

CLINICAL CASE STUDY · CASE 5

Clinical Case Study

Stimel-03

Silver Stream



Patient & Treatment Snapshot

Region	Indonesia
Patient profile	55-year-old male
Condition / indication	Right Side Stroke for almost 2 years
Device	Stimel - 03
Treatment period	April 2026 - Current
Sessions completed	Three Times Weekly
Primary outcome	Treated Side: Right Leg, Right Thigh, Right Extensor, Flexor, and Tricep

Introduction

The patient being treated in Indonesia is having a moderate ischemic stroke on the left part of the brain. This condition already had a recovery action needed to recover from the condition, starting one year ago. The recovery process involves recovering from the movement limitation due to the stroke condition and strengthening the patient's condition. The willingness of the patient and are very strong to be able to grow their strength to improve their ability. This case shows the moral willingness of the patient is still very good throughout the years, and this also drives him to train before using the Stimel to be improved on the daily condition.

Patient Information

The Patient are Male with a historical condition of Stroke that being recognized on late January 2024. The stroke hit the right side of the Patient. During the 2 years time the patient has already been having physiotherapy and having a good improvement for movability. But in 2026, the conditions are constant, and the patient still has

some condition which a Right Hand moving ability is still limited, with frozen finger and weakness of the lower limb in the adductor.

Baseline Clinical Status

- Patient Upper Limb Hand and Shoulder Showing are having a limitation to make a movement voluntarily, but for the majority of daily movements, the patient already has a quite normal condition, even sometimes the patient can feel very weak on the hand parts
- The lower limbs need to be strengthened even though the patient is already able to walk on a daily basis

Intervention

Intervention use the Stimel - 03 as the main occupational therapy device. The combination being use are the Biofeedback and the Motor Stimulation menu, which are conducted on 3 days a week therapy with around 1-hour sessions per day.

The therapy is also accompanied by a daily stretching exercise that is being provided by the therapist team to improve the progress outside the Stimel - 03 therapy session. The Patient also regularly having a workout exercise using dumbbells to improve it strength ability

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Clinical Course

The patient has a willingness which driven by himself to push each limb session with a 15 minutes non stop biofeedback training to make a muscle strengthening and improve the flexibility of the movement of the patient. The family was also able to facilitate the exercise machine for the patient, and provide good nutrition to boost the neural improvement and the muscle recovery of the patient. These conditions created a setting in which formal treatment sessions involved repeated activity of patient movement.

Outcomes

After 12 total therapy sessions, the patient is improving very well and is able to develop strength and do activities on an everyday basis with ease. Overall improvement was considered clearly noticeable after 3 sessions of therapy. In addition,

muscle strength is improving for the patient as the patient is no longer experiencing a tremor in the hand, and it is also able to improve endurance, increasing from ~15 minutes to ~20 minutes during biofeedback sessions. Combine with a motor stimulation session, which boosts the muscle strength for daily activities.

Discussion

The combination of the Stimel - 03 Stimulation to improve the patient's condition is very essential, in which the Stimel - 03 is sharpening the neuro capabilities to strengthen the patient's ability to move on a daily basis and also develop the muscles by giving a muscle contraction exercise, which resulted positively towards the patient.

Conclusion

The Stimel - 03 is taking an important role to help 53 years old Indonesian with an ischemic stroke patient to improve their strength and movement ability from often having a triggered condition to almost normal in a very short treatment session, more or less 12 sessions. The case supports the practical importance of muscle stimulation, combined with neural ability, with the proper family support and facilities to help the patient to move, gradually improving it condition throughout the time.

Stimel-03 by Motion Informatics clinical-grade neuromuscular rehabilitation in a portable, patient-friendly device.