Advancing Neurologic Rehabilitation: First-Year Outcomes and Insights From VBRII's Exoskeleton Program

The Journey to 1 Million Steps

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About VBRII



Led by **Dr. Franco Molteni, MD,** Neurorehabilitation specialist, opened its first robotic room in 2004

Innovative interdisciplinary approach **leveraging advanced technology** to drive clinical outcomes

Conducted research to improve current literature available on exoskeleton-assisted walking and create a template for **cost-effective care**

> An exoskeleton is not there to replace the work of a physiotherapist, it's a tool that can be used to improve patients' outcome through a high-tech, innovative interaction between physiotherapists and patients.

Atalante X by Wandercraft

Self-balancing robotic exoskeleton with a powered dynamic ankle enabling a physiological gait pattern and use without an assistive device. Additional features to modulate therapeutic benefit:

- Variable assistance, able to be adjusted bilaterally or unilaterally
- Multidirectional stepping (forward/backward/sideways)
- Active balance mode enabling squats and reaching

Program Design

Pathologies: SCI, MS, CVA, PD, ALS, HSP

Muscle and neuroplasticity activation with the described exoskeleton
2-3 sessions / week

Targeted session of strength or balance
3-4 sessions / week

Bedside mobilization and stretching
2-3 sessions / week

Results & Steps to Ensure Success

750 sessions
+ 60 patients
1.02 million steps

+ 1 million steps
Walked by patients in less than a year

29 min
Average time spent in verticalized position (77%)

1 170
Average number of steps per session

Support and enable internal champions

Implement champions to provide support and encourage use

Get the Team Excited!

Celebrate the arrival of your technology and ensure attendance in trainings

Leverage provider's community & support

Engage with customer support and customer care representative

Have some fun!

Try naming your device, engaging patients, and hosting regular events