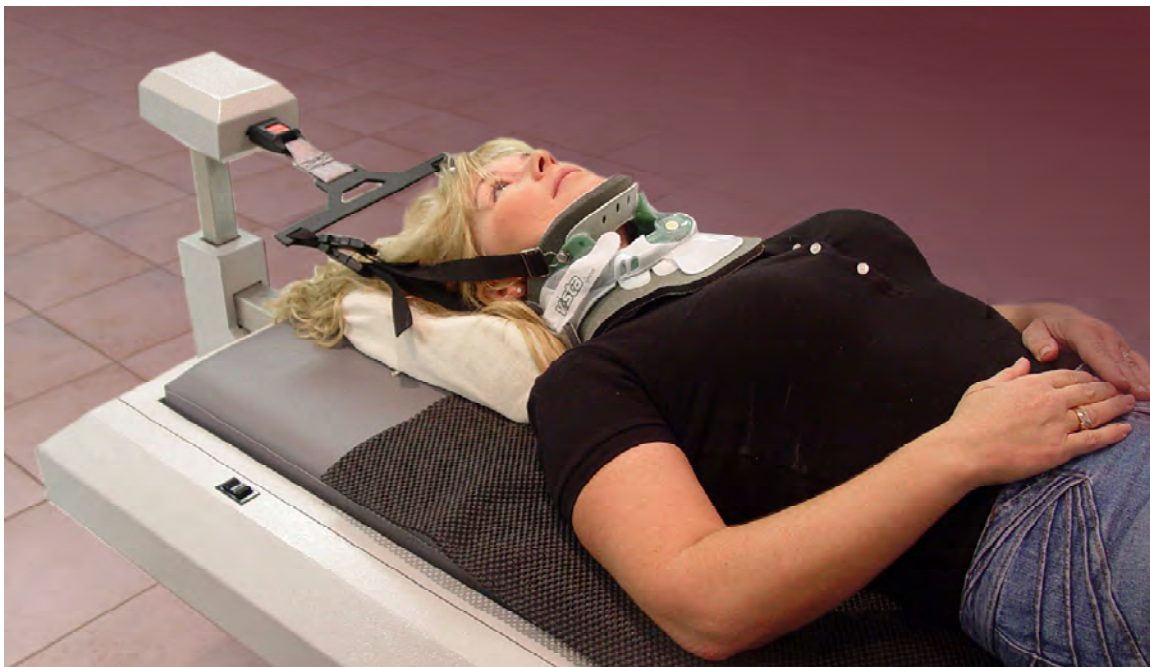
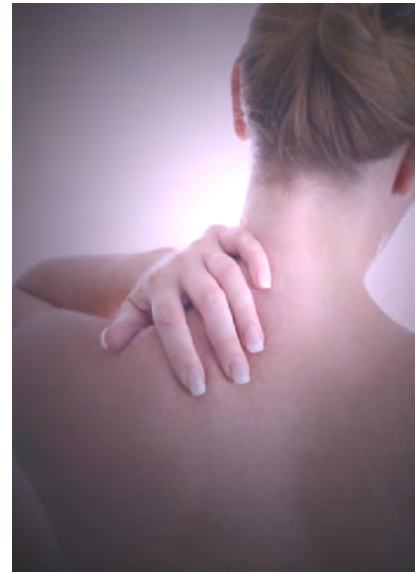
Neck and arm pain are common symptoms affecting as much as 50% of individuals sometime during their lives. There are no well-established protocols for successful conservative therapy. Traditionally, patients have been treated with a combination of medications and traction.

Patients receiving VAX-D Genesis cervical treatment are treated wearing a harness with an integrated supportive cervical collar. The collar is a critical part of the head neck harness that is designed to allow some mobility of the patient's head and neck during distraction, while providing a ***circumferential lifting system***.

The collar provides the necessary immobilization and protection for patients in the post treatment period when the muscle guarding reflexes have been reduced. Without the protection of the collar, head and neck movements will trigger muscle spasm, increased intradiscal pressure and neck pain.

