

WFNR SPECIAL INTEREST GROUP ANNUAL REPORT 2020

Name of Special Interest Group	Plexopathies
Chair Email	Dr J.T. Groothuis, MD, PhD, consultant Rehabilitation medicine, Radboud university medical center, Nijmegen, The Netherlands Jan.groothuis@radboudumc.nl
Co-Chair(s) where applicable	N.A.
Number of Members	Unknown, no official members, approximately 10-15 interested WFNR members so far. Three members from the expertise center in Nijmegen itself.
Key objectives and action plan	To stimulate and communicate scientific research focused on the improvement of functional diagnosis, prognosis and treatment of persons with plexopathies of various etiologies To promote molecular, genetic, physiological, biomechanical, treatment (rehabilitation, surgical and pharmaceutical), compensatory aids and behavioral studies directed at elucidating and decreasing the impairments of persons with plexopathies The ultimate goal is to contribute to an increase in activity and participation levels of persons with plexopathies.
Activities during previous 12 months	We have proposed a plenary lecture, several workshops and symposia on various aspects of Plexopathies for the WCNR 2020 in Lyon. Unfortunately, these proposals were not selected for inclusion in the program. As was the case for our proposals for the WCNR of 2016 and 2018. During the last year there have been several activities related to education, scientific research and clinical treatment within Plexopathies. With a main focus on neuralgic amyotrophy which is the most frequent occurring plexopathy, but most of these concepts are also applicable to other plexopathies. Collaboration around the globe have been established including rehabilitation specialists/ physiatrist, neurologists, neurosurgeons, plastic surgeons, primary care, cognitive neuroscientist and clinical genetics. International collaboration on plexopathies with, among others, Switzerland, UK and USA. In the educational activities, local, national and international, individual or small groups were trained, instructed on etiology,

	<p>clinical diagnoses and treatment. In order to spread the knowledge from expert centre across the neurological and rehabilitation field.</p> <p>Research collaboration with cognitive neuroscientists and genetics focus on the etiology of the acquired movement disorders after plexopathies and hereditary forms of plexopathies, respectively. The results of the this year finalised RCT on multidisciplinary outpatient rehabilitation will guide treatment after a plexopathy.</p>
Proposed activities	<p>Interest more members to join the plexopathy SIG, via meeting in Lyon and/or mailing.</p> <p>Prepare new proposals for the WCNR 2022</p> <p>Expand collaboration and increase network members across the globe and across the different medical professions</p>
Publications	<p>None from the SIG itself.</p> <p>Altered sensorimotor representations after recovery from peripheral nerve damage in neuralgic amyotrophy. Lustenhouwer R, Cameron IGM, van Alfen N, Oorsprong TD, Toni I, van Engelen BGM, Groothuis JT, Helmich RC. Lustenhouwer R, et al. Cortex. 2020 Jun;127:180-190. doi: 10.1016/j.cortex.2020.02.011.</p> <p>Backpack palsy and other brachial plexus neuropathies in the military population. Dorhout Mees SM, van Faals NL, van Alfen N. Dorhout Mees SM, et al. J Peripher Nerv Syst. 2020 Mar;25(1):27-31. doi: 10.1111/jns.12363.</p> <p>NA-CONTROL: a study protocol for a randomised controlled trial to compare specific outpatient rehabilitation that targets cerebral mechanisms through relearning motor control and uses self-management strategies to improve functional capability of the upper extremity, to usual care in patients with neuralgic amyotrophy. Lustenhouwer R, van Alfen N, Cameron IGM, Toni I, Geurts ACH, Helmich RC, van Engelen BGM, Groothuis JT. Lustenhouwer R, et al. Trials. 2019 Aug 7;20(1):482. doi: 10.1186/s13063-019-3556-4.</p> <p>Validity and reliability of serratus anterior hand held dynamometry. IJspeert J, Kerstens HCJW, Janssen RMJ, Geurts ACH, van Alfen N, Groothuis JT. IJspeert J, et al. BMC Musculoskelet Disord. 2019 Aug 7;20(1):360. doi: 10.1186/s12891-019-2741-7.</p>

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