



Hereford
Regional Medical Center
DEAF SMITH COUNTY HOSPITAL DISTRICT

Introducing our latest addition to enhance therapy!




MiraColt™

Introducing the **MiraColt™**: a medical-grade motion simulator designed to engage the lumbar-pelvic core and improve neuro-cognitive pathways.



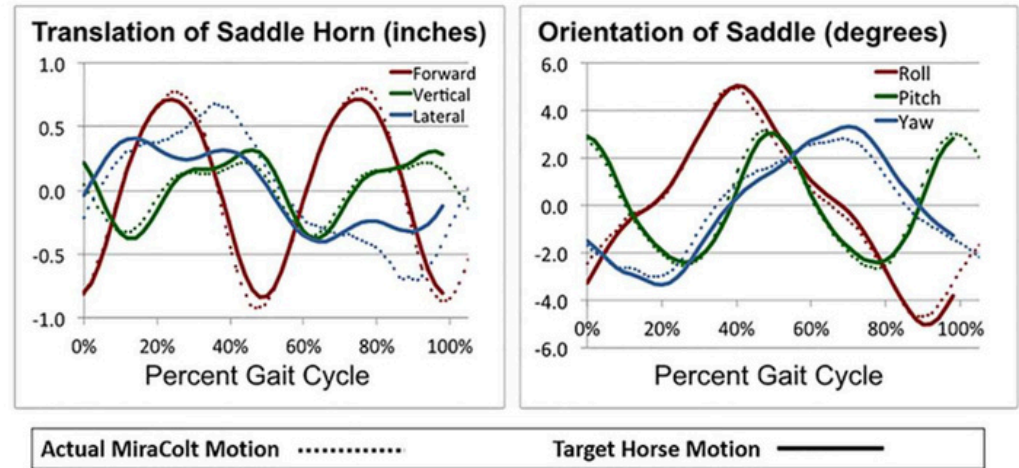
The **MiraColt™** is an FDA-approved, medical-grade, neuro-muscular stimulation device that primarily enhances core strength, gait, posture, balance and stability but also has secondary impacts on muscular relaxation, bowel and renal (urinary) function, calmness and sleep.



The MiraColt™

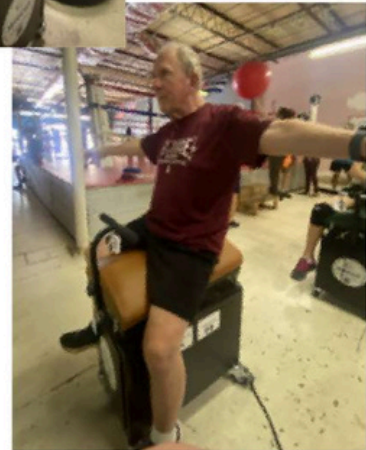
- The device simulates the walking gait of a horse.
- It is a best-in-class device that replicates all six degrees of motion freedom in the equine walking gait
- The MiraColt gives its riders convenient access to these complex natural movement patterns that are important for therapeutic neuro-muscular stimulation elicited during horseback riding.

Comparison of MiraColt™ Motion to Target Horse Motion



The MiraColt™

- FDA-approved powered exerciser
- Medical-grade motion simulator that greatly enhances core strength, gait quality, posture, balance, and stability.
- Benefits all ages, from pediatric to geriatric interventions.
- Supports wellness interventions to reduce fall risk and incontinence in the elderly whilst promoting exercise and bowel health.





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The MiraColt™

Complements PT, OT &
Rehabilitation driven
interventions in neurological,
muscular-functional conditions





The MiraColt™

- Reproduces the natural three-dimensional walking gait of a horse.
- Provides access to proven benefits of horseback riding which have been utilized in hippotherapy & equine assisted learning and therapy interventions.
- Acts as a great, billable, minimally supervised passive-active exerciser.
- Therapists have found great value in using the MiraColt as a priming or muscle relaxation tool for therapists in preparing their clients for other interventions.



Key Therapeutic Benefits of The MiraColt™

- Core Strength: Stimulates the lumbar-pelvic region, strengthening abdominal, back, and pelvic muscles.
- Improved Gait & Balance: Enhances coordination, posture, and stability for better movement.
- Postural Correction: Supports alignment and improves body posture.
- Fall Prevention: Reduces fall risk through increased stability and confidence.
- Functional Range of Motion: Boosts flexibility and movement ability.
- Neuro-Cognitive Benefits: Improves motor planning, coordination, and cognitive processing.
- Incontinence Support: Strengthens pelvic floor muscles, benefiting incontinence management in seniors.

