

Plaxtreme: Advanced Neurotechnology for Grasp & Release Training

Improving functional hand recovery through
AI-driven Error Augmentation technology

More than

2x

Improvement in upper-limb motor function (ARAT score) after treatment with Plaxtreme vs. standard robotic therapy*, with the same number of treatment sessions.**

Up to

2x

 reduction

In pain intensity (measured using the VAS scale) following treatment with Plaxtreme.**

* Robotic therapy without Error Augmentation forces

** Preliminary results based on ongoing clinical trial

✓ FDA and CE Registered

✓ Globally Patent Protected



Where Error Becomes Independence

info@bioxtremerobotics.com

www.bioxtremerobotics.com



ERROR AUGMENTATION TECHNOLOGY

Bioxtreme's proprietary error augmentation platform is the only technology of its kind redefining rehabilitation outcomes worldwide.

Personalized, Adaptive AI-Based Learning

- AI analyzes movement performance in real time, adjusting subtle force demands and therapy parameters
- Continuously adapts to support progressive motor learning

Interactive, Task-Oriented Training

- Functional, ADL-based activities in an interactive 3D environment
- Gamified tasks drive engagement and high-repetition practice

Supination and Pronation Training

- Supports natural forearm rotation for functional movement
- Improves coordination for daily tasks

Designed for smooth OT workflows

- Quick setup with no complex calibration and seamless left/right side transition
- Enhanced accessibility features including anti-gravitational forces and arm rest

Adaptive, Feedback-Driven Rehabilitation

- Real time visual feedback supports continuous progress
- Automatic adjustment of therapeutic parameters based on patient's progress



Read more about our science backed devices and our neurorehabilitation therapeutic solutions

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