



The Diagnostic Value of Nerve and Muscle Ultrasound in Neuromuscular Disorders

Guest Editor:

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Message from the Guest Editor

Dear Colleagues,

High-resolution ultrasound of the nerves and muscles is an upcoming tool in neuromuscular centers.

Through the use of HRUS, one can detect nerve inflammation, fibrosis or scar tissue. In many cases, HRUS reveals nerve or fascicle area enlargement, decrease or increase of echointensity or nerve compression. Therapeutic response, change of nerve morphology during healing processes or further nerve increase correlating with pathology have been proven by our study groups in smaller studies; however, many aspects remain unclear, and further prospective, multicentric studies are necessary. Even in healthy persons, knowledge about nerve size, fascicular somatotopy, and nerve elasticity is limited, and thus, further analyses are needed.

Similarly, muscle ultrasound can detect atrophy, neurogene or myogene damage and spontaneous activities

Prof. Dr. Alexander Grimm

Guest Editor





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