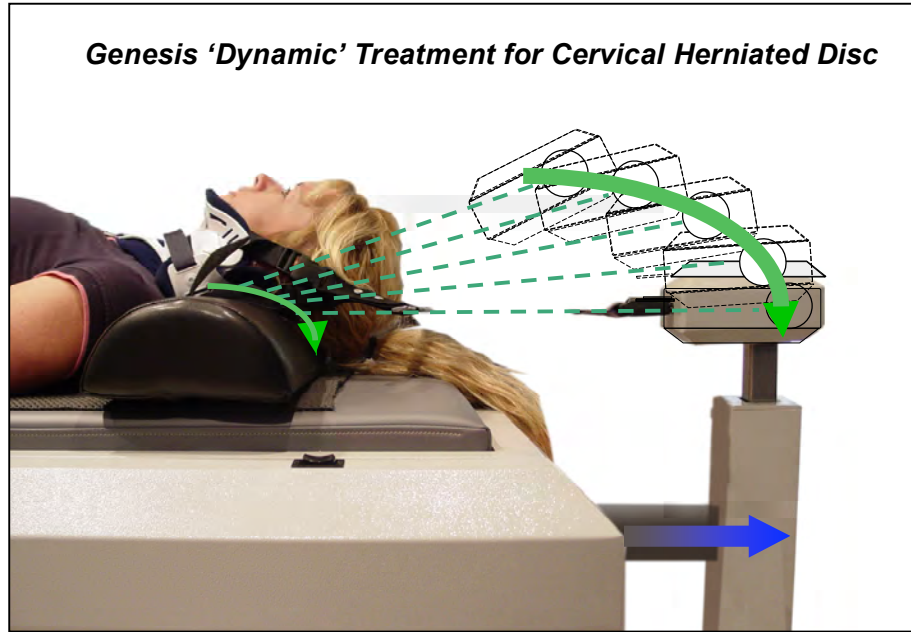
Standard traction equipment that 'fixes' the patient's head on a linear slide as it moves, does not provide the necessary mobility of our collar/harness system. There are multiple sizes to choose from. The patient wears it during the treatment and for a short period after to provide stability and to help the proprioceptors accommodate to movements of the head and neck.

**The cervical collar protocol is more than just a novel idea, its one of the absolute keys to success.**

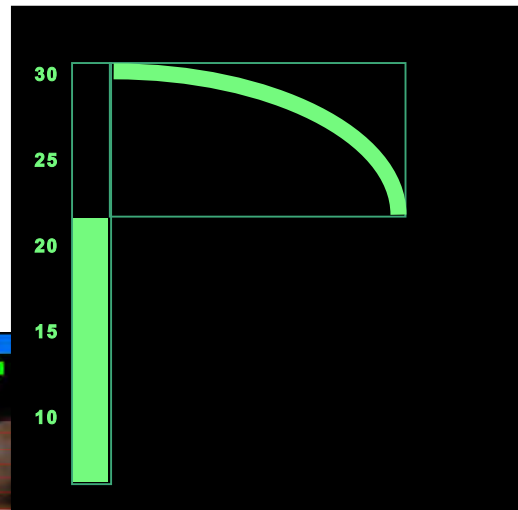


# Dynamic • Treatment Capabilities Second to None.

For some patients, they may feel more comfortable with the head and neck in 'flexion', while others need to be in 'extension' in order to apply tensile forces comfortably.



The '*dynamic arc*' and height of the tensionometer is graphed in real time, and displayed in a bright green graph on the screen. This gives the operator a visual representation of how the tension is being applied.





# VAX-D • Proven Effective in Study After Study

- **Outcomes After A Prone Lumbar Traction Protocol (VAX-D) for Patients With Activity-Limiting Low Back Pain: A Prospective Case Series Study**

Beattie PF., Nelson R., Michener L., Cammaratta J., Donely J.  
Arch Phys Med Rehabil Vol 89, February 2008

- **Short And Long-Term Outcomes Following Treatment with VAX-D for Patients with Chronic, Activity Limiting Low Back Pain**

Beattie PF., Nelson R., Michener L., Cammaratta J., Donely J.  
Journal of Orthopaedic & Sports Physical Therapy, Volume 35, Number 1, Jan 2005

- **Efficacy of VAX-D on Chronic Low Back Pain: A Study of Dosage Regimen**

Ramos G., MD,  
Journal of Neurological Research, Volume 26, April 2004

- **VAX-D Reduces Chronic Discogenic Low Back Pain- 4 year Study**

Odell R., MD, Ph.D, Boudreau D. DO  
Anesthesiology News, Volume 29, Number 3, March 2003

- **A Prospective Randomized Controlled Study of VAX-D and TENS for the Treatment of Chronic Low Back Pain**

Sherry E., MD FRACS, Kitchener P., MB, BS FRANZCR, Smart R., MB, Ch.B  
Journal of Neurological Research Volume 23, No 7, October 2001

- **VAX-D -The Fountain of Youth for the Lower Back / Acute and Chronic Case Presentations**

Yezak M. D.C., Varaday A. M.D., D.A.B.R., Elder J. B.S., M.H.A.  
Dynamic Chiropractic –Vol. 26, Issue 21, October, 2008,

- **VAX-D Therapy for Pain Associated with Herniated or Degenerated Discs or Facet Syndrome: An Outcome Study**

Gose E., Ph.D, Naguszewski W., MD, Naguszewski R., MD,  
Journal of Neurological Research, Volume 20, No 3, April 1998

