

Multiple Sklerose (MS) und Neuroborreliose Multiple sclerosis and neuroborreliosis

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Virusarten, viruses

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- MSRV http://hal.inria.fr/docs/00/06/66/67/PDF/Rolland_et_al_Journal_of_Immunology_In_Press.pdf

Bakterien, bacteria

Spirochaeten im extra Kästchen unten,
spirocheta see below, extra box.

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http://www.ncbi.nlm.nih.gov/pubmed?LinkName=pubmed_pubmed&from_uid=23439580
- Chlamydien, Chlamydia
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Protozoen, protozoa

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Mikrofilarien, Nematoden, Microfilaria, nematodes

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Spirochaeten, spirochaeta

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Genetisches Risiko, genetic risc

[Sawcer S](#), [Hellenthal G](#), [Pirinen M](#) et al. (2011) Genetic risk and a primary role for cell-mediated immune mechanisms in multiple sclerosis. *Nature*. 2011 Aug 10; 476(7359): 214–219. doi: [10.1038/nature10251](https://doi.org/10.1038/nature10251) PMID: PMC3182531 EMSID: UKMS36028 <http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3182531/>

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«Recent advances in our understanding of lymphatic drainage of CNS, its immune surveillance and effects of gut microbiota and obesity on systemic endotoxin levels and T-cell priming may open new perspectives to understanding the roles that infectious agents and microbes may have in MS. «

**Risiken bei der Therapie mit Immunsuppressiva,
Risks in therapy with immunosuppressants**

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disease, most likely infectious; but only about 1 in 500 of the exposed individuals were clinically
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« **The diagnosis of MS and NB are difficult because of remarkably similar clinical and neuroimaging features. The infectious etiology of MS remains probable and in patients diagnosed with possible MS it is reasonable to evaluate B. burgdorferi infection in order to ensure etiologic treatment.** »

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Immunstimulantien, immune restauration, immune stimulation
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“**Inosine**: Inosine is a compound that has shown interesting preliminary results in phases I and II clinical trials.^{[31][32]} Two different mechanisms of action have been proposed. First, it produces **uric acid** after ingestion,^[33] which is a natural antioxidant;^[34] second, it has been shown to induce axonal rewiring in laboratory animals with stroke,^[35] and spinal cord injury.^[36] However it can cause health problems in a long-term treatment,^[37] mainly kidney stones.^[38] It seems that its mechanism of action is **peroxynitrite inactivation**^[39] Other reports point to an immune modulation^[40]”

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Behandle physikalisch-medizinisch und bei vitaler Indikation zusätzlich mit Antibiotika, dann aber gezielt (möglichst kausal), hart und so frühzeitig wie möglich.

Treat physically, probiotic and in case of vital indication additionally with antibiotics, but then targeted (if possible causally), hard and as early as possible.

- ➔ [Therapie – Empfehlungen bei chronischen Multiinfektionskrankheiten](#)
[Treatment recommendations in chronic multi infectious diseases](#)
- ➔ **Therapievariante 2** http://www.kabilahsystems.de/therap_02_virus.pdf
- ➔ **Therapievariante 8** http://www.kabilahsystems.de/therap_08_protozoen_oder_hefen.pdf
- ➔ **Therapievariante 9** http://www.kabilahsystems.de/therap_09_bei_mikrofilariose.pdf

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