



Autoantibodies in peripheral neuropathies



Dismotility syndromes

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Guillain-Barré syndrome

Lambert-Eaton syndrome

Miller Fisher syndrome

Multifocal motor neuropathy

Neuromyotonia

Neuropathy, diabetic

Motor neuropathy

Multifocal conduction block neuropathy

Sensory neuropathy

Chronic sensorimotor neuropathy demyelinating

Chronic axonal sensorimotor neuropathy

Neuritis optica


Polyneuropathy

Stiff man syndrome

Literature



Autoantibodies in peripheral neuropathies

- Diagnostic marker with pathogenetic significance
 - Diagnostic marker for indicated disease
 - Colored circles indicate markers for primary screening
 - Indicative autoantibody
 - Occasionally associated autoantibodies with marker function for other diseases
 - Autoantibodies, which may be found randomly associated but without disease specificity and without any diagnostic significance for the disease mentioned.
- ▶ Cited **literature** is marked with **red** numbers and linked with the authors given at the end of the document. By clicking the hand symbol () one returns to the top of the table.
- ▶ **Autoantibodies** cited in the following tables are linked with their respective descriptions.
- ▶ The indicated values of **sensitivity** and **specificity** crucially depend on the respective test methods, on genetic and ethno-geographical variables and on the selection of tested patient and control populations, which is reflected by the considerable variations of the indicated data. Therefore the given figures may be regarded as an approximate guide for the selection of adequate tests for a given clinical situation. For this reason also qualitative estimates such as “low”, “medium” or “high” were used.



Autoantibodies in peripheral neuropathies

Dismotility syndromes

Autoantibodies	Sens [%]	Spec [%]	Disease associations
● Myenteric plexus			

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Autoantibodies in peripheral neuropathies



Abbreviations

Sens	Sensitivity
Spec	Specificity

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Autoantibodies in peripheral neuropathies

Guillain-Barré syndrome

Autoantibodies	Sens [%]	Spec [%]	Disease associations
● GM1			
● GD1a			
● GQ1b			
● Galaktocerebrosid			
● Sialosylparaglobosid			
● Myelin associated glycoprotein			
● Peripheral nerve myelin			
● Myelin glycoprotein P0			
● Myelin glycoprotein P2			
● Calcium channel			

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Autoantibodies in peripheral neuropathies



Abbreviations

Sens	Sensitivity
Spec	Specificity
GM	Monosialo-Gangliosid
GD	Disialo-Gangliosid
GQ	Quadrosialo-Gangliosid

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Lambert-Eaton syndrome

Autoantibodies	Sens [%]	Spec [%]	Disease associations
● Calcium channel			
● Calcium channel - type P/Q (> 85 %)			
● Calcium channel - type N (30 - 50 %)			
● Calciumkanäle L-Typ (selten)			
● Synaptotagmin			
● MysB			
● Gangliosid			
● Skeletal muscle			
● Acetylcholin-Rezeptoren			

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Autoantibodies in peripheral neuropathies



Abbreviations

Sens	Sensitivity
Spec	Specificity
MysB	Myasthenic syndrome antigen B

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Miller Fisher syndrome

Autoantibodies	Sens [%]	Spec [%]	Disease associations
● GQ1b			

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Autoantibodies in peripheral neuropathies

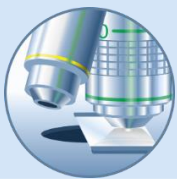


Abbreviations

Sens	Sensitivity
Spec	Specificity
GQ	Quadrosialo-Gangliosid

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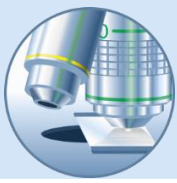


Autoantibodies in peripheral neuropathies

Multifocal motor neuropathy			
Autoantibodies	Sens [%]	Spec [%]	Disease associations
● <u>GM1</u> (IgM)			
● <u>GD1a</u>			
● <u>Hu-D</u>			

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Autoantibodies in peripheral neuropathies

Abbreviations

Sens	Sensitivity
Spec	Specificity
GM	Monosialo-Gangliosid
GD	Disialo-Gangliosid
Hu	Initials of a patient's name

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Autoantibodies in peripheral neuropathies

Neuromyotonia

Autoantibodies	Sens [%]	Spec [%]	Disease associations
● Potassium channel, Potassium channel complex			
● Acetylcholin-Rezeptoren			
● CASPR2			

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Autoantibodies in peripheral neuropathies



Abbreviations

Sens	Sensitivity
Spec	Specificity
CASPR2	Contactin-associated protein-2

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Neuropathy, diabetic

Autoantibodies	Sens [%]	Spec [%]	Disease associations
● Sulfatide			

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Autoantibodies in peripheral neuropathies



Abbreviations

Sens	Sensitivity
Spec	Specificity

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Autoantibodies in peripheral neuropathies

Motor neuropathy

Autoantibodies	Sens [%]	Spec [%]	Disease associations
● GM1 (IgM)			

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Autoantibodies in peripheral neuropathies



Abbreviations

Sens	Sensitivity
Spec	Specificity
GM	Monosialo-Gangliosid

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Autoantibodies in peripheral neuropathies



Multifocaler conduction block neuropathy

Autoantibodies	Sens [%]	Spec [%]	Disease associations
● βIV Spectrin 140			
● βIVΣ1 Spectrin			

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Autoantibodies in peripheral neuropathies



Abbreviations

Sens	Sensitivity
Spec	Specificity

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Autoantibodies in peripheral neuropathies



Sensory neuropathy

Autoantibodies	Sens [%]	Spec [%]	Disease associations
● GM1			
● Sulfatide			

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Autoantibodies in peripheral neuropathies



Abbreviations

Sens	Sensitivity
Spec	Specificity
GM	Monosialo-Gangliosid

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Chronic sensori motor neuropathy demyelating

Autoantibodies	Sens [%]	Spec [%]	Disease associations
● SGPG (IgM)			
● Myelin associated glycoprotein			

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Autoantibodies in peripheral neuropathies



Abbreviations

Sens	Sensitivity
Spec	Specificity
SGPG	Sulfoglucuronyl-paraglobosid

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Autoantibodies in peripheral neuropathies

Chronic axonal sensori motor neuropathy

Autoantibodies	Sens [%]	Spec [%]	Disease associations
● SGPG (IgM)			
● Chondroitin sulfate C			

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Autoantibodies in peripheral neuropathies



Abbreviations

Sens	Sensitivity
Spec	Specificity
SGPG	Sulfoglucuronyl-paraglobosid

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Autoantibodies in peripheral neuropathies



Neuritis optica

Autoantibodies	Sens [%]	Spec [%]	Disease associations
● Myelin basic protein			

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Autoantibodies in peripheral neuropathies



Abbreviations

Sens	Sensitivity
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Autoantibodies in peripheral neuropathies

Polyneuropathy			
Autoantibodies	Sens [%]	Spec [%]	Disease associations
● Calciumkanäle			
● Gangliosid			
● Peripheral nerve myelin			
● Myelin glycoprotein P0			
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Autoantibodies in peripheral neuropathies



Abbreviations

Sens	Sensitivity
Spec	Specificity

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Autoantibodies in peripheral neuropathies

Stiff man syndrome

Autoantibodies	Sens [%]	Spec [%]	Disease associations
● Glutamate decarboxylase			
● Amphiphisina 1			
● Amphiphisina 2			
● IA-2			
● Gephyrin			

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Autoantibodies in peripheral neuropathies



Abbreviations

Sens	Sensitivity
Spec	Specificity
IA-2	Islet cell antigen 2

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