WFNR SPECIAL INTEREST GROUP ANNUAL REPORT

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| Name of Special Interest Group  | Posture Mobility Falls |
| ChairEmail | Prof Dominic PérennouDPerennou@chu-grenoble.fr |
| Co-Chair(s) where applicable |  |
| Number of Members  |  Several hundred, not formally counted |
| Key objectives and action plan   | To promote an integrated approach to the understanding, assessment and rehabilitation of postural, balance, and gait disorders, including falls, covering most neurological conditionsTo promote translational research in the field. Please see slides. To offer teaching courses |
| Activities during previous 12 months     | International seminar on verticality perception and related disorders. May 2019 in Bad Aibling (Germany). Prof J Bergmann, K Jahn, and D Pérennou EFNR 2019 congress Budapest. Two symposia, several specific sessions, many oral com and postersWFNR 2020 congress Lyon 2020. DP cochair of the congress; one symposia, several oral com and many postersTeaching: chapter in the book Clinical Pathway in Stroke Rehabilitation (Prof T. Platz edit)Research: Many papers in top journals such as JAMA Neurol, Brain, Neurology, Stroke, Annals of PRM, NNR…SCALA international project |
| Proposed activities   | More interplays with other SIGSSymposia and workshops in congressesTeaching courses with the WFNR educational committeeWebsite with the support of the WFNR?Building a network for research Debating - Editing Clinicial guidelines, review papersSpecific seminars? |
| Publications(Selected publications, relevant to 2020 SIG supported events) | J Nonnekes, N Benda, H van Duijnhoven, F Lem, N Keijsers, JW Louwerens, A Pieterse, B Renzenbrink, V Weerdesteyn, J Buurke, A Geurts. Management of Gait Impairments in Chronic Unilateral Upper Motor Neuron Lesions: A Review. **JAMA Neurol** 2018;75:751-758.S Dai, C Piscicelli, E Clarac, M Baciu, M Hommel, D Pérennou. Balance, lateropulsion, and gait disorders in subacute stroke. **Neurology** 2020 Nov Online ahead of print.J Soulard, C Huber, S Baillieul, A Thuriot, F Renard, B Aubert Broche, A Krainik, N Vuillerme, A Jaillard. Motor tract integrity predicts walking recovery: A diffusion MRI study in subacute stroke. **Neurology** 2020;94:e583-e593.S Denissen, W Staring, D Kunkel, RM Pickering, S Lennon, AC Geurts, V Weerdesteyn, G Verheyden. Interventions for preventing falls in people after stroke. **Cochrane Database Syst Rev** 2019;10:CD008728.C Lemaire, A Jaillard, I Gornushkina, C Piscicelli, S Dai, C Pichat, O Detante, M Hommel, M Baciu, D Pérennou. Functional connectivity within the network of verticality. **Ann Phys Rehabil Med** 2020 Dec 4 Online ahead of print.S Dai, C Piscicelli, C Lemaire, A Christiaens, M Thiebaut de Schotten, M Hommel, A Krainik, O Detante, D Pérennou. Recovery of Balance and Gait after Stroke is deteriorated by Confluent White Matter Hyperintensities: Cohort Study. **Ann Phys Rehabil Med** 2021 epub.Arcolin I, Corna S, Corna Stefano, Giardini M, Giordano A, Giordano Andrea, Nardone A, Godi M. Proposal of a new conceptual gait model for patients with Parkinson's disease based on factor analysis. **Biomedical Engineering Online** 2019;18: 70. |

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