



WESTERN NEUROPATHY ASSOCIATION

Hope through caring, support, research, education, and empowerment

SCREENING TESTS FOR CAUSES OF NEUROPATHY

Tests are blood tests, unless specified as urine or cerebrospinal fluid (CSF)

CONDITIONS	TESTS
Diabetic Neuropathy	Fasting glucose, glucose tolerance test, HgAlc
Nutritional Deficiencies	Vitamins B12 (cobalamin, B1 (thiamine), B6 (pyridoxine), copper
Toxicities (nutritional or environmental)	Blood vitamin B6 (pyridoxine), mercury, alcohol urine lead, mercury, and arsenic
Thyroid or Renal disease	TSH; thyroxine; T4; creatinine clearance
Guillain Barre Syndrome (GBS) and variants	CSF protein concentration, IgG anti-GM1, GD1a, GD1b, and GQ1b ganglioside antibodies
Chronic Inflammatory Demyelinating Polyneuropathy (CIDP)	CSF protein concentration; IgG anti-NF155 and CNTN1 antibodies
Multifocal Motor Neuropathy (MMN)	IgM anti-GM1 ganglioside antibodies
Autoimmune Autonomic Neuropathy (AAN)	IgG Anti-ganglionic acetylcholine receptor (gAChR) antibodies
MAG Neuropathy	IgM anti-MAG antibodies, serum Immunofixation electrophoresis (SIFE), quantitative immunoglobulins
Neuropathy with anti-GD1b or disialosyl ganglioside antibodies	IgM anti-GD1b antibodies, serum immunofixation electrophoresis (SIFE)

POEMS syndrome or neuropathy with osteosclerotic myeloma	Serum and urine immunofixation electrophoresis (SIFE and UIFE), free lambda light chains, Vascular endothelial growth factor (VEGF), IL6
Primary amyloidosis	Serum and urine immunofixation electrophoresis (SIFE and UIFE), free kappa and lambda light chains
Sjogren's Syndrome	Anti-SSA-Ro and SSB-La antibodies
Vasculitis	ESR, ANCA, Rheumatoid factor, ANA, dsDNA antibodies, SM/RNP antibodies, cryoglobulins, C3, C4, Hepatitis B and C
Celiac disease	Anti-gliadin and transglutaminase antibodies
Paraneoplastic neuropathies	Anti-HU (ANNA-1), VGKC LGII and CASPR2, CRMP5, and CV2 antibodies
Infectious Neuropathies	Antibodies to Borrelia (Lyme disease), HIV-1, RPR, hepatitis C and B, West Nile virus Blood or CSF PCR for viral DNA- HIV, Hepatitis C and B, Cytomegalovirus (CMV), West Nile virus,
Hereditary Neuropathies	DNA sequencing for specific genetic alterations

Source: Latov, Norman. "Evaluation and Diagnosis." *Peripheral Neuropathy: When the Numbness, Weakness and Pain Won't Stop*. 1st ed., Demos Medical Publishing, 2006, pp. 75-77.