

## Lyme-Borreliose, Epidemiologie, Klinik, Gender bias, Fachkontroverse, Cartoons Lyme-Borrelia, Epidemiology, clinic, gender bias, controversy, Cartoons

### Maps

[https://www.google.de/search?q=lyme+borreliosis+worldwide+maps&hl=de&biw=1600&bih=766&tbo=isch&tbo=u&source=univ&sa=X&ei=vd8HVb\\_GHMLJPN7PgcgL&ved=0CCUQsAQ](https://www.google.de/search?q=lyme+borreliosis+worldwide+maps&hl=de&biw=1600&bih=766&tbo=isch&tbo=u&source=univ&sa=X&ei=vd8HVb_GHMLJPN7PgcgL&ved=0CCUQsAQ)

#### Lyme borreliosis maps

<http://www.cdc.gov/lyme/stats/maps/interactiveMaps.html>

<http://www.borreliose-infektionskrankheiten.de/vorkommen-von-borreliose-infektionen.html>

#### Keim-Verbreitung unter Mammalia, germ-spreading among Mammalia

<http://www.kabilahsystems.de/borreliensexuellschwanger.pdf>

#### und über Vektoren, and by means of vectors

<http://www.insectimages.org/browse/highslide-imageservice.cfm?area=77&desc=7&page=2>

#### (2006) Borrelieninfektion, Therapieversager, Halbwertszeit v. Immunglobulinen und DNA

<http://www.erlebnishaft.de/dauerheilung.pdf>

„Die maximale Latenzzeit bis zum Auftreten von Krankheitssymptomen betrug acht Jahre.... Daher kann heute als geklärt gelten, dass die Lyme-Borreliose eine primär chronisch verlaufende Infektionskrankheit ist, bei der es in Analogie zur Syphilis keine Spontanheilung gibt. Die These eines „Durchseuchungstiters“ im Sinne einer durchgemachten, spontan überstandenen Infektion konnte nie belegt werden und sollte heute obsolet sein“.

“The maximum latency to onset of disease symptoms was eight years .... The thesis of a "Durchseuchungstiters" in the sense of had taken place spontaneously recovering from infection could never be substantiated and should now be obsolete”.

#### Cost calculations for causal treatment. Kosten bei Behandlung der Lyme-Borreliose

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## Leptospiren, leptospiren

- [Kobayashi Y](#) (2005) **Human leptospirosis: management and prognosis.** *J Postgrad Med.* 51(3), 201-4. <https://www.ncbi.nlm.nih.gov/pubmed/16333193?dopt=Abstract> « **Leptospiren are sensitive to a variety of antimicrobial agents, including penicillin, cepheps, aminoglycosides, tetracyclines and macrolides. Of these antimicrobial agents, short-term treatment with streptomycin exterminates, leptospiren. When penicillin, cepheps, tetracyclines and macrolides are used, long-term therapy with large doses may be required from the early stage of the disease until the appearance of antibodies ».**
- [Haake DA](#), [Levett PN](#) (2015) **Leptospirosis in Humans.** *Curr Top Microbiol Immunol.* Author manuscript; available in PMC 2015 May 25. Published in final edited form as: *Curr Top Microbiol Immunol.* 2015; 387: 65–97. doi: [10.1007/978-3-662-45059-8\\_5](https://doi.org/10.1007/978-3-662-45059-8_5) PMID: PMC4442676 NIHMSID: NIHMS690013 <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4442676/>

- **Differential – Diagnosen, Cavete – Diagnosen und symptomatische Behandlung, differential - diagnoses, Cavete - diagnosis and symptomatic treatment** <http://www.erlebnishaft.de/kommentalternativ.pdf>

## Epidemiologie, epidemiology

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**„Findings from this review have provided evidence of the extent of ticks and tick-borne diseases (TBDs) in geographical ranges and the existing risk areas that should be considered as baseline information to assess potential risk of these diseases. The report indicates the validity of using available literature to**

**support the presence of ticks and TBDs without further predication using weather and other environmental factors associated with the ticks survival. The report concluded that animal and human movement play more impact on the spread of the ticks and TBDs. Climate changes and flight pattern of migratory birds can influence the presence and spread of the ticks and TBDs, but have not been determined to be responsible for the widespread distribution of ticks ».**

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**« Questing nymphal and adult ticks were infected mainly by Borrelia afzelii, whereas larval ticks resulting from engorged females of the same population were solely infected by B. miyamotoi. Since larvae acquire Lyme disease spirochetes within a few hours of attachment to an infected rodent, questing larvae in nature may have acquired Lyme disease spirochetes from an interrupted host contact. »**

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## Rückfallfieber, relapsing fever, Q-Fieber (*Coxiella burnetii*)

<http://www.rki.de/DE/Content/InfAZ/Q/QFieber/Q-Fieber.html> <http://de.wikipedia.org/wiki/Q-Fieber>

„**Läuserückfallfieber** (louse-borne relapsing fever, LBRF, hauptsächlicher Erreger ist *Borrelia recurrentis*).

**Zeckenrückfallfieber** (tick-borne relapsing fever, TBRF, meist durch *Borrelia duttoni*).

**Relapsing fever** is a vector-borne disease caused by *Rickettsia* and *Borrelia*“.

Quelle, Source: <http://de.wikipedia.org/wiki/R%C3%BCckfallfieber> [http://en.wikipedia.org/wiki/Relapsing\\_fever](http://en.wikipedia.org/wiki/Relapsing_fever)

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➔ **Terminologie, Epidemiologie, Klinik**  
[http://www.erlebnishaft.de/terminol\\_epidemiol\\_klin.pdf](http://www.erlebnishaft.de/terminol_epidemiol_klin.pdf)

## Klinik

### [2015 ICD-9-CM Code 088.81](#)

#### [\[convert to ICD-10-CM\]](#) **Lyme disease**

Acute lyme disease · Arthritis due to Lyme disease · Erythema chronica migrans · Erythema chronicum migrans · Erythema chronicum migrans (skin condition) · Lyme arthritis · Meningitis due to lyme disease · Meningitis in Lyme disease...

