

# Testimonials

After some analysis and instruction by a physical therapist, I used the hand therapy device for several weeks. I increased the tension settings as I became stronger. Within 3 weeks of using the device, I noticed a marked difference in both lack of pain and increased strength. Now, several months after using the device, I have no pain and I believe my dominant hand is now the strongest again."  
Andy Weighart, Branchburg, NJ

The Hand Facilitator is extremely versatile, which is one of my favorite features of the device. It provides the therapist with the ability to manage the resistance of each tool unilaterally, as well as to easily exchange and adjust attachment tools, which allows for an array of interventions that are supported by neuroplasticity and provide functionally relevant treatments. In addition, my clients that have used The Hand Facilitator during sessions have remarked on the joy that it brings them to perform movements that they connect to everyday function."  
Haley Crouse, MS OTRL

The device and its tools are easily accessible and can be quickly adjusted to meet almost any client's needs, which allows for increased client-therapist interaction within an occupational therapy session. In addition, my clients who participate in interventions with the Hand Facilitator continue to independently link each tool to multiple functional applications, which motivates them to improve performance. I enjoy being creative and maximizing the potential of the device, using it in conjunction with functional electrical stimulation, postural retraining, and integrating it bilaterally. The Hand Facilitator has helped my clients reach their desired functional outcomes and promotes the latest trends in research, all while allowing the delivery of skilled, meaningful services."  
Kyle Medearis, MS OTRL, CBIS

The Hand Facilitator was developed based on clinical research and evidence-based practice.

"In a study by Wells, a dynamometer was developed to measure three force and moment components in conjunction with pinch or power grip forces. The study revealed that the flexors are not recruited as much as those muscles utilized for rotational movements during moments of force." Ergonomics, 2001, Vol.44 No 15: "Characterizing human and prehensile strength by force and moment wrench"  
Richard Wells and Michael Greig.

"A study by Mudie and Matyas showed that unilateral performance tests with the hemiplegic arm using the bilaterally trained actions demonstrated clinically and statistically significant improvements in movement patterns. Bilateral simultaneous movement promotes interhemispheric disinhibition that may allow reorganization by sharing of normal movement commands from the undamaged hemisphere".  
Mudie and Matyas, Disability and Rehabilitation (Jan. 2000) <http://www.ncbi.nlm.nih.gov/pubmed/10661755>

"Those individuals with little or no distal movement are more likely to lack corticospinal tract integrity and might benefit more from bilateral training. Also mildly impaired subjects are likely to benefit from practice of bilateral task requiring bimanual dexterity as this type of training is more suitable for improving outcomes in activities of daily living."  
Wiley Interscience, 10 June 2009. A review of bilateral training for upper extremity hemiparesis by Mary Ellen Soykov; Rehabilitation institute of Chicago and Daniel M. Corcos. University of Illinois at Chicago.



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Prepare your patients for the most efficient occupational activity!

- Rather than just training grip or pinch force alone; Increase prehensile strength and fine individual finger function using force and moment wrench by generating torque from the pronators and supinators using rotational movements.
  - Using THE HAND FACILITATOR" in daily therapy programs helps patients to recover range of motion, flexibility and strength, by mimicking movements used in daily life activities!
  - The Hand Facilitator allows gripping and turning and continuous motion in a single direction with adjustable resistance. As gradual resistance builds, the demand and load of the hand and forearm increase resulting in maximum muscle activity due to the force and moment wrench produced by the generated torque of the pronators and supinators.
  - The Hand Facilitator is a single easy to use, easy to store unit that provides a variety of working tools to improve all wrist function and overall prehensile ability, increase not only grip strength, but also manual dexterity.
  - The Hand Facilitator makes relearning movement easier. Its versatility allows bilateral work and self-biofeedback. The Hand Facilitator allows dual-sided manipulation offering an efficient optimal rehabilitation session through Bilateral Isokinematic Training.
- FURTHER BENEFITS INCLUDE:
- Complete portability and wheelchair user friendly. The hand Facilitator connects to an adjustable stand, it can be positioned to work at every height, next to a wheelchair or at any level platform.
  - The Hand Facilitator can be used by the patient in seating or standing position: Helping with or improving standing balance during hand manipulation activities.
  - It can be set up to treat two patients at the same time.
  - Tools are sized for large, medium or small hands for pediatrics.



### Wrist Bar

Do you have a patient who lacks supination to be able to flip pancakes, starting a motorcycle, using cooking utensils grabbing holding and transporting pots and pans in the kitchen. Holding a toothbrush, or using a screwdriver? Use the wrist Bar to train and improve cylindrical grip, grip strength, wrist flexion, extension, pronation and supination.



### Hand Wheels

Use this tool to train and improve pulp tip grip, tripod grip combined with ulnar deviation, radial deviation, and circumduction: The handwheel provided in the hand facilitator tool kit is an excellent tool to improve your patient's ability to open and close jars, pills containers, hammering and the best tool to train writing skills.



Even if you use adaptations; your patients still have to be able to grip and turn to open jars.

### Door knob

Use this tool to train and improve spherical grip strength and combined with pronation and supination to improve your patient's ability to grab and turn a knob when opening and closing doors.



### Finger Knob

Train and Improve pincer grasp with digital rotation and added pronation and supination. Improve your patient's ability grasp and rotate their finger and wrist to turn kitchen knobs, screw and unscrew, etc.



### Door Handle

Improve wrench grip and the ability of carry-ing with handle with mechanical torque advantage. Improve your patient's ability to use tools such as wrenches, and open doors with handles



# THE HAND FACILITATOR



## Facilitating Hand Rehabilitation

- Faster Function Recovery!
- Transfer your patient's therapy session exercises to Real Life Activities.

### Finger Wheels

Improve finger distal grip, finger abduction and adduction. Facilitates in hand manipulation, translation, shift and rotation. Improve your patient's, fine pincer grasp and strength to open pill bottles, the ability to turn knobs and small objects in hand manipulation.



### Thumb Screw and Eye Bolts

Improve key pinch, lateral pinch, palmar grip and side opposition: Strengthen individual digit/thumb opposition. create appropriate opposition forces in a lateral pinch grip by generating sufficient torque from the pronators and supinators. Real Life tasks: starting a car with a car key, using a door key,



### Star Knobs

Our Star Knobs Facilitate the development of Tripoid pincer grip. The continuous motion of the hand facilitator, facilitates and strengthen finger grip and thumb opposition. Enabling your patients to screw and unscrew small cylindrical caps.



### Finger Butterflies

The finger butterfly is a one of a kind tool to improve individual finger function, and strengthen digit flexion, extension, and abduction work on finger press activities, finger push ups, thumb circumduction and opposition. Improve activities such as typing, clicking the mouse and buttons, use of phone and calculators, playing instruments such as a piano.

