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STUDIES

RECK Medical Devices

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1 **STROKE**

Stroke

1.12 GB 713.3/W2582

Ambrosini et al. 2011

Cycling Induced by Electrical Stimulation Improves Motor Recovery in Postacute Hemiparetic Patients

Politecnico di Milano; Italy

THERAPY / INTERVENTION	PARTICIPANTS	AGE, Ø-YEARS	DURATION AND FREQUENCY	RESULTS	SIGNIFICANCE (5 %)	DESIGN - LoE
MOTomed viva2 + FES	IG = 15	59.0 ± 14.0	4 weeks 25 min, 5 / week	IG: motricity index IG: trunk control test	p < 0.001 p = 0.001	Ib RCT
MOTomed viva2	CG = 15	56.0 ± 10.0		IG: upright motor control test IG: pedal symmetry	p = 0.005 p = 0.038	

1.11 GB 713.3/W506

Podubecka et al. 2011

Cyclic Movement Training versus Conventional Physiotherapy for Rehabilitation of Hemiparetic Gait after Stroke: a Pilot Study

Faculty of Neurology Kipfenberg; Germany

Result: A four-week MOTomed training improved efficiency, balance, cardiac capacity and quality of life in stroke patients.

THERAPY / INTERVENTION	PARTICIPANTS	AGE, Ø-YEARS	DURATION AND FREQUENCY	RESULTS	SIGNIFICANCE (5 %)	DESIGN - LoE
MOTomed viva2 + PT	IG = 10	58.45 ± 13.73	4 weeks 30 min, 5 / week	balance (BBS)	p < 0.05	Ib RCT
gait rehabilitation + PT	CG = 10					

1.10 GB 713.3/EB203

Skvortsova et al. 2011

Current Approaches to Restoring Walking in Patients During the Acute Phase of Cerebral Stroke

Russian State Medical University, Moscow; Russia

THERAPY / INTERVENTION	PARTICIPANTS	AGE, Ø-YEARS	DURATION AND FREQUENCY	RESULTS	SIGNIFICANCE (5 %)	DESIGN - LoE
MOTomed viva2 (or GT) + PT	IG = 53	59 ± 10.4	2 weeks 20 min, 5 / week	walking ability balance	p < 0.001 p < 0.001	Ib RCT
PT	CG = 25			walking speed daily activities proprioception	p < 0.05 p < 0.001 p < 0.05	

1.9 GB 716.1/W10

Diserens et al. 2010

Effect of Repetitive Arm Cycling Following Botulinum Toxin Injection for Poststroke Spasticity: Evidence From fMRI

Centre Hospitalier Universitaire Vaudois (CHUV) and University of Lausanne; Switzerland

Result: Passive MOTomed training in combination with botulinum toxin injection lead to an improvement of arm motor function and a diminished tendency for spasms in stroke patients.

THERAPY / INTERVENTION	PARTICIPANTS	AGE, Ø-YEARS	DURATION AND FREQUENCY	RESULTS	SIGNIFICANCE (5 %)	DESIGN - LoE
MOTomed viva2 + BOTOX	IG = 4	49.0 ± 10.0	12 weeks 30 min, 3 / week	muscle tone, GRMA	p < 0.05	Ib RCOS
BOTOX + cards	CG = 4					

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