

Where Error Becomes Independence

Experience the difference with Bioxtreme: the only Error Augmentation based technology for upper limb rehabilitation, engineered for better outcomes.

ERROR AUGMENTATION TECHNOLOGY

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

10+

years of research

4x

improvement in MAS vs. standard robotic therapy

Up to

40%

improvement in upper limb function in 5 weeks

14.8%

reduction in hand trajectory errors



Dextreme™

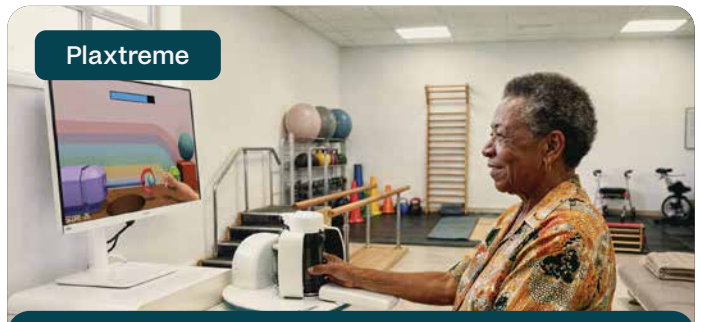
Advanced robotic rehabilitation for shoulders, elbows, and arms. Accelerate motor recovery with proven error augmentation technology.

6 sessions

After only 6 sessions with Dextreme™ for individuals post stroke compared to standard robotic therapy.

2x

Improvement in Fugl-Meyer scores with Dextreme™ training for individuals post stroke vs. standard robotic therapy.



Plaxtreme

Precision robotic therapy for hands and fingers. Restore functional grasp, release, and rotational control through Bioxtreme's proven error augmentation technology.

100%

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

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.*

* Robotic therapy without Error Augmentation forces
 ** Preliminary results based on ongoing clinical trial



Experience The Difference

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Bioxtreme

Introducing New Approach to Motor Learning

CHALLENGE

Slow Recovery Times

Traditional rehabilitation methods can take months or years with limited progress

SOLUTION

Rapid Clinical Gains

Error Augmentation technology demonstrates clinically significant motor improvements in just 2 weeks for individuals post stroke

CHALLENGE

Plateaued Progress

Patients often reach a recovery plateau with conventional therapy techniques

SOLUTION

Sustained Performance Improvement

Multi-directional practice with Error Augmentation forces promotes improved motor performance

CHALLENGE

Limited Motor Recovery

Incomplete restoration of fine motor skills and dexterity affects quality of life

SOLUTION

Restoration-Driven Recovery

Our Error Augmentation therapy facilitates restorative motor relearning to support functional independence

BUILT ON CLINICAL EVIDENCE

Our innovation lies in the combination of a new approach to motor learning and groundbreaking technology. A unique robotic device applies motor Error Augmentation forces that operate during practice in a virtual 3D environment. The forces trigger the body's instinctive adaptive response, which does not require the use of cognition to correct the movement.

✓ A simulated environment enhances patient motivation and participation.

✓ Gamified tasks act as a great indicator of treatment progression for patients on their way to recovery.

✓ Error augmentation forces lead patients to instinctively correct their own movements with zero reliance on manual guidance



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

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