



ENHANCING PATIENT HEALTH



Proof of Concept

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## **CoreControl™ Studies Proof of Concept**

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## Introduction

During the last two years, AVACORE TECHNOLOGIES has performed proof-of-concept trials using CoreControl™ for heat related impairments and heat related pains syndromes.

### **Heat Impairments**

Multiple Sclerosis (MS), with its heat-induced debilitations, was examined most often, with exciting, positive findings. A nine year old with Dysautonomia (anhidrotic), inability to sweat, is using CoreControl™ to effectively manage his core body temperature in various activities and ambient conditions. Other opportunities exist to do trials on a variety of diseases with heat-induced symptoms and impairments including the Dysautonomias, Cystic Fibrosis, Icthyosis and other rare metabolic diseases.

MS Controlled studies are ongoing at Stanford University as well as beginning at the University of Michigan. These studies will produce additional validation of the efficacy of CoreControl™ in all of these areas.

### **Pain**

Trails were completed on several chronic regional pain syndromes with impressive positive results. With neurogenic pain modalities, positive results have been obtained with post polio pain syndrome, radiating pain of carpal tunnel syndrome, and headache. Other potential pain reducing areas might include pain from spinal cord injuries, head injuries, burns, etc.

Several individuals with painful diseases that are not known to be affected by heat showed negative results. These included arthritis, elbow tendonitis and sinusitis.

### **Heat Stress**

Two different non-controlled uses of CoreControl™ showed impressive reduction of heat stress. One was at a university stadium where 200 heat stressed individuals showed rapid resolution of heat exhaustion. The second was with 65 women golfers in ambient temperatures of 95-97 degrees Fahrenheit who experienced immediate relief of heat stress.

It is unknown if heat stroke can be prevented or resolved. Studies are being planned to discover whether CoreControl™ can have a positive impact on this life-threatening event.

### **Amputees**

Continuing trials at Walter Reed Hospital have allowed combat veteran amputees to rehabilitate quicker than previous rehabilitation programs with less discomfort and reduced heat related limitations on physical exertion.

### **Future Trials and Applications**

Potential major applications include temperature management in the operating rooms, cancer treatment enhancement, and stroke and myocardial infarction treatment. These applications will be dependent on the “fooling the brain” concept. CoreControl™ will also be studied with burns and spinal cord injury temperature instabilities.



# MS TRIALS



## LESLIE R.

- 60 years old
- Former member of George Ballanchine's New York Ballet Company
- Professional ballerina from 1960 – 1967

"I went on many world tours and was invited to be the top ballerina at one point in my career. I left the company to get married and come out to California to open my own dance school and professional theatre. I was still dancing and performing until I woke up one morning in October 1982 with my eyes facing different directions, my head moving with a horrible form of nystagnus, double, even triple vision, and vertigo so bad I couldn't stand up. This happened overnight. I went to the neurologist and it was very quickly diagnosed as multiple sclerosis.

From that point on I have struggled with the disease, trying every form of help there is on the market including medications such as Avonex which did nothing other than make me very, very ill each time I took it. I was given a lengthy trial of all medications available. Nothing worked. I also tried every alternative medicine that I could think of, but my only help was through the psychological, emotional and spiritual work I did. But nothing reduces the symptoms, which in my type of MS is considered chronic progressive. There is another medical term for it but it means that there are no relapses and no remissions. It's a steadily progressing course of the disease.

In my case, there have been three major exacerbations at different periods of time. The first one was when my eyes went out. The second one was when I lost the use of the finite mechanism workings of my left hand, and I am left-handed. The third one, two years ago, was when I woke up one morning and I could hardly walk at all. Almost no steps could be taken. I almost couldn't even sit up. A course of medication called Solumedrol remarkably got me up on my feet. But I discovered also that Solumedrol did give me some problems with my heart, so it was a bit dangerous for me to try. And again, two years ago, it did not mean that I returned to anywhere near what I had been for all the previous years of MS before that.

