

One of the world's leading Lyme disease specialists and Associate professor of applied Neurobiology, Dr Dietrich Klinghardt MD PhD, states, **'We never had in the last five years a single Multiple Sclerosis, ALS (Motor neuron disease) or Parkinson's patient who did not test positive for Borrelia Burgdorferi. Not a single one.'**

Australian misdiagnosis

<http://www.begadistrictnews.com.au/story/349819/lyme-disease-a-ticking-bomb/>

Her diagnosis and resulting effects make for troubling reading.

"I have been diagnosed with multiple sclerosis and I get a lot of dizziness," Ms van Teulingen said.

"I also have some spasticity in my right arm where I lose control of it sometimes.

"I have chronic fatigue and major 'brain fog' – a permanent headache.

"I've developed a heart murmur – brachycardia – and have early signs of interstitial lung disease.

"I'm often breathless and get dizzy after climbing stairs. I'm only converting oxygen at 70 per cent of normal and I go blue often – blue hands and lips."

submission 4, 86, 147,158 to the senate

UK

<http://www.dailymail.co.uk/health/article-2343062/Mother-diagnosed-MS-facing-life-wheelchair-cured--discovered-symptoms-TICK-BITE.html>

Mother diagnosed with MS and facing life in a wheelchair is cured - after she discovered her symptoms were due to a TICK BITE

- Julia Marshall-Wessendorf, 37, was diagnosed with multiple sclerosis in 2010
- An MRI scan showed lesions on her brain and spinal cord consistent with MS
- Was on expensive drug regime and thought she faced future in a wheelchair
- Developed other symptoms inconsistent with MS so did some research
- Went to doctor and asked for test for tick-borne Lyme disease
- It came back positive so she was treated with a simple course of antibiotics

- 1911 Buzzard E F *Spirochetes in M.S.* Lancet 11:98 1911
- 1913 Bullock W E (now Gye) *MS agent in Rabbits* Lancet 1185 1913
- 1917 Steiner *Spirochetes The Cause of MS.* Med Kiln
- 1918 *Simmering Spirochetes in MS by Darkfield Micro*
- 1918 Steiner G. *Guinea Pig Inoculation with MS infectious agent from Human*
- 1919 Steiner *MS Agent Inoculation into Monkeys*
- 1921 Gye F. *MS Agent In Rabbits Brain* 14:213
- 1922 Kaberlah *MS Agent In Rabbits.* Deutch Med Works
- 1922 Sicard *MS Spirochetes in Animal Model.* Rev Neurol
- 1922 Stepanopoulo *Spirochetes in the CSF of MS Patients*
- 1923 Schlossman *MS Agent in Animal Model.* Rev Neuro
- 1924 Blacklock *MS Agent in Animals.* Journal of Path and Bac
- 1927 Wilson *The Rat as A Carrier of MS.* British Med Journal
- 1927 Steiner G *Understanding the Pathogenesis of MS*
- 1928 Steiner *Spirochetes in the Human Brain of MS Patients*
- 1932 Rogers, Helen J. *The question of silver cells as proof of the spirochetal theory of disseminated sclerosis.* J. Neurol and Psychopathol. 13:50, 1932
- 1933 Simons *Spirochetes in the CSF of MS Patients*
- 1939 Hassin *Spirochete-like formations in MS*
- 1948 Adams *Spirochetes within the Ventricle Fluid of Monkeys Inoculated from Human MS*
- 1952 Steiner *Acute Plaques in MS and The Pathogenic Role of Spirochetes as the Etiological Factor.* Journal of Neuropathology Exp Med 11: No 4:343
- 1954 Steiner *Morphology of Spirochaeta Myelophthora (Myelin Loving).* MS Journal of Neuropathology and Exp Neurol 11:4 343
- 1954 Steiner G. *Acute plaques in M.S., their pathogenetic significance and the role of spirochetes as the etiological factor.* J. Neuropath. and Exp. Neur. 11:no 4:343, 1954
- 1957 Ichelson R. *Cultivation of Spirochetes from Spinal Fluids of MS Cases with Negative Controls.* Procl. Soc. Exp. Biol Med 70:411
- 1986 Gay D Dick G *Is multiple sclerosis caused by an oral spirochaete?* Lancet (1986 Jul 12) 2(8498):75-7
- 1988 Marshall V *Multiple sclerosis is a chronic central nervous system infection by a spirochetal agent.* Med Hypotheses (1988 Feb) 25(2):89-92
- 1986 (USA): *Relapsing fever/Lyme disease – Multiple sclerosis.* Medical Hypotheses, volume 21, issue 3, pages 335-343
- 2000 (Poland): *Lyme borreliosis and Multiple sclerosis: Any Connection? A Seroepidemic study.* Ann Agric Environ Med. issue 7, 141-143
- 2001 (Norway): *Association between Multiple sclerosis and Cystic Structures in Cerebrospinal Fluid.* Infect 29:315
- 2004 (Switzerland): *Chronic Lyme borreliosis at the root of Multiple sclerosis – is a cure with antibiotics attainable?*
- 2009 (Romania): *Controversies in late Neuroborreliosis and Multiple sclerosis – case series*

