

NESS H200[®] Wireless



Help your patients grasp life!

The leading hand rehabilitation system now features wireless technology





Technology That Enhances Therapy and Daily Life

The H200 Wireless Hand Rehabilitation System uses advanced technology and low-level stimulation to help rehabilitate patients with upper extremity paresis.¹ Patients can use the H200 Wireless System to perform therapeutic and daily activities to improve lost hand function as a result of:^{1,2}

- Stroke
- Traumatic Brain Injury
- Spinal Cord Injury

Benefits of Functional Electrical Stimulation (FES) in Upper Extremity Rehabilitation

Bioness' products use FES to help restore or improve lost function by producing movements or functions that emulate natural voluntary movements to help patients lead a more active life.

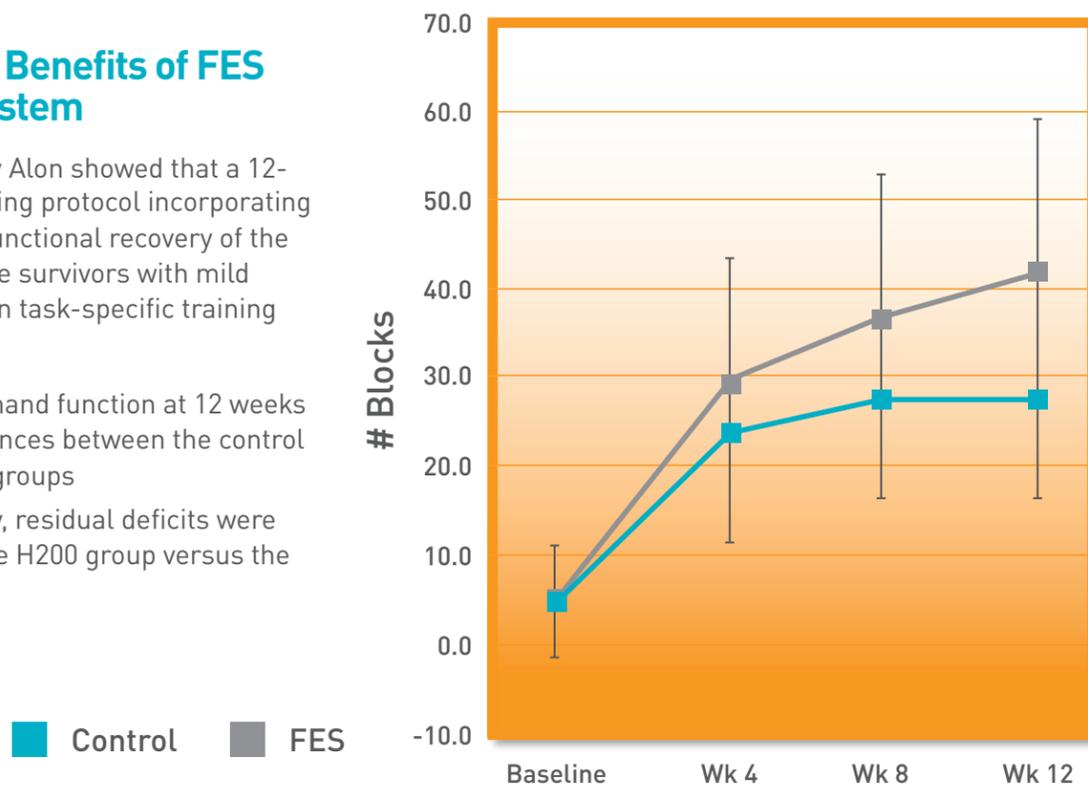
- Improve ability to perform activities of daily living³
- Reduce muscle spasm¹
- Improve voluntary movement of the hand and wrist
- Reeducation of muscles over time

Additionally, FES may reduce or prevent secondary complications in patients and help maintain or increase range of motion, increase local blood circulation and prevent or retard muscle atrophy.

Studies show the Benefits of FES and the H200® System

An acute stroke study by Alon showed that a 12-week task-specific training protocol incorporating FES resulted in better functional recovery of the upper extremity in stroke survivors with mild to moderate paresis than task-specific training alone.⁴

- All patients regained hand function at 12 weeks with significant differences between the control (non-H200) and H200 groups
- At the end of the study, residual deficits were significantly less in the H200 group versus the control group.