Now it became difficult for everything, the everyday course of events became extremely and progressively more difficult. Standing up, even sitting up, required long courses of naps to try to calm and cool the body and cool the nerves down enough so that I could stand again. As stubborn as I am and dedicated to staying as well as I can for as long as possible, I knew that I really should have

been in a wheelchair. I was taking a lot of chances, dangerous chances, of walking or attempting to walk and falling a lot. One time, in January 2003, when I fell, I broke a bone in my right foot and sprained my ankle so badly that it has taken months to recover, and it's still never quite the same as it was.

It became difficult for me to do anything without any kind of aid or assistance. My husband drops me as close to the door of the restaurant as he can when we go out to eat. My husband holds me on the arm or I hold his arm for any kind of walking whatsoever. Steps are difficult and unmanageable with lots of muscle spasms and pain. I'd say I could walk 150 feet with the aid of either walking sticks or holding onto my husband's hand, but by then, that was it. There was no more ability to really walk whatsoever without extreme danger of falling down. Basically, I really couldn't stand up and I noticed that when I would try turning around that I would turn but my feet would not, making it even more dangerous. Over the course of these two years, since the last big exacerbation, I really did what I call wall walking which simply means grabbing anything I could hold onto in whatever situation I was in. This is including walking and holding onto walls to hold myself upright and not lose my balance, because my balance is extremely poor. They call it disequilibrium, it's no longer vertigo but disequilibrium. I could topple over just leaning forward with my head or looking to the sides with my head. Everything was very directed and extremely concentrated, and I'm not kidding about this. I concentrated on every step I took, what my feet were doing, what my body was doing, what my head was doing. I have a feeling, that anyone who had not had the career that I had in ballet of learning to use my body so finitely, would never have been able to do the level of concentration on knowing what my body was doing at the time.

But needless to say, the disease, to put it lightly and positively, is an extreme challenge right from the get-go and the challenge becomes so difficult. It was becoming so difficult to me that I landed up in a situation where a lot of MS people end up when you start losing hope and asking what is the point going on, because even all the small basic things become so difficult to accomplish. Like getting dressed or putting on your shoes or even washing up or getting out of bed in the morning becomes so difficult that you say what is the point of living. You spend your day recovering and trying to recover enough so that you can do some of the most basic functions. It starts looking very hopeless. And this I understand, in talking with MS people, that suicide is a very common thing. Suicide rates in MS are very high, inordinately high, compared to a lot of other diseases, in fact, because of the loss of motor function, finite motor function, big motor function and brain function. My brain has fortunately gotten a little more clear than it has for a lot of people. There are still times when my nervous system goes out when there is a lot of confusion, a lot of needing desperately to curl up and sleep, to recover.

Now going back to the lack of hope. On this Friday, November 28, 2003 I started my first time use of this device from AVAcore which has this core cooling device that AVAcore is presenting to me to use. Dr. Dumont attached it to my wrist like

a glove and my first sensation in using it was, and I felt concerned in using it because I have hypoglycemia, that I would react to being cold. I worried that I was going to get cold, but I did not feel a sensation of being cold. I felt a sensation of cooling, a slight sensation of cooling in the back of my head and down my spine and the top part of my spine, in fact, which felt good to me. I felt crispness, a greater clarity through the whole body. I got up, started to walk and noticed my balance was immediately better, within minutes or seconds, than from coming into the doctor's house. Getting into Dr. Dumont's house I struggled because of needing to use his arm since my husband was parking the car. There was a definite threat of falling because they did not have as many things to hold onto in their house as I have in mine.

When I first used the device, I was already walking out the door. We used the device and my husband was carrying it for me. I understand that I did my usual 150 feet and they measured it off. I was as careful as I have been because that is what I've had to be all these years. I was also more than a little amazed and also a little bit emotionally shook by all this because it has been a rough course with this disease and nothing has given me a sense of hope that changes could be made with these symptoms. It was a bit overwhelming to me. I have to stop the tape a bit because of the tears...I am so grateful that a product has come on the market that could help me with this disease. I am amazed because my husband and I have spent thousands of dollars trying to get me some help.

