



# SmartStep™

## Accelerates the Rehabilitation Process of CRPS Patients

### Overview

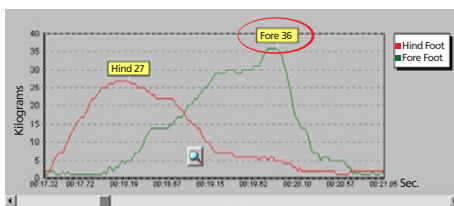
L.R. is a 20-year-old soldier who was injured in action when his left foot was crushed under a tank hatch. He suffered from severe pain in his foot as well as swelling and hemorrhaging. Though his X-rays did not indicate fracturing, his doctors suspected a fracture in the first metatarsal bone.

Three weeks after the injury, the swelling and hemorrhaging disappeared and L.R. was able to wear shoes and start physical therapy, but the pain persisted, limiting motion severely. Over the course of the next six months, the pain spread out proximally from his foot to the lower limb. Upon further medical examination, L.R. was diagnosed as a Complex Regional Pain Syndrome (CRPS) patient and was subsequently hospitalized for two months.

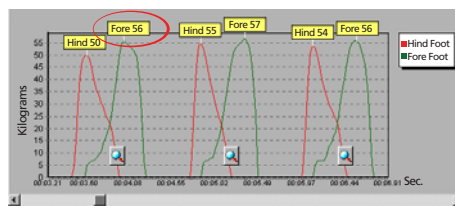
### SmartStep™ – Validates, Stimulates & Motivates

SmartStep™ was introduced into L.R.'s rehabilitation program eight months after the injury and constituted a dramatic turning point in his treatment. In the first SmartStep™'s evaluation, L.R. could bear just 30% of his body weight on his forefoot. SmartStep™'s assessment provided an objective measurement of his entire weight-bearing status, especially the heel vs. forefoot loading pattern.

The objective evaluation enabled setting up an effective heel-to-toe biofeedback training regimen. 20 days after beginning treatment with SmartStep™, L.R.'s weight-bearing capability improved dramatically and he could bear up to 80% of his body weight on the forefoot. After six more weeks with SmartStep™, L.R. could bear 100% of his body weight on the forefoot, and his heel-to-toe pattern was normal.



Second evaluation with SmartStep™



After six weeks using the SmartStep™

SmartStep™ validated his status and provided effective biomechanical feedback training, which improved treatment and increased L.R.'s motivation for full recovery.

### Conclusion

When L.R. started to use SmartStep™, he could bear just 30% of his body weight on his forefoot. After six weeks of SmartStep™ use, L.R. could bear 100% of his body weight on the forefoot and his gait pattern was normal.

At the end of the rehabilitation process, L.R. was able to walk without using any aids, go up and down stairs and return to a normal, productive life.

**“SmartStep” proved to be a crucial factor in L.R.'s rehabilitation, by setting up effective treatment, quantifying its progress and motivating the patient to get results**”

Sarah Peleg  
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