Steiner and Kuhn (86)

again reported finding spirochetes in the brains and spinal cords of people who had died of MS. Adams (87) found spirochetes when looking at the CSF from monkeys injected with MS tissue, and the spirochete looked similar to that of Steiner and Kuhn. No one could culture the spirochete, however, and there was general skepticism in neurologic circles despite the enthusiasm of the proponents of this theory and observations. Attempts to culture the spirochete from patients' CSF failed, but reports of a spirochete would continue to appear. Rose Ichelson of Philadelphia reported in 1957 that six years previously she had devised a culture medium that grew a few spirochetes from MS CSF, but modification of the culture resulted in a heavy growth of spirochetes in a few days (88). She reported that 59 of her 76 cases (78 percent) had positive cultures, whereas 100 percent of the normal controls were negative. The organism was a spiral organism with a loop at one end, or sometimes resembled a tennis racquet. She said it was similar in appearance to that of the *Spirocheta myelophthora* of Steiner.

Multiple Sclerosis and the Lyme Disease Connection

Lyme Disease Misdiagnosed as Multiple Sclerosis

Multiple sclerosis is a chronic central nervous system infection by a spirochetal agent <http://www.ncbi.nlm.nih.gov/pubmed/3357458?dopt=Abstract>

Lyme borreliosis and multiple sclerosis are associated with primary effusion

lymphoma http://www.ncbi.nlm.nih.gov/pubmed/17197115?ordinalpos=7&itool=EntrezSystem2.PEntrez.Pubmed.Pubmed_ResultsPanel.Pubmed_DefaultReportPanel.Pubmed_RVDocSum

BRUCellosis AND MULTIPLE SCLEROSIS <http://jama.jamanetwork.com/article.aspx?articleid=295099>

Borrelia burgdorferi antibodies in multiple sclerosis patients <http://www.neurology.org/content/39/6/760.short>

Chronic Lyme borreliosis at the root of multiple sclerosis--is a cure with antibiotics attainable? <http://www.ncbi.nlm.nih.gov/pubmed/15617845?dopt=Abstract>

Isolated monolateral neurosensory hearing loss as a rare sign of neuroborreliosis. <http://www.ncbi.nlm.nih.gov/pubmed/15060815?dopt=Abstract>

Differential diagnosis of posterior fossa multiple sclerosis lesions--neuroradiological aspects <http://www.ncbi.nlm.nih.gov/pubmed/11794484?dopt=Abstract>

Lyme borreliosis and multiple sclerosis: any connection? A seroepidemic study. <http://www.ncbi.nlm.nih.gov/pubmed/11153045>

Multiple sclerosis vs Lyme disease: a case presentation to a discussant and a review of the literature <http://www.ncbi.nlm.nih.gov/pubmed/10618695?dopt=Abstract>

Inflammatory brain changes in Lyme borreliosis. A report on three patients and review of literature <http://www.ncbi.nlm.nih.gov/pubmed/9010017?dopt=Abstract>

Multiple sclerosis is Lyme disease: Anatomy of a cover-up <http://owndoc.com/lyme/multiple-sclerosis-is-lyme-disease-anatomy-of-a-cover-up/>

The presence of anti-Borrelia burgdorferi antibodies in a group of multiple sclerosis patients in eastern Sicily <http://www.ncbi.nlm.nih.gov/pubmed/8249668?dopt=Abstract>

Multiple sclerosis or Lyme disease? a diagnosis problem of exclusion <http://www.ncbi.nlm.nih.gov/pubmed/2388492?dopt=Abstract>

