Supplementary Material

Leg restlessness and hyperparathyroidism in Parkinson’s disease, a further clue to RLS pathogenesis?

**Massimo Marano, MD, PhD1,3; Valeria Pozzilli, MD1,3; Alessandro Magliozzi, MD1,3; Gaia Tabacco, MD2; Anda Mihaela Naciu, MD, PhD2,3; Andrea Palermo, MD, PhD2,3; Vincenzo Di Lazzaro, MD1,3**

1Unit of Neurology, Neurophysiology, Neurobiology and Psichiatry, Department of Medicine and Surgery, Università Campus Bio-Medico di Roma, Via Alvaro del Portillo, 21 - 00128 Rome, Italy

2Department of Medicine and Surgery, Unit of Metabolic bone and thyroid disorders; Fondazione Policlinico Universitario Campus Bio-Medico, Rome, Italy

**3**Fondazione Policlinico Universitario Campus Bio-Medico, Via Alvaro del Portillo, 200 - 00128 Roma, Italy.

**Correspondence:** Massimo Marano, m.marano@policlinicocampus.it

**Supplementary table 3.** Multivariated GLM of the association between rPD, PTH, vitamin D and related parameters, and motor status.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Variable** | **Estimates** | **Standard error** | **Chi-squared** | **p-value** | **Lower CL** | **Higher CL** |
| Intercept | 38.892 | 20.555 | 5.946 | 0.014 | 4.784 | 85.821 |
| PTH | -0.029 | 0.015 | 4.048 | 0.044 | -0.064 | 0.000 |
| Vitamin D | 0.007 | 0.042 | 0.031 | 0.859 | -0.072 | 0.102 |
| Calcium Intake | 0.001 | 0.001 | 1.018 | 0.313 | -0.001 | 0.004 |
| Calcium | -3.227 | -3.227 | 1,971 | 0.059 | -7,685 | 0,079 |
| Phosphate | -1.236 | -1.236 | 1,131 | 0.252 | -3,753 | 0,842 |
| UPDRS III | -0.147 | -0,147 | 0,058 | 0.001 | -0,282 | -0,049 |

GLM, generalized linear model; UPDRS, Unified Parkinson's Disease Rating Scale;