

# 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.\*\*

# 100%

Pinch strength improvement following treatment with Plaxtreme, compared to standard robotic therapy\*. \*\*

\* Robotic therapy without Error Augmentation forces

\*\* Preliminary results based on ongoing clinical trial

✓ FDA and CE Registered

✓ Globally Patent Protected



## Where Error Becomes Independence

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## 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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