Neurologic manifestations of Lyme disease, the new "great imitator" <http://www.ncbi.nlm.nih.gov/pubmed/2682960?dopt=Abstract>

Clinical pathologic correlations of Lyme disease <http://www.ncbi.nlm.nih.gov/pubmed/2814170?dopt=Abstract>

Chronic central nervous system involvement in Lyme borreliosis <http://www.ncbi.nlm.nih.gov/pubmed/3368066?dopt=Abstract>

The underdiagnosis of neuropsychiatric Lyme disease in children and adults <http://www.ncbi.nlm.nih.gov/pubmed/9774805?dopt=Abstract>

Demyelinating encephalopathy in Lyme disease <http://www.ncbi.nlm.nih.gov/pubmed/3969220?dopt=Abstract>

Argentine Patagonia: prevalence and clinical features of multiple sclerosis <http://www.ncbi.nlm.nih.gov/pubmed/18566029>

The Differential Diagnosis of Multiple Sclerosis http://journals.lww.com/theneurologist/Abstract/2007/03000/The_Differential_Diagnosis_of_Multiple_Sclerosis.2.aspx

Lyme related to MS, Fibro, Parkinsons, Lupus, CFS, ALS, Autism and other conditions <http://whatislyme.com/lyme-related-to-ms-fibro-parkinsons-lupus-cfs-and-other-conditions/>

Is Multiple Sclerosis Lyme Disease Left Untreated? <http://www.rense.com/general48/mult.htm>

MS and Lyme Disease <http://theness.com/neurologicablog/index.php/ms-and-lyme-disease/>

Lyme disease sufferer spent years being misdiagnosed <http://www.ngnews.ca/Arts-Life/2008-02-15/article-322846/Lyme-disease-sufferer-spent-years-being-misdiagnosed/>

Lyme Disease and MS: Similar or Same? <http://lymepeople.com/lyme-disease-and-ms-similar-or-same/>

Systemic Intracellular Bacterial Infections (Mycoplasma, Chlamydia, Borrelia species) in Neurodegenerative (Multiple Sclerosis, Amyotrophic Lateral Sclerosis, Alzheimer's) and Behavioral (Autistic Spectrum Disorders) Diseases <http://www.townsendletter.com/April2008/systemicintracel0408.htm>

Doctor, Do I have Lyme or MS <http://lymemd.blogspot.com/2009/01/doctor-do-i-have-lyme-or-ms.html>

The Lyme MS Connection MS sufferers PLEASE READ <http://www.mdjunction.com/forums/lyme-disease-support-forums/studies-research/373883-the-lyme-ms-connection-ms-sufferers-please-read>

All MS is Lyme disease <http://www.dailystrength.org/groups/dn/discussions/messages/12179040>

Lyme disease can masquerade as MS, ALS, even dementia and its numbers are growing tenfold. So why is Canada lagging behind in treating and diagnosing

it? <http://www.macleans.ca/society/health/the-truth-about-lyme-disease/>

Mother diagnosed with MS and facing life in a wheelchair is cured - after she discovered her symptoms were due to a TICK BITE <http://www.dailymail.co.uk/health/article-2343062/Mother-diagnosed-MS-facing-life-wheelchair-cured-discovered-symptoms-TICK-BITE.html>

Lyme disease is an illness caused by the organism Borrelia burgdorferi. Some of the neurologic symptoms of Lyme disease are similar to those of

MS <http://www.nationalmssociety.org/Symptoms-Diagnosis/Other-Conditions-to-Rule-Out/Lyme-Disease>

Lyme Disease Misdiagnosed as Multiple Sclerosis <http://www.lymeinfo.net/multiplesclerosis.html>

Multiple Sclerosis Forum - Lyme Disease mimics MS <http://ehealthforum.com/health/lyme-disease-mimics-ms-t131383.html>

When Lyme is Misdiagnosed as MS <https://katinamakris.wordpress.com/2014/12/15/when-lyme-is-misdiagnosed-as-ms/>

<http://lymehandbook.com/category/ms/>

Lyme Disease II: MS and Lyme, Cover-ups and Conspiracies <http://lymehandbook.com/2014/10/29/lyme-disease-ii-ms-and-lyme-cover-ups-and-conspiracies/>