



VMCLI

Veterinary Medical Center of Long Island
24 Hour Emergency & Specialty Services



REHABILITATION MODALITIES



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24 Hour Emergency & Specialty Services

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Orthopaedic Rehabilitation



- ❑ Osteoarthritis (OA)
- ❑ Cruciate injuries
- ❑ Patella instability
- ❑ Hip dysplasia
- ❑ Shelbow conditions
- ❑ Ligament/tendon injuries
- ❑ Fractures

Orthopaedic Rehabilitative Products

- *Game Ready system
- Therapy balls
- Cavaletti poles
- Balance boards /BOSU ball
- Sling support
- *Gait analysis system
- UWT / LT
- *Therapeutic US
- *NMES/EMS
- Your hands & mind!

Orthopaedic Rehabilitative Products

□ Cryotherapy

- ▣ Decreases inflammation & edema
- ▣ Decreases pain
- ▣ Decreases muscle spasms
- ▣ BID-TID 15-20 minutes
- ▣ Use day 1 to day 5 post op

□ Game Ready system

- ▣ Dry cold
- ▣ Active compression
- ▣ Accelerated healing



Orthopaedic Rehabilitative Products

Gait Analysis System

- Records pressure of paw as dog walks
- Can take static pressure measurement
- Gives data as stance time, stride length, cadence, velocity
- Quantitative way to track recovery

PAWPRINTS YOU CAN SEE... MEASUREMENTS YOU CAN TRUST!

- CAPTURE ELECTRONIC PAWPRINTS INSTANTLY
- MEASURE CADENCE, STRIDE LENGTH AND VELOCITY
- ASSESS STEP-TO-STEP SYMMETRY - L/R AND F/H
- ASSESS STEP-TO-STEP VARIABILITY - L/R AND F/H
- PORTABLE WALKWAY, ROLL IT UP...TAKE IT WITH YOU
- SETUP...TEST... REPORT... IN MINUTES!

IMMEDIATE RESULTS!

GAITRite
PORTABLE GAIT ANALYSIS SYSTEM
1.800.352.2301
WWW.GAITRITE.COM

PHOTO COURTESY OF J. STEISS AND V. LIGHT
COLLEGE OF VETERINARY MEDICINE, AUBURN UNIVERSITY

Orthopaedic Rehabilitative Products

Therapeutic Ultrasound

- Indications: decrease pain, muscle spasm, increase ROM, increase blood flow, bone healing
- Precautions: plastic and metal implants, bony prominences
- Contraindications: infected areas, neoplasms, growth plates, spinal cord post laminectomy, over the heart



Orthopaedic Rehabilitative Products

Neuromuscular Electric Stimulation (NMES / EMS)

- ❑ For muscle re-education vs. strengthening
- ❑ SID treatment
- ❑ 15-20 minute treatment time
- ❑ Look for a muscle contraction
- ❑ DOES NOT REVERSE ATROPHY



Neurologic Rehabilitation

- IVDD
- FCE
- Brachial plexus avulsions
- Vestibular



Neurologic Rehabilitative Products

- Therapy balls
- Cavaletti poles
- Balance boards /BOSU ball
- *Advanced sling support
- UWT / LT
- *TENS/NMES/EMS
- *Carts
- *Boots, protective garments
- Your hands!



