



WANDERCRAFT

THE JOURNEY TO 1 MILLION STEPS

Customer Success Story: Villa Beretta
Rehabilitation Research Innovation Institute

August 2024

Sources: insights from Customer Care + Villa Beretta usage data from Superset + interview of Andrea Chiavenna and Eleonora Guanzioli on 13/09/2024 + review by Dr Molteni 23/10/2024. Last update 24/10/2024.

Who is VBRRII?



Villa Beretta Rehabilitation Research Innovation Institute are pioneers in technology adoption

- VBRRII opened their first **robotics room in 2004**
- Director **Dr. Franco Molteni**, is a clinical specialist in Neurorehabilitation with extensive experience in collaborating with the industry
- Following installation in June 2023, **the center reached 1 million steps in 9 months** across 750 training sessions in over 60 patients

Their research objective is to demonstrate the link between physiology, technology-based treatment, and recovery function

- An innovative interdisciplinary and bio-tech approach to **restore human functioning**
- Improving both the **quality and cost-effectiveness** of patient care
- Integrating **research findings into clinical activities** and **involving clinical staff** in research activities



Patients walked over 1 million steps in less than a year

750 sessions in one year
+60 patients
1.02 million steps

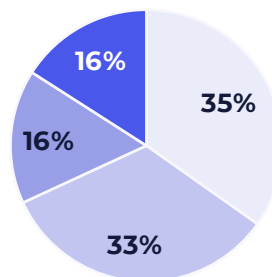
6
trained therapists

1
therapist per session

2 & 6 month LoS
stroke & SCI patient
usual stay duration

Patient profiles

- Paraplegia
- Hemiplegia
- Tetraplegia
- Other



Pathologies treated in Atalante

X

Ataxia	Stroke	ALS
SCI (up to C6)	Paraparesis	HSP
Multiple sclerosis	Parkinson's disease	

29 minutes (77%)
average time spent in verticalized position

7
average number of sessions per day with Atalante

1170
average number of steps per session

Most frequently used exercises

Backward walk
Side walk
EarlyGait at the beginning
RealGait after a few sessions

Atalante X is complementary to your existing toolkit of rehabilitation technologies

Before Atalante

Bedside mobilization and stretching
3-4 sessions / week

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

Side-to-side weight shifting with non-balancing exo – **2-3 sessions / week**

"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 ."

With Atalante

Bedside mobilization and stretching
2-3 sessions / week

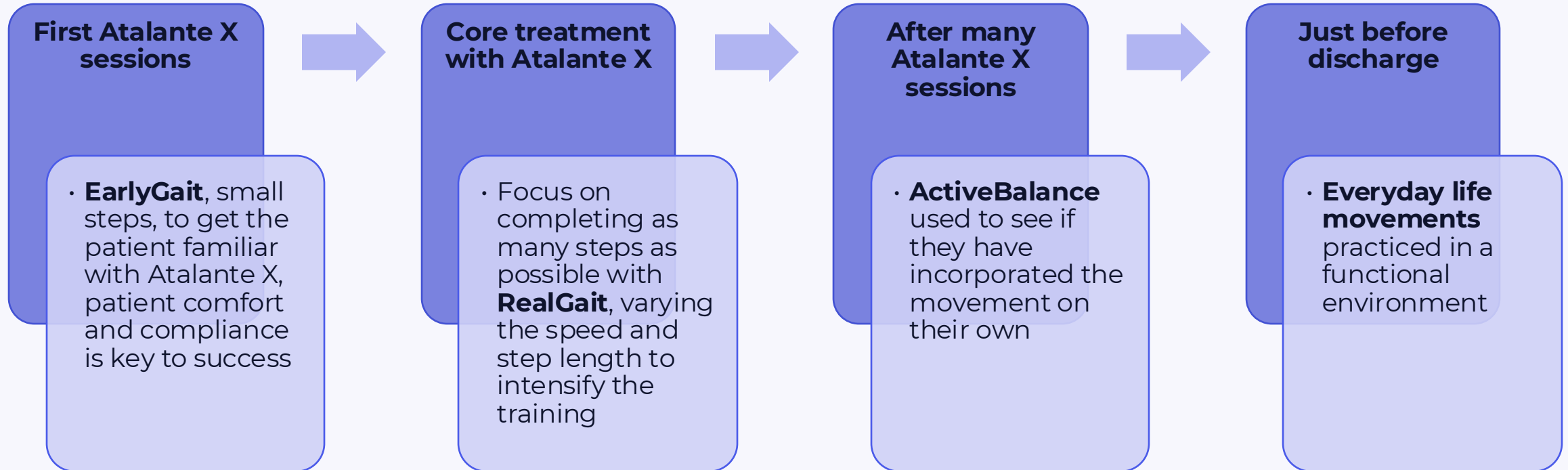
Targeted session of strength or balance
3-4 sessions / week

Muscle and neuroplasticity activation with
Atalante X – 2-3 sessions / week

Side-to-side weight shifting practice with non-balancing exo – **occasionally**

Atalante X = Complement to other therapies, filling the gaps in gait training that other technologies and exoskeletons are unable to address

No such thing as a typical Atalante X session through the continuum of care



Recommendations from VBRRII to for using Atalante X to the fullest



Utilize Atalante X's modes and customization

- ✓ **Activate different muscles synergies** through multidirectional gaits
- ✓ **Practice natural walk with RealGait** via heel strike and roll-out of the foot following the principles of physiological gait



Regularly adapt the care strategy over time

- ✓ Build individually tailored sessions that **evolve based on patient progression**
- ✓ **Maximize work per session** with rapid patient setup times (donning and doffing in less than 9 minutes!)



Do not underestimate the importance of patient motivation

- ✓ **Obtain better results** by considering patient's compliance
- ✓ **Raise awareness on the benefits and propose testing session** to skeptical or scared patients
- ✓ **Provide stagnating patients** with a potentially triggering new experience

How your center can go from 0 to 1 million

Easy-to-implement strategies to ensure consistent Atalante X usage



**Get the team
excited**

Celebrate the arrival of
Atalante X and ensure
attendance in trainings



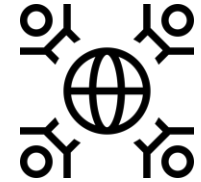
**Support and enable
internal champions**

Implement champions to
provide support and
encourage use



Have some fun!

Try naming your device,
engaging patients & hosting
regular events



**Leverage Wandercraft
community & support**

Connect with our 80+ centers
& engage with your customer
care representative

Experience gained from a million steps



From the beginning, we wanted to **verify what it meant for the recovery of function to use Atalante X in a non-conventional way**, walking not only forward, but also sideways and backward.

The feedback from the patients has struck us a lot. For them, it is not just about recovering the ability to walk, but also **mastering body movement in space.**

Another key point has been trunk control, which is supported and propelled forward much more naturally thanks to this exoskeleton, thus **favoring the recovery of balance and overall coordination.**

These two elements are biologically crucial for **reactivating neural circuits and improving cognitive activities and spatial perception.**



Dr. Franco Molteni

Clinical Director,
Villa Beretta Rehabilitation Research
Innovation Institute



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