

Jarisch Herxheimer Reaktion

Die **Herxheimer-Reaktion (Jarisch-Herxheimer-Reaktion, Herx)** ist eine Reaktion des Körpers auf Bakteriengifte (Endotoxine), die durch den Zerfall von Krankheits-Erregern entsteht und zur Freisetzung von Entzündungsbotschaften führt. Die Reaktion kann mehrere Tage andauern. [Adolf Jarisch senior](#) (1850–1902), [Karl Herxheimer](#) (1861–1942).

Therapie Diphenhydramin (Benadryl®)

Literatur Entgiftung <http://www.kabilahsystems.de/entgiftung.pdf>

Literatur pH, Zuckerstoffwechsel <http://www.kabilahsystems.de/ph.pdf>

Literatur (bei erhöhten Leberwerten z.B.: Alkoholkarenz, N-Acetylcystein (NAC) und/oder Ursodesoxycholsäure). <http://www.kabilahsystems.de/adjuvantien.pdf>

Jarisch A (1895) Therapeutische Versuche bei Syphilis. Wien Med Wochenschr 45,721–42.

Herxheimer K, Krause D. (1902) Ueber eine bei Syphilitischen vorkommende Quecksilberreaktion. Deutsch Med Wochenschr 28 (50), 895–7. [doi:10.1055/s-0028-1139096](https://doi.org/10.1055/s-0028-1139096).

Fleischman K, Kreibich C (1925) Zum Wesen der Reaktion nach Jarisch-Herxheimer. Med. Klin. 21, 1157

Herxheimer K. Martin H (1926) So-called Herxheimer reactions. Arch Derm Syph 13, 115

Mahoney JF, Arnold RC, Harris A (1943) Penicillin and the Jarisch-Herxheimer reaction in early, cardiovascular and neurosyphilis. Amer J Public Health 33, 1387

Jadassohn J (1965) Beitrag zur Jarisch-Herxheimer Reaktion. Z Haut Geschlechtskr 19, 158

Knudsen EA, Aastrup B (1965) Jarisch-Herxheimer reaction in the treatment of **early syphilis** with penicillin and bismuth-arsphenamine. Br J Vener Dis 41(3), 177-80. [Full Citation](#)

Bryceson ADM, Cooper KE, Warrell DA, Perine PL, Parry EH0 (1972) Studio of the mechanism of the Jarisch-Herxheimer reaction in louse-borne **relapsing fever** evidence for the presence of circulating **Borrelia endotoxin**. Clinical Science 43, 343-54. <http://www.ncbi.nlm.nih.gov/pubmed/5077513>

Gudjonsson, Haraldur (1972) The Jarisch-Herxheimer Reaction, Stockholm. A summary based on seven publications.

Aronson IK, Soltani K (1976) The enigma of the pathogenesis of the Jarisch-Herxheimer reaction. Br J Vener Dis 52(5), 313-5. [Full Citation](#)

Gelfand JA, Elin RJ, Berry FW, et al. (1976) **Endotoxemia** associated with the Jarisch-Herxheimer reaction. N Engl J Med 295(4), 211-3. [Full Citation](#)

Bryceson AD (1976) Clinical pathology of the Jarisch-Herxheimer reaction. J Infect Dis 133(6), 696-704. [Abstract](#)

Galloway RE, Levin J, Butler et al. (1977). Activation of protein mediators of inflammation and evidence for endotoxemia in **Borrelia recurrentis** infection. American Journal of Medicine 63, 933-8.

Butler T, Jones PK, Wallace CK (1978) **Borrelia recurrentis** infection: single-dose antibiotic regimens and management of the Jarisch-Herxheimer reaction. J Infect Dis 137(5), 573-7. [Full Citation](#)

Berkowitz FE, