way of measurement in neurological diseases including fibromyalgia, whereas the impact of RET on locomotion remains unknown.

**Participant.** Sixteen patients meeting ACR criteria for FM were included.

**Methods.** Patients performed 12 weeks of ergocycle exercise training, according to the American College of Sports Medicine recommendations, associated with balneotherapy and relaxation. Gait analysis was performed by a validated ambulatory accelerometric method (Locometrix). Gait markers were: walking velocity (m/s), stride length (m), stride frequency (Hz), stride regularity (dimensionless), and cranio-caudal power (W/kg), which are considered as a measurement of kinesia. In addition, Timed Up and Go test (TUG) and One Leg Balance Test with eyes open (EO) and with eyes closed (EC) were performed.

**Analysis.** Using non-parametric statistics, an intention to treat model was used to analyze the results.

**Results.** Timed Up and Go test scores were respectively (before; just after and after 6 month): 9.5 ± 2.4; 8.1 ± 1.7 (P < 0.05) and 8.6 ± 2.1 s (NS), OLB scores were with EO: 38.4 ± 30.1; 47.3 ± 43.1 (NS) and 39.0 ± 38.6 (NS) and with EC: 7.4 ± 5.4; 10.7 ± 9.8 (P < 0.05) and 7.4 ± 3.7 (NS). The mean walking velocities were respectively 1.1 ± 0.1; 1.2 ± 0.1 (P < 0.05) and 1.2 ± 0.1 (P < 0.05). Stride frequencies were 0.95 ± 0.09; 0.98 ± 0.07 (P < 0.05) and 0.96 ± 0.07 (NS) and stride lengths were 1.12 ± 0.05; 1.17 ± 0.08 (P < 0.05) and 1.21 ± 0.1 (P < 0.01). Stride regularities were 293 ± 28; 312 ± 35 and 287 ± 41. The cranio-caudal powers were 3.1 ± 1.5; 4.4 ± 1.5 (P < 0.05) and 3.5 ± 1.2 W/Kg (NS).

**Discussion.** Benefits regarding balance, acquired during a 12-week rehabilitation protocol, were not maintained after 3 months. Concerning the gait, only 2 parameters remained improved. This study shows the necessity of finding methods to assure continuity of acquired benefits.


**CO09-009-EN**

**Functional restoration program: Impacts on the hypothalamic-pituitary axis**

**F. Doury**, C. Valat, J.C. Métivier, B. Fouquet

**Abstracts / Annals of Physical and Rehabilitation Medicine 54S (2011) e38–e47**


**CO09-008-EN**

**VO2max in chronic pain patients: Comparative analysis with objective and subjective parameters**

F. Doury, J.-C. Métivier, M.J. Borie-Malavieille, B. Fouquet

**Abstracts / Annals of Physical and Rehabilitation Medicine 54S (2011) e38–e47**


**CO09-007-EN**

**Hypothalamic-pituitary axis**

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**Version française**

**Douleur/unités d’évaluation et de réadaptation de la douleur (UERD) en MPR**

Résumé non communiqué.


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