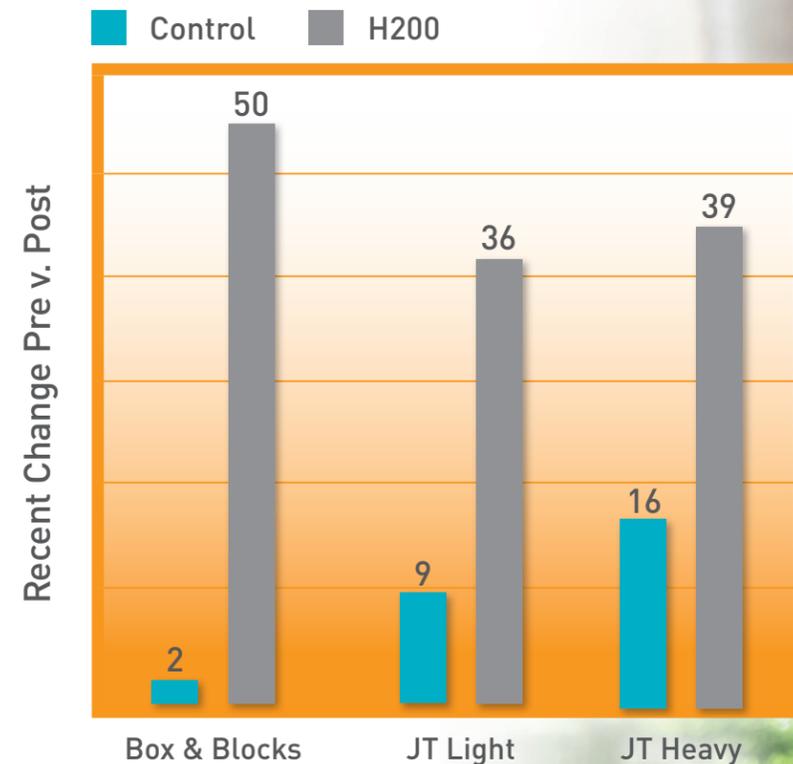
Clinical Evidence Suggests Significant Improvements in Hand Function and Daily Activities with the H200® System

A sub-acute stroke study by Ring assessed the use of the H200 System in daily therapy and showed significantly improved outcomes vs. a control group.¹

Ring and Colleagues Findings¹:

- A six-week home-based H200 program resulted in significantly greater improvements in reduction of muscle spasms throughout the upper extremity and active range of motion in the shoulder and wrist.
- In individuals with partial active motion of the hand, greater functional recovery of the upper extremity was demonstrated by statistically significant differences in all 4 functional hand tests.
- All individuals that reported edema at onset in the H200 group demonstrated improvements.

Type II Patient Outcomes



Type I: Patients with no active voluntary motion at the fingers and wrist. (n=10)
 Type II: Patients with partial active voluntary range of motion. (n=12)



Maximize Your Therapy Goals with the H200® Wireless System

Bioness understands that the primary goals of therapy are to return your patients to their original functional state prior to the neurological injury and to enhance their quality of life. However, there are a number of challenges in reaching these goals.

- Managing increasing case loads
- Increasing patient productivity and outcomes
- Shorter in-clinic length of stays or out-patient treatment

The H200 Wireless System can help you increase your patient's therapy time through easy integration into their daily life, increasing the ability to achieve the continuous repetitions needed to recover function more quickly.

Advanced Technology from Bioness Motivates Your Patients and Maximizes Outcomes

- Clinical evidence suggests that the H200 System may significantly improve hand function
- Easy integration into your patient's daily life allows for increased therapy time in and out of the clinic
- Integration into daily life increases patient compliance and improves patient outcomes

H200® Wireless Hand Rehabilitation System – Grasp Onto Life!

The H200 Wireless System consists of three wireless components that make therapy in the clinic and integration into daily life easier.

H200 Orthosis

- Wireless, lightweight and comfortable, providing constant electrode contact over desired muscles

Small Hand-held Control Unit

- Communicates wirelessly with the system and the Clinician's Programmer

PDA

- Intuitive touch screen technology for easy programming and patient activity tracking

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1. Ring H, et al. 2005. *J Rehab Med.* 37:32-36.
2. Alon G, et al. 2002. *J Stroke Cereb Dis.* 11(2):99-106.
3. Alon G, et al. 2007. *Neurorehabil Neur Repair.* 21(3):207-215.
4. Alon G, et al. 2003. *NeuroRehabil.* 18(3):215-225.

Individual results vary. Patients are advised to consult with a qualified physician to determine if this product is right for them. Contraindications, Adverse Reactions and Precautions are available on-line at www.bioness.com (also available in the NESS H200 Wireless Clinician's Guide).