- **Dermatosomal Somatosensory Evoked Potential Demonstration of Nerve Root Decompression After VAX-D Therapy**

Naguszewski W., MD, Naguszewski R., MD, Gose E., Ph.D  
Journal of Neurological Research Vol 23, No 7, October 2001

- **The Effects of VAX-D On Sensory Nerve Dysfunction In Patients with Low Back Pain and Radiculopathy**

Tilaro F., MD, Miskovich D. MD  
Canadian Journal of Clinical Medicine Vol. 6, No 1, January 1999

- **Effects of VAX-D Therapy On Intradiscal Pressure.**

Ramos G., MD, Martin W., MD,  
Journal of Neurosurgery 81: 350-353, 1994

- **Prospective Randomized Study of VAX-D Therapy for Acute Low Back Distress**

Peerless S., MD, FRCP, Meissner L., MD, FRCP  
Barnett H. J.M., MD, FRCP, Stiller C. R., MD, FRCP  
The John P. Robarts Institute, University Hospital at London

- **An Industry Based, Restrospective, Cost Analysis of VAX-D VS. Surgery For Lumbar Disc Disease:10 Case Studies**

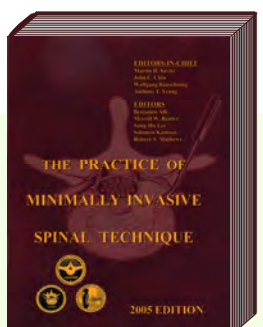
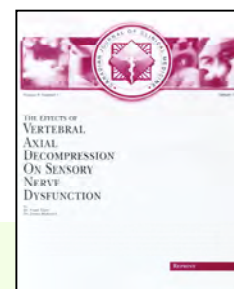
David C. Duncan, MD, Don Keenan, SPHR, Ph.D.  
Sinclair Oil Corporation Study, Tulsa Oklahoma

- **An Overview of Vertebral Axial Decompression**

Tilaro F., MD  
Canadian Journal of Clinical Medicine Vol. 5, No 1, January 1998

- **European Musculoskeletal Review - 2007**

Vertebral Axial Decompression



## TEXTBOOK CREDIBILITY: The Practice Of Minimally Invasive Spinal Technique • 2005 Edition Chapter 35: Vertebral Axial Decompression

Published by the American College of Physicians & Surgeons and The American Academy of Minimally Invasive Spinal Medicine & Surgery

# Why are spinal decompression clinics switching to the new Genesis G3?

The Genesis G3 System is the only system with the flexibility and features you need for successful cervical and lumbar treatment.

Our 'Biofeedback Motion Control' interacts with each individual patient to produce a perfect logarithmic curve for each patient.

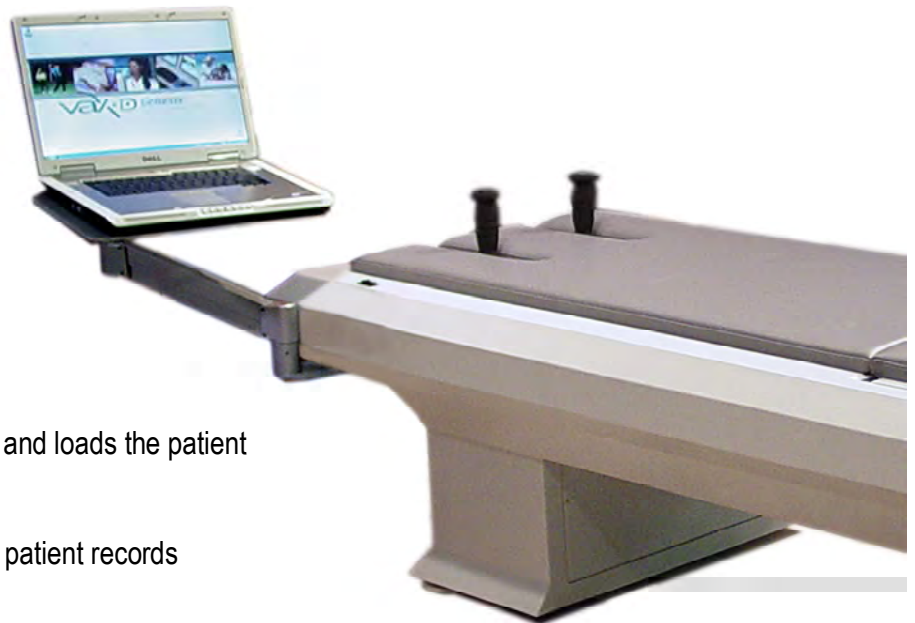
The Dynamic Mode feature allows providers to apply tension in an arc that is designed to follow the natural curves of the spine, and that is infinitely variable for individual patient comfort.

VAX-D is considered '**Evidence Based Medicine**' with a long history of peer-reviewed published research.