Benefits of the MiraColt™ for Specific Populations

- Cerebral Palsy: Improves core and limb muscular strength and control; Promotes postural alignment and voluntary movement control; Increases functional range of motion.
- Autism Spectrum Disorder: Complements ABA therapy as part of behavior reinforcement; the repeated rhythmic simulated motion produces a calming and stabilizing effect; parents have reported secondary effects like better sleep and markedly reduced bed wetting.



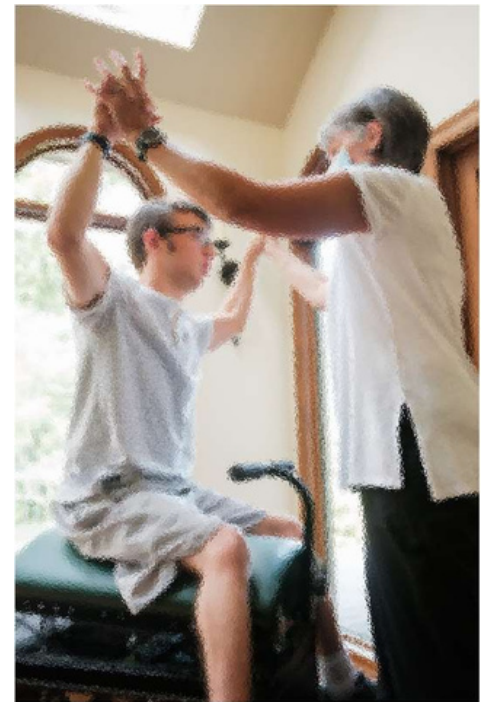
Benefits of the MiraColt™ for Specific Populations

- Stroke Recovery: Aids motor recovery, neuromuscular reeducation, gait retraining, postural stability and confidence; Reduces Fall risk
- Parkinson's Disease: Improves motor control; Reduces rigidity; Enhances coordination.
- Benefit also shown in Multiple Sclerosis, Traumatic Brain Injury & Other similar neurological movement conditions.



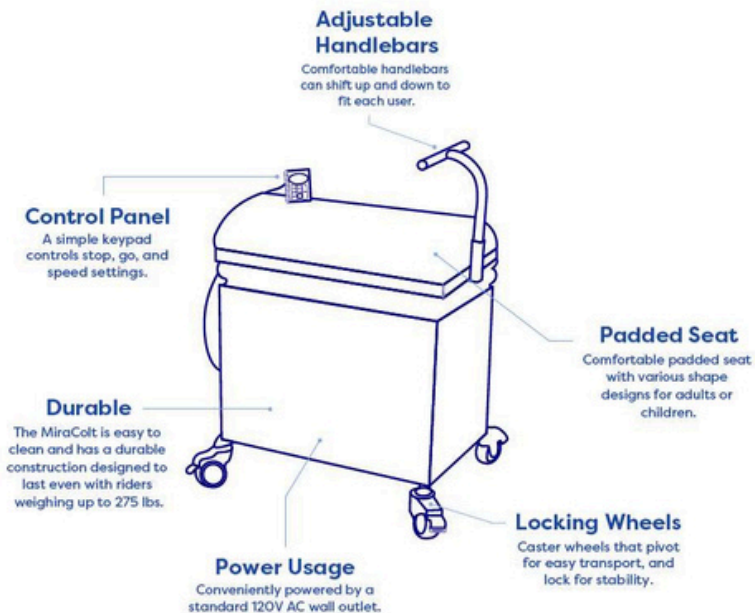
The MiraColt™ has a Broad Range of Therapy Applications

- Physical Therapy (PT): Enhances core strength, mobility, and coordination for rehab and wellness.
- Occupational Therapy (OT): Supports functional skills, fine motor control, and daily activity independence.
- Speech and Language Therapy: Improves breath support, vocalization, and communication skills through rhythmic equilibrating stimulation & calming effect.
- Cognitive Therapy: Stimulates brain activity by engaging motor and sensory pathways, improving memory and motor planning.





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Simple & Practical: The device is simple to operate, easy and low-cost to maintain & highly adaptable.

- **Accurate Horse Gait Simulation:** accurately reproduces
- the repeated, rhythmic, multidimensional walking gait that has
- proven useful exercise and therapeutic benefit
- **Adaptable, Safe & Comfortable:** Provides a secure environment with adjustable settings to suit individual needs.
- **Accessible Therapeutic Benefits:** Delivers the advantages of horseback riding therapy in both attended or minimally supervised environments.



The MiraColt™ - CONCLUSION

- Delivers the therapeutic riding benefits to those with physical, neurological, or environmental limitations.
- Offers a safe, effective, and comfortable solution for improving cores strength, balance, posture, and motor skills.
- Helps individuals of all abilities achieve a higher level of wellness and functional independence.