Back to the doctor's house. Within seconds, I felt a difference in my body. Cool tingling in my neck and head. There was a quick difference in strength and power in my body. I could stand and walk with no stumbling gait. Balance was good. My husband Fred held the machine and I walked in large circles around the doctor's house. Dr. Dumont and my husband did the measurements and it equaled about a  $\frac{1}{4}$  of a mile. I walked with no assistance, no walking sticks. I took a few pauses when I felt myself heating up. I took a break until I felt cool enough to walk around in a circle 5 times. I still felt good to go.

We then went to the fitness center and lifted weights with my arms. I couldn't do this for years. I did a series of 6 reps with my arms with some cooling breaks. I did leg lifts. I did a series of 6 to 10 reps a piece. I had the cooling device on and did not have to pause to rest. I then did 34 leg lifts nonstop, without tiring or heating up. It was just amazing! The only reason I stopped was that I was emotionally becoming very overwhelmed. This was amazing! If I was not so overwhelmed I could have continued. Also, I was a bit concerned using muscles that were so unused. After this, we went out for a nice dinner, then went home with the device.

The best result I recall was when all parts of my body worked so well. I did things I could not do for years after just 10 minutes of cooling. Every little detail was wonderful. It was so easy. I was acting like a normal human being. That same morning I walked down the stairs. I normally had to hold on with both hands and painstakingly crawl downstairs. This time I walked down normally just

holding onto the banister. I controlled my feet and danced! I didn't have to hold onto the counters in the kitchen. I was standing with no problems - with perfect balance. This was 2 ½ hours after the cooling. We then went to Starbucks where all my friends were stunned by how well I could walk and balance. It was amazing!

I thank all of you for this wonderful device that will transform lives. It is so exciting and wonderful! Thank you so much.



## SANDY

### Sandy's History

1982

- First MS symptoms
- Sudden visual disturbances

1986

- MS diagnosed
- Meds: Avonex, Ibuprofen, Vicodin, Sleep Meds.

2004

- Recurrent symptoms, all of which are triggered by increased ambient heat or exercise or aggravated by increased ambient heat or exercise
  - Pain distal legs and abdomen
  - Spasms (quivering)
  - Decreased strength, especially legs
  - Decreased balance and/or coordination
  - Brain fuzziness, including slowing of speech and memory lapses
  - Fatigue

Sandy is an excellent athlete and golfer. Much of her world and self-esteem revolves around her ability to participate in golf.

### Trial of CoreControl

#### ***Temperature at 9:30 am, 90 degrees F***

Sandy hit balls on range for approximately 15 minutes. She played golf riding in a golf cart.

#### ***Temperature at 10:00 am, 92 degrees F***

Sandy stated she was feeling weak, losing her balance and coordination, had pain in her legs and was beginning to have a "fuzziness" feeling in her head and body.

CoreControl was applied to right hand. At 5 minutes, pain had lessened and a feeling of calm and lightness began. At 10 minutes of intermittent use, the pain had completely disappeared.

Sandy continued to use CoreControl for at least 2 minutes recurrently between golf shots for the next 45 minutes. During this time, she experienced none of the heat triggering symptoms that were expected.

Sandy decided to allow herself to “heat up” to find out “once and for all” if the device really worked and was not “just placebo.” She stood in the sun without her usual umbrella. She did not use the device for 20 minutes. The ambient temperature at this time varied between 96 – 99 degrees F.

Near the end of this 20-minute trial, balance became a problem, as did a significant amount of pain in her legs. She stated her leg was quivering. It was apparent her right leg was having difficulty as it wobbled when she walked. She complained of severe fatigue. She stated her heart was beating fast, and she was anxious and near panic.