### [2015 ICD-10-CM Code A69.2](#) **Lyme disease**

and nervous system can occur. · Lyme disease is a bacterial infection you get from... aches a stiff neck fatigue lyme disease can be hard to diagnose because you may not have... history, to figure out whether you have lyme disease. Lab tests may help at this stage... test can confirm whether you have it. antibiotics can cure most cases of lyme disease... post-lyme disease syndrome (plds). Long-term antibiotics have not been shown to help...) in europe. It is a disease with early and late cutaneous manifestations plus involvement of the nervous system, heart, eye, and joints in variable combinations. The disease was formerly known as lyme arthritis and first discovered at old lyme, connecticut. · An infectious disease caused by the spirochete borrelia burgdorferi. Early manifestations... Erythema chronicum migrans due to Borrelia burgdorferi · An infectious disease

### [2015 ICD-10-CM Code A69.20](#) [\[convert to ICD-9-CM\]](#) **Lyme disease, unspecified**

Acute lyme disease · Erythema chronica migrans · Erythema chronicum migrans · Erythema chronicum migrans (skin condition) · Lyme disease · .... The disease was formerly known as lyme arthritis and first discovered at old lyme... the joints, heart, and nervous system can occur. · Lyme disease is a bacterial... muscle and joint aches a stiff neck fatigue lyme disease can be hard to diagnose because... symptoms and medical history, to figure out whether you have lyme disease. Lab tests may help... of lyme disease. The sooner treatment begins, the quicker and more complete... symptoms. This is called post-lyme disease syndrome (plds). Long-term antibiotics have not been...)

B99.9 Borrelia bergdorfi A69.20 Lyme disease A69.20 · ..., diseased - see also Syndrome Lyme A69.20 Erythema, erythematous (infectious)

**2015 ICD-10-CM Code A69.21 [convert to ICD-9-CM] Meningitis due to Lyme disease**

Meningitis in Lyme disease · Meningitis (basal) (basic) (brain) (cerebral) (cervical) (congestive) (diffuse) (hemorrhagic) (infantile) (membranous) (metastatic) (nonspecific) (pontine) (progressive) (simple) (spinal) (subacute) (sympathetic) (toxic) G03.9 in (due to) Lyme disease A69.21...

**2015 ICD-10-CM Code A69.22 [convert to ICD-9-CM] Other neurologic disorders in Lyme disease**

in (due to) Lyme disease A69.22 Neuritis (rheumatoid) M79.2 cranial nerve due to Lyme disease A69.22 Polyneuropathy (peripheral) G62.9 in (due to) Lyme disease A69.22 · ...Cranial neuritis · Meningoencephalitis · Polyneuropathy · A nerve disease where many peripheral nerves are affected · An inflammatory process involving the brain (encephalitis) and meninges (meningitis), most often produced by pathogenic organisms which invade the central nervous system, and occasionally by toxins, autoimmune disorders, and other conditions. · Diseases of multiple peripheral nerves simultaneously. Polyneuropathies usually are characterized by symmetrical, bilateral distal motor and sensory impairment with a graded increase in severity distally. The pathological processes

**2015 ICD-10-CM Code A69.23 [convert to ICD-9-CM] Arthritis due to Lyme disease**

Lyme arthritis · Arthritis, arthritic (acute) (chronic) (nonpyogenic) (subacute) M19.90 due to or associated with Lyme disease A69.23 in (due to) Lyme disease A69.23...

**2015 ICD-10-CM Code A69.29 [convert to ICD-9-CM] Other conditions associated with Lyme disease**

Myopericarditis due to Lyme disease · Myocarditis (with arteriosclerosis)(chronic)(fibroid) (interstitial) (old) (progressive) (senile) I51.4 in (due to) Lyme disease A69.29...

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«**The overall high number of questionable cases illustrates the fact that it can sometimes be challenging to either rule out or demonstrate an association with a *B. burgdorferi* s.l. infection, even in an academic setting. Finally, we were able to establish alternative diagnoses in a large proportion of patients.**»

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- ➔ **Die kleine Diagnostik-Therapie-Fibel bei Borrelien und Ko-Infekten für Kliniker** <http://www.grin.com/de/e-book/283084/die-kleine-diagnostik-therapie-fibel-bei-borrelien-und-ko-infekten-fuer>
- ➔ **The small Diagnostic - Therapy – Booklet on Borrelia and Co – Infections for Clinicians and Practitioners** [http://www.erlebnishaft.de/inhalt\\_eng.pdf](http://www.erlebnishaft.de/inhalt_eng.pdf)
  
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## Gender bias

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**Youtube (Cartoons)** [01](#) [02](#) [03](#) [04](#) [05](#) [06](#) [07](#) [08](#) [09](#)

**Lyme disease? Bah! The Very Idea!** [http://goanimate.com/videos/0XCA4kvs8vk4?utm\\_source=facebook](http://goanimate.com/videos/0XCA4kvs8vk4?utm_source=facebook)

**Lyme Disease - Dr Phil**

<https://www.youtube.com/watch?v=regyYSAFb9I&list=PL53Pb2ML9857IVdyye5ID8f20hcvGCQwT>

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**MWV 81 - Sheldon Campbell - The Singing Microbiologist**

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[Bernt - Dieter Huisman](#) Letzte Revision November 2018 [www.Huisman.click](http://www.Huisman.click)



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