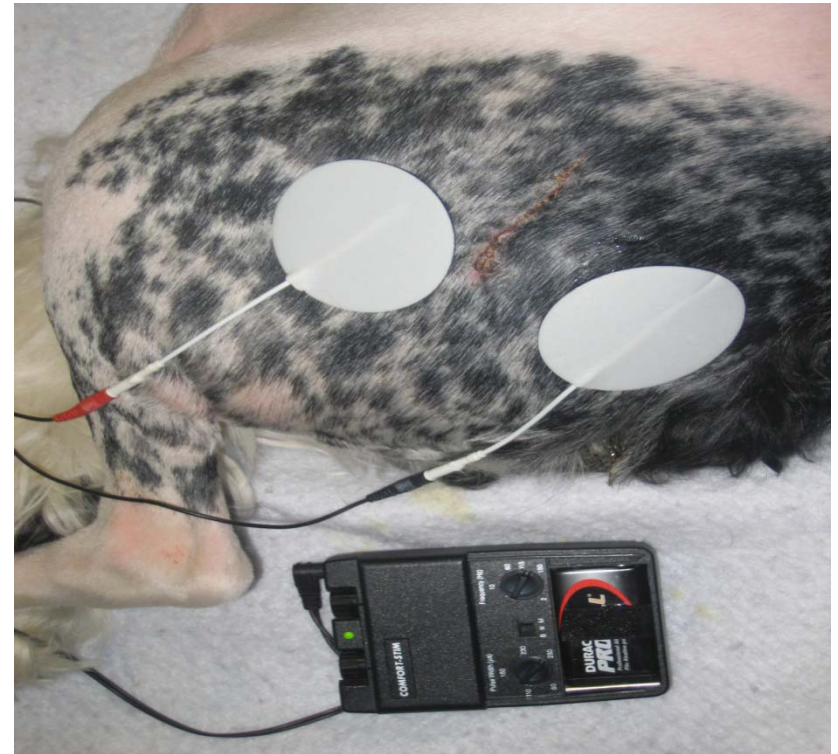
Neurologic Rehabilitative Products

Advanced sling support

Neurologic Rehabilitative Products

Transcutaneous Electrical Nerve Stimulation (TENS)

- Transmission of small electrical pulses through the skin to underlying peripheral nerves
- Recommended for pain management
- SID-BID
- 20 minute treatment time; 6-8 hours between sessions
- Most beneficial with ice pack or heat pack



Neurologic Rehabilitative Products



- Doggon Wheels
- Eddie's Wheels
- Walkin' Wheels



Neurologic Rehabilitative Products



Boots/Protective garments

- Walkaboos
- Thera-paws
- Sticky-pawz
- Dorsi-flex assist
- Wraps (tarsal, carpal)

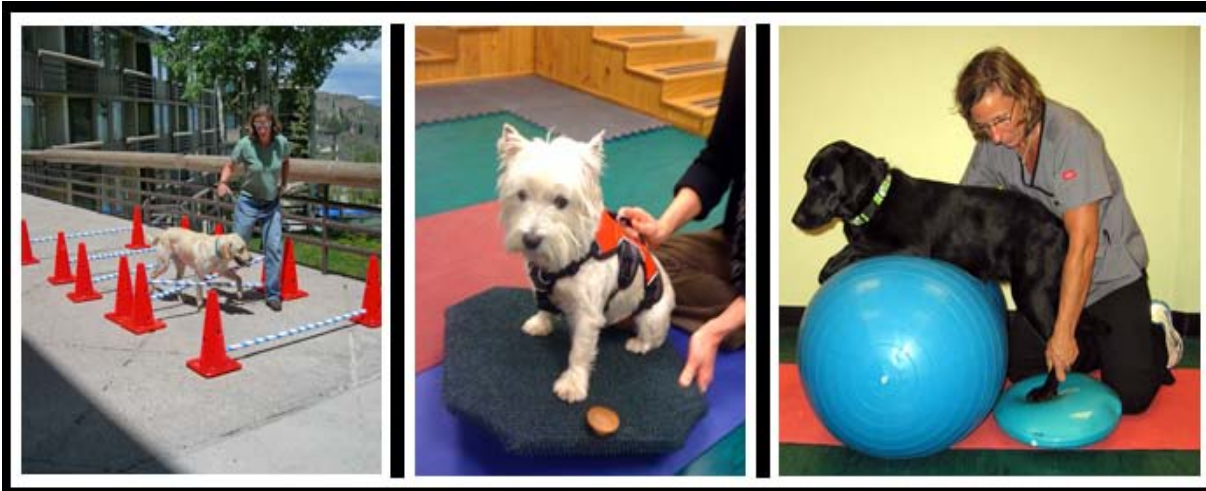
Orthro/Neuro Rehabilitative Products

- Slings, slings and more slings
 - ▣ Fleece lined
 - ▣ Walk about (WAB)
 - ▣ Help 'em up harness



Orthro/Neuro Rehabilitative Products

- Cavaletti poles
- Balance board/BOSU Ball



Orthro/Neuro Rehabilitative Products

- Therapy ball
 - Round
 - Egg
 - Peanut
- Facilitates weight bearing
- Posture
- Core strengthening
- Balance
- Muscle strengthening



