









22nd SIG Mobility In-Between Meeting – Tel-Aviv, Israel

Brain, cognition and movement in MS: challenges for rehabilitation

28th - 29th October 2019

Hosted by the SIG Mobility,
Carme Santoyo - Chair (Spain) and Lousin Moumdjian - Co-chair (Belgium)

Local organizer Alon Kalron
Department of Physical therapy, Sackler Faculty of Medicine, Tel-Aviv
University, Tel-Aviv, Israel
Multiple Sclerosis Center, Sheba Medical Center, Tel-Hashomer, Israel

Final Program

Sunday – October 27th, 2019

19.00-Late	Welcome reception
	Kfar Maccabiah Hotel
19:15-19:45	Shay Menascu, Multiple Sclerosis Center, Sheba Medical Center, Tel-
	Hashomer, Israel
	Title: Rehabilitation in child and juvenile MS (Sponsored be Merck)
20.00 to late	Cocktail dinner

Monday – October 28th, 2019

8.30-8.45	Registration opens
	Tel-Aviv University, School of Health Professions
8.45-10.30	Opening session
8.45 - 9.00	Welcome: Carme/Lousin/Alon
9.00 - 9.35	Keynote 1: Gilles Allali, University of Geneva, Switzerland
	Title: Brain correlates of gait disorders in multiple sclerosis
9.35-10.30	Session 1: Free papers (5)
	Chair: Anat Achiron, Peter Feys
9.35 - 9.45	Michal Rivel (Israel) Central neuropathic pains in multiple sclerosis is
	associated with widespread damage to thermal processing and pain
	modulation pathways.
9.45 – 9.55	Kim-Charline Broscheid (Germany) Estimation of prefrontal cortex activation
	while walking in multiple sclerosis
9.55 - 10.05	Johanna Jonsdottir (Italy) Digital health treatment for people with multiple
	sclerosis: virtual reality neurorehabilitation (Italian Network of TeleNeuro
	Rehabilitation) compared with an active exercise program. Impact on mobility
	and cognitive function
10.05 – 10.15	Veronica Garcia-Marti (Spain) Partly immersive virtual reality system for
	neurorehabilitation in multiple sclerosis: a feasibility study
10.15 – 10.25	Rita Bertoni (Italy) Immersive virtual reality for bilateral upper limb
	rehabilitation in People with Multiple Sclerosis: Preliminary Results
10.30-11.00	Coffee break
11.00-11.35	Keynote 2: Jeffrey Hausdorff, Center for the Study of Movement, Cognition
	and Mobility, Sourasky Medical Center, Tel Aviv, Israel
	Title: The effects of multiple sclerosis on community ambulation: beyond
	reduced activity
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11.35 -12.30	Session 2: Free papers (5) Chair: Massimiliano Pau, Alon Kalron
11.35 - 11.45	Giuseppina Pilloni (Italy) Cognitive-motor interference induces kinematic adaptations of gait in individuals with multiple sclerosis
11.45 - 11.55	Tom Meurrens (Belgium) The experience and expectations of pwMS after walking with the EksoGT
11.55 - 12.05	Andrea Tacchino (Italy) Kinematics, muscular activity and spinal maps activation during activities of daily living: new hints for MS rehabilitation
12.05 - 12.15	Lousin Moumdjian (Belgium) Biological variability when entraining walking to music and metronomes at different tempi: evidence from healthy controls and persons with multiple sclerosis
12.15 - 12.25	Zuhal Abasıyanık (Turkey) Psychosocial explanatory factors of balance confidence in persons with multiple sclerosis
12.30-13.30	Lunch break
13.30-14.50	Session 3: Free papers (8) Chair: Lousin Moumdjian, Elisa Gervasoni
13.30 - 13.40	Massimiliano Pau (Italy) Does multiple sclerosis differently alters physical activity levels in men and women? A quantitative analysis
13.40 - 13.50	Carme Santoyo (Spain) Effect of nordic walking training on walking capacity in people with multiple sclerosis
13.50 – 14.00	Shani Berkowitz (Israel) Acute effects of aerobic intensities on the cytokine response in women with mild multiple sclerosis
14.00 – 14.10	Fanny Van Geel (Belgium) Art for MS - Effects of a 10-week multimodal dance and art intervention program on fatigue, fatigability, and their related factors - A controlled pilot-trial
14.10 – 14.20	Stefano Addeo (Italy) Auditory cueing and aerobic training in people with multiple sclerosis. A preliminary study with full body exercises
14.20 – 14.30	Rebecca Hamilton (United Kingdom) Investigating the impact of a spinal mobilization intervention in people with multiple sclerosis.
14.30 – 14.40	Renee Veldkamp (Belgium) Cognitive-motor dual task training in people with MS: a multicenter randomized controlled study
14.40 – 14.50	Klara Novotna (Czech Republic) Effect of an aerobic-resistance circuit training on body composition in older women with multiple sclerosis, pilot study
14.50-15.30	Coffee break

15:30-17:00	Session 4: Free papers (5)
	Chair: Carme Santayo, Davide Cattaneo
15.30 - 15.40	Leora Hershkovitz (Israel) Instrumented Sit-To-Stand and Timed-Up and Go
	tests in people with multiple sclerosis
15.40 - 15.50	Peter Feys (Belgium) Day-to-day reliability, agreement and discriminative
	validity of measuring walking-related performance fatigability in persons with
	multiple sclerosis
15.50 - 16.00	Elisa Gervasoni (Italy) Instrumented assessment of physical activity in early
	diagnosed people with multiple sclerosis
16.00 - 16.10	Anastasi Denise (Italy) Instrumented assessment of more affected and less
	effected hand in people with multiple sclerosis
16.10 - 16.20	Fabiola Giovanna Mestanza Mattos (Italy) How can we clinically assess balance
	in early diagnosed people with multiple sclerosis?
16:30-17:00	Brainstorming - SIG Mobility future projects
19:15-20:00	Guided tour in old Jaffa (Bus leaves hotel at 18:45)
20:00-Late	Gala dinner and social event

Tuesday – October 29th, 2019

8.30-8.45	Registration opens
	Sheba MSC and Rehabilitation Hospital
8.45-9.20	Keynote 4: Anat Achiron, Director Multiple Sclerosis Center, Sheba Medical Center, Tel-Hashomer, Israel
	Title: Advances in cognitive rehabilitation in MS (Sponsored by Roche)
9.20 - 10.00	Beatube activity
10.00 – 10.15	Short break
10.15 - 11.05	Session 5: Free Papers (5)
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10.45 – 10.55	Thomas Bowman (Italy) Physical therapy interventions to improve mobility in People with multiple sclerosis: Preliminary results of a multicenter Italian study
10.55 – 11.05	Fanny Van Geel (Belgium) The effect of the WalkWithMe application on physical activity, walking, fatigue and cognition in patients with Multiple Sclerosis
11:05-11.20	Coffee break
11.20-13.15	Switching workshops Workshop 1: Advanced virtual reality systems for MS rehab (Hani / Richard) Workshop 2: "Rehabilitation in movement" Steps clinic (Boaz / Ilanit)
13.15- 14.15	Lunch break
14.15-15.00	Tour of the Sheba MS Center and Rehabilitation Hospital
15.00 –16.30	Switching workshops Workshop 3: Gamification of physical rehabilitation in MS (Gadi) Workshop 4: Re-Step Rehabilitation system (Simona)
16.30 –16.45	Summary and Close of the meeting Welcome to the 2020 23 rd SIG Mobility in