CoreControl was immediately placed on her hand and within 2 minutes her leg ceased quivering, her mind began clearing, her heart rate decreased and pain was significantly lessened. Within 7 minutes the pain was nearly gone and she felt back to her normal heat baseline.

CoreControl was used at intervals of 2 or more minutes for the rest of the session. After the session, in an air-conditioned room, the device was used for another 10 minutes of cool down.

Sandy stated that at any other time, if she would have reached the condition she allowed herself to reach today, she would have left the golf course, gone home, taken a shower, and gone to bed for hours, usually not recovering the same day.

### **Observer Comments**

This appears as further spectacular evidence that CoreControl can reverse, prevent and improve heat-related symptoms of MS. This and other trials with MS patients strongly suggest that the quality of life can be significantly enhanced with CoreControl. It is obvious that CoreControl will work most effectively for patients who have a desire and spirit to positively affect their condition.

### **Sandy's Comments**

“Extremely amazing!”

“It is so worthwhile”

“I was surprised – I was trying to prove it didn’t work.”

“It made my heart feel good.”

“It will help so many people.”

“It made me feel what it would feel like for normal people in the heat.”

“I would do anything to help promote CoreControl to others with MS.”



## LOIS

### **Lois' History**

Lois first started noticing symptoms (optic neuritis) in 1963 when she was 29 years old.

### ***First Diagnosed***

Soon after developing problems with her eyes, she was diagnosed as having MS by her eye doctor. Further diagnosed later as having subtype chronic progressive.

### ***Past Medications***

In the early years she took 8 aspirin per day.

Starting in the 1980's was given small amount of Prednisone once a month.

Took Copaxen injections for a short time, but developed a negative, flu-like reaction.

### ***Present Medications***

Infusion of steroids 1 x month at MS Center in Boston

Lipitor	10 mg/day
HCTZ	25 mg/day
Pemoline	18.75 mg 3x/day
Levoxyl	88 mcg/day
Estradiol	0.5 ½ every other day
Cosopt	One drop 2x/day
Fosomax	70 mg 1x/week
Aspirin	½ every day

### ***Known Signs and Symptoms***

Fatigue

Poor balance

Some incontinence

Left leg drags and is pretty unresponsive

### ***Functions Causing Heat Stress***

Any exercise except swimming

Being outdoors or in a room that is over 68 degrees F

Towards the end of the night when sleeping

***Heat Related Impairments***

All over body weakness

Blurry vision

Muddled thinking

***What Has Not Helped***

Wearing an ice vest and hat with ice in it

Bee stings

Drinking Red Bull

***What Has Helped***

Swimming in water at 68 degrees F

***Improvements with CoreControl***

Can walk faster and less unsteady after use

Able to get going faster in the morning

Thoughts more organized

Diminishes blurring of vision

***Lois' Suggestions***

"A sleeve that would close more easily."

"A unit that could be carried in a purse or fanny pack."

"A unit that could be run on a cigarette lighter in a car."



## PHILLIP

### Phillip's History

Age: 51

Date of Diagnosis: Fall, 2002 – Primary Progressive MS

### ***Onset of Symptoms***

Spring, 2000 – Walking/balance problems

1993 – Began dropping left foot while running

### ***Impairments and difficulties***

Leg spasms (alternating legs) nightly around 8 pm

Some slight numbness in left fingers and toes

Poor balance affecting walking

### ***Relative Strength Perceived or Measured Right to Left***

Right hand losing strength even in simple tasks such as writing or keyboarding

### ***Other Comments or Suggestions***

No other common problems such as continence, memory, or sexual

No evidence of fatigue

Routinely gets 6-7 hours of sleep/night

Occasionally takes 15 minute nap in the afternoon

### ***Phillip's Comments***

"I try to get to the gym 5 – 7 days per week. I can and do still cycle, but have lost some fine motor control in my hands making playing guitar harder than it was for the last 30 years. I can no longer balance enough to do cross-country skiing.

### **Trial of CoreControl**

Elliptical Machine:

Day 1	Baseline heart rate after 30 minutes: 120 bpm
	No CoreControl in use.
Day 2	Heart rate after 30 minutes: 90 bpm
	CoreControl used continuously

Triceps Lift to Exhaustion:

Without CoreControl	3 sets of 15 with 2-3 min. rest between sets
With CoreControl	4 sets of 15 with 2-3 min. rest between sets*

\*could have continued beyond 4 sets

Bilateral Curls (60 lbs) to Exhaustion

Without CoreControl	15 curls with 3 minute rest, then 9 curls
With CoreControl	3 minutes rest, then 14 curls

Shoulder Press (60 lbs) to Exhaustion

Without CoreControl	11 presses with 3 minute rest, then 10 presses
With CoreControl	3 minutes rest, then 17 presses

**Comments**

This preliminary study on a well-conditioned MS subject shows similar results with non-MS subjects with regard to recovery, cardiac drift (endurance) and probably strength improvement during the session. Further controlled studies will be performed to establish these patterns over a larger number of MS patients.



## JIM

### Jim's History

- **1962 (age 13)** A sudden, severe bout of vertigo which was diagnosed as labyrinthitis, but which lasted about 3 weeks and then went away spontaneously. New bouts of vertigo at intervals of about every 7 years until approximately age 33.
- **1966 (age 16)** While training for cross-country, felt a peculiar, but transient electronic buzzing in right knee immediately after any strenuous run. It was very brief, lasting no more than 5 seconds. That same sensation, in the same spot is now "a persistent part of my life." Definitely associated with the ups and downs of new exacerbations and a precursor to the muscular leg fatigue.
- **June, 1986 (age 36)** Diagnosed with non-specific myelitis after doing a lumbar tap. Had been suffering from a spot on the heel of left hand that felt persistently cold for 4-5 months. Symptom disappeared during July, 1986.
- **May, 1987 (age 37)** Awoke one morning to find no muscle control on right side of face (could not raise lips, smile, close eye, furrow brow or lower eye even in bright sunlight.) Initial diagnosis was Bell's Palsy, but while waiting for test results, symptoms became much worse including:
  1. Loss of most of sight in right eye
  2. "Bizarre" sensation of searing heat or cold all along left arm and shoulder
  3. Numbness on both sides from the waist down.MRI showed active lesion activity. Diagnosed with MS and put on 3-week course of Prednisone (75 mg/day). Symptoms remitted after about 6 weeks.
- **1993 (age 43)** Developed a wide range of strange sensory symptoms:
  1. feeling of a 4-inch wide girdle around midriff that was 2 inches too short to go around making it impossible to take a full breath.
  2. sense that "rubber rings" (like ones of increasing size on a spindle that infants play with) surrounded legs, making it difficult to walk;
  3. feeling that buttocks were strapped down tight to a plank "that extended 3 feet in either direction, and the plank was somehow a part of the body, so was compelled to walk through doorways sideways."
  4. Tremor in right hand made it difficult to write legibly.

All these symptoms lasted about 6 months. It is possible that, while these started out as MS symptoms, for the last 4 months or so they were actually side effects of the Prednisone. In the aftermath of this attack there was sexual dysfunction as well. Over a period of years, developed a combination of urinary urgency and inability to maintain a stream. This symptom is pretty well controlled with Cardura (8 mg/day).

- **2002 (age52)** Developed a distressing, uncomfortable sensation in right knee and lower leg making it difficult to walk or get to sleep. After this symptom abated it was discovered that endurance was substantially diminished when overheated. In late 2002, started daily injection of Copaxone. Only other medications are the Cadura and sometime Prednisone, generally starting at 65-75 mg/day and tapering off in 3 weeks to 6 months.

### **Signs and Symptoms:**

1. almost complete sexual impotency
2. right eye has never opened as fully as left eye since episode in 1987
3. uncomfortable buzzing sensation in right knee
4. dropping leg, loss of agility and exhaustion after about 30 minutes of vigorous exercise. If exercising to complete exhaustion, takes up to 2 full days to recover
5. when core body temperature goes up, level of exhaustion makes it difficult-to-impossible to walk, but never gotten so bad as to be unable to think or talk.

### **Trial of CoreControl™**

#### ***Day 1***

Before using CoreControl™, walked outside about 3 miles in breezy but sunny conditions. Last half mile was noticeably more difficult, resulting in dropped leg and much reduced balance and agility. Upon arriving at the gym, had rested only about 45 minutes from walking. Would normally need about one half day to recover.

- Began cooling with CoreControl™ for 5 minutes, and felt restored almost to a normal state.
- Ran  $\frac{3}{4}$  mile on treadmill starting at 5 mph for  $\frac{1}{2}$  mile, then 6 mph for  $\frac{1}{4}$  mile.
- Walked another  $\frac{1}{4}$  mile at approximately 2.7 mph. Normally at this point would have been quite tired and need several hours to recover.

- Cooled with Core Control™ for 5 minutes and was able to walk comfortably (not fully recovered, but substantially so).
- Bilateral leg lifts at 50 lbs:
  - 13 rest
  - 10 done with great effort, then cooled
  - 11 done with less effort, then cooled
- Bilateral arm curls at 50 lbs:
  - 16 cooled
  - 16 cooled
  - 23 cooled

Only minimal fatigue after session, especially related to expected fatigue. Next morning there was no muscle soreness.

### **Day 2**

Using CoreControl™ continually, walked approximately 4 miles in sunny, 80 degree conditions. (That is about 2 miles further than could normally have been done at a pace of approximately 3.2 mph).

- The first 2 ¾ miles were completed at a brisk, striding pace, approximately 4.2 mph. (That is a LOT more than normally could have been done unaided.)
- Began to experience fatigue at this point, but kept walking at a reduced pace of approximately 3 – 3.5 mph, for an additional ¾ mile.
- Very fatigued at this point, but after sitting in shade for 5 minutes, was restored to about the same level of fatigue experienced after the first 2 ¾ miles.
- Remaining ½ mile was difficult, but he was amazed he was still even on his feet.

### **Progress Note 7/12/04**

Used CoreControl™ toward the end of last week. Was able to recover within minutes from a level of fatigue that normally would have taken hours.

### **Jim's Comments**

*"At this point in my life, the biggest burden of MS is the way that the expectation of a truly incapacitating fatigue forces me to limit what I can do. For instance, if I go for a hike in the mountains with my son, I know I can go for about 35-40 minutes before I begin to drop my leg, lose stability, balance, etc. But since I don't know how challenging the terrain will be before I start (i.e., will I need to jump from one rock to another? Or maintain my balance on a log going across a stream?), I can't risk getting even close to my limit without endangering myself or my son. As a result, I run into problems. Now with CoreControl™, since I can restore myself to a resting state within minutes instead of hours, I can go out further, enjoy myself to the hilt, and not be concerned about having the strength or energy to get back. THAT IS LIFE-CHANGING!"*

*At the gym, after my usual one-hour workout, I'm more than normally tired. Whereas I could normally bound up the two flights of steps to the outdoors, taking them two at a time, after a workout I have to go one step at a time and lean against the banister. But with CoreControl™, I can sit in the gym for 5 minutes, cool off, and take the steps the way I would have at the start. I'm already planning trips to the museum, Europe, etc., that I would have thought thrice about before."*



# **Complex Regional Pain Syndrome (CPRS) Trials**



## DAN

### Dan's History

Age: 48  
Date of Trial: March 21, 2004

1999 Sudden onset of Guillain-Barre Syndrome, unusually severe  
On a respirator for 4 years, off respirator just this last year  
Quadriplegic  
Poor arm movement on right; can bring arm to face  
50% flexibility in right hand  
Left arm can raise 30% from neutral position  
He has neck control and speech  
He has no movement below the waist  
He does experience hot/cold/pain sensation  
Has extreme pain/discomfort in legs with heat.

Dan has had pneumonia 7 – 8 times. He now has a thyroid tumor compressing his trachea. He is on chemotherapy. His tumor is inoperable because his airway is constricted by scar tissue from the tracheotomy that he had for 4 years. Surgeons and anesthesiologists worry about the ability to control the anesthesia, so at this point chemotherapy is being used to attempt to reduce the size of his tumor.

### Trial of CoreControl™

Dan called AVACore because he is treated with ice packs every 1.5 hours round the clock by family members. These ice packs are placed on his armpits, back, buttocks, and legs because of intolerable pain from heat. He states that people who touch his legs say that they are hot.

The only trial with Dan was in the lobby of Chapman Medical Center. He wears a facemask to help prevent further infections. His speech is articulate. He states that he is in considerable discomfort because he has gone 3 – 4 hours without ice packs. His legs are hot and he rates his pain as a 7 out of 10 points. His temperature is taken with an infrared thermometer:

Temporal:	97.6 degrees F
Forearms	84-85 degrees F
Legs (above knees)	94 degrees F

CoreControl™ is immediately placed on his right hand and he is able to place his palm on the cone. At 10 minutes his pain is nearly gone and is tolerable. His mind has cleared and he states that he feels cool and fresh all over his body. This was quite a surprise to him.

At 15 minutes he had no pain at all. CoreControl™ was discontinued and temps were again taken.

Temporal:	97.6 degrees F
Forearms:	84-85 degrees F
Legs (above knees)	84-85 degrees F

45 minutes later, as he began to feel discomfort, temps were again taken.

Temporal:	94.6 degrees F
Forearms:	84-85 degrees F
Legs (above knees)	94 degrees F

He was treated with CoreControl™ for another 10 minutes and his pain disappeared. At this point the session ended.

This is a very interesting situation with a very complicated patient. It appears that cooling of this heat sensitive patient can and does reduce symptoms of heat and related pain. The changes in skin temperature in his legs are difficult to understand. It is assumed that Dan has Complex Regional Pain Syndrome (CRPS) with disturbances in a variety of sympathetic functions. Obviously, Dan needs further long-term trials throughout a 24-hour day to see if the same response is repeatable over time.

### **Dan's Comments**

“Amazing”

“Can't believe it – I was skeptical.”

“I can't wait for the world to hear about this.”

“This will be wonderful for people with similar conditions.”



## JEFF

### Jeff's RSD/CRPS History

Age: 45 years old  
Height: 6'4"  
Weight: 230 lbs

08/95 Right foot injury from stepping on ladder wrong with bare foot  
03/96 Bone spur removal on both heels  
03/97 Right foot bunectomy (bone ground done, screw inserted to correct step)  
Orthotics made for both feet  
06/99 Neuroma extraction on right foot

Chronic foot pain from original injury to current date. Have tried many medications and LSB (lumbar sympathetic blocks). Rejected offers to implant electronic spinal implants or sympathectomy options. Lidoderm patches (5%) work on major pain when occurs at neuroma site. Acupuncture also really helps. Symptoms occur over entire body, but worse from both thighs down. Heat stress is common and one of my worst enemies.

### Jeff's Comments

"Your CoreControl™ has definitely increased the quality of my life in terms of health. Let me explain how my RSD works and then RTX results. My RSD "turns on" like a switch when I get off my feet or lay down. Then pain radiates up my legs into my hips, sometimes arms, hands and head. This is the normal RSD mode. When heat stressed, the symptoms described are at least doubled. When the CoreControl™ is used, within minutes all the radiated pain will go away, leaving the "original" pain in my foot. Once this occurs, it feels like my foot pain is increased. This is not true, of course, because once the severity of the radiated pain is so diminished, only then do I realize how bad my foot really hurts. My pain usually is a 7 or 8 and the CoreControl™ brings it down to a 3 or 4. Pain is diminished as is the fatigue of heat stress."