Orthro/Neuro Rehabilitative Products

Aqua therapy (UWT)

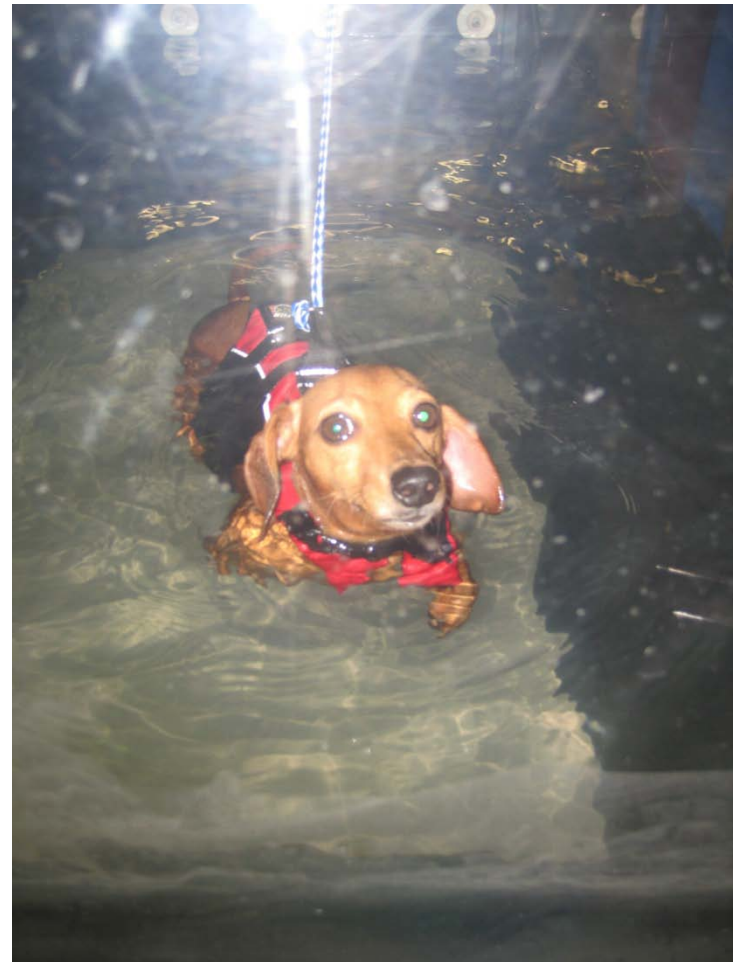
- Decreases stress on joints and muscles through buoyancy
- Assists exercise through resistance
- Thermal properties (temperature 85*)

Indications

- subacute/chronic STS
- Contracture
- Scars
- OA
- Muscle spasms or weakness
- Neurologic impairment

Contraindications

- Heart disease
- Respiratory disease
- Vascular disease
- Diarrhea
- Bed sores/wounds



Rehabilitation and beyond

□ **Anabolic Steroids**

- Winstrol
- Nandrolone
- Depotestosterone

□ ***Nutraceuticals**

- Oxstrin
- Omega 3-6-9

□ ***Low Level Laser Therapy (LLLT)**

□ **Extracorporeal Shock Wave Technology (ESWT)**

□ **SCT** (stem cell therapy)

□ **PRP** (platelet rich plasma)

Nutraceuticals



- Oxstrin
 - Free radical scavenger

- Duralactin
 - Milk protein for chronic inflammation

- Omega 3-6-9
 - Natural anti-inflammatory

- Cosequin
 - Glucosamine/Chondroitin



LLLT

- Alters cellular function through light emitting diodes
- Red and near infrared light can affect cell membrane permeability and aid the production of ATP thereby providing the cell with more energy which in turn means the cell is in optimum condition to play its part in a natural healing process.
- increases the speed, quality and tensile strength of tissue repair; pain relief; resolves inflammation; improves function of damaged neurological tissue



What does VMCLI offer our patients?

- Cryotherapy / Heat therapy
- Nutraceuticals
- LLLT
- Range of motion (ROM)
- Pressure Sore Prevention
- Sling support

Our dedication to their recovery!

They can't do it without our positive support!

Discussion