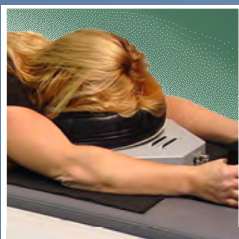
Tensions are applied in the patented logarithmic time/force relationship that has been shown in clinical study to reduce the disc pressure to levels in the minus 150mm Hg range.

The software program automatically recalls and loads the patient treatment set-up for quick starts.

The searchable Patient Database stores all patient records and treatment charts.



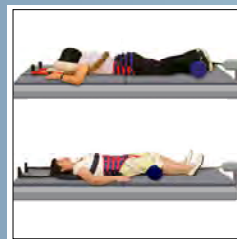
Kool-Breeze  
Face Cushion



Quality Pelvic  
Harnesses



Prone or Supine  
Treatment



Movable  
Safety Handgrips



# Treatment Solutions Made Easy

Each treatment session is 30-40 minutes in duration. Patients find treatment to be comfortable and relaxing. Patients should refrain from activities that increase their disc pressure during the course of treatment.

Each treatment table can accommodate 10-15 patients a month. Most patients experience a relief of their pain and symptoms during the VAX-D sessions, and then a gradual reduction of symptoms as treatment progresses.

Patients with shoulder problems or reduced strength can now use the new **VAX-D Arm-Rests** where they can be treated with their arms at their sides.

After a cervical treatment is completed, the tension harness is separated from the cervical collar.

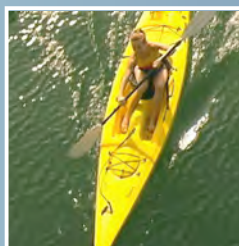
The collar should remain on the patient for a short period after treatment to immobilize the head and neck and allow proprioceptors to accommodate and stabilize the movements of the head.



## Treatment Manual



## Marketing Materials



## Clinical Support



## Accessories



## **Real Studies • Real Science • Real Results**

*All Decompression Devices are Not Equally Effective*

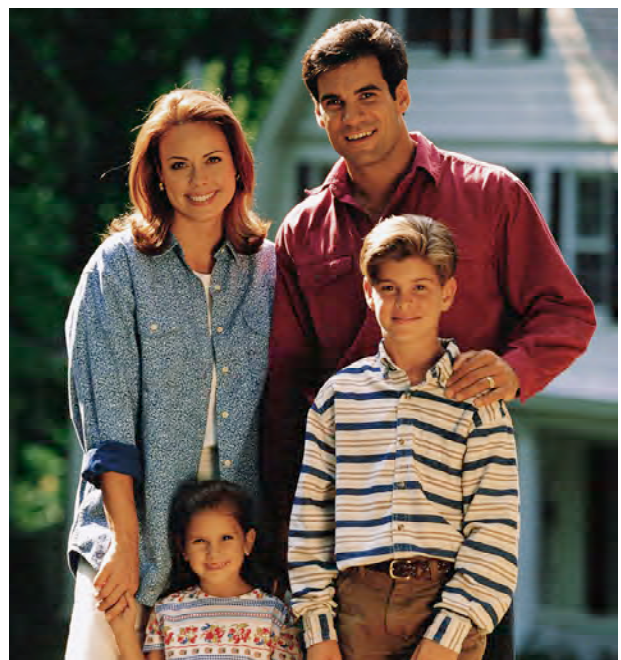


### Patients Talk About VAX-D **“VAX-D changed my life”**

“I sustained a serious injury to my low back at the L4-L5 level, in a work related accident which put me in bed for two weeks. When I couldn’t get down on the floor to play with our newborn daughter, I knew I had to do something.

Fortunately, my physician approached me about VAX-D, and the rest is history. It is not an overstatement to say that VAX-D changed my life. There are literally hundreds of everyday little things that I can now experience pain free, including wrestling with my two-year-old daughter. “

Steve F.



What's good for your patients  
may be great for the future  
of your practice.



## Why Choose VAX-D Genesis?

- **New Patient Source.** The high patient success rates have driven patient referrals to administering clinics, thus making VAX-D a leading alternative to surgery and a dramatic practice revenue source. With VAX-D's lower pricing, one patient per month more than covers the cost of the lease!
- **Advanced Technology.** Genesis provides multi-axis treatment where tension is applied following the natural curvatures of the spine. All other treatment systems are just straight-line pulls.
- **Evidence Based Medicine.** Clinics must substantiate any advertising claims by reliable, peer reviewed scientific studies. VAX-D treatment is backed by years of clinical research that has been published in peer-reviewed medical journals. This includes outcome studies, studies on it's mechanism of action, and even randomized control trials.
- **Real Disc Decompression.** It's the only equipment known to lower the intradiscal pressure to negative levels. Real research – not a sales pitch.



vaxi-D

Helping People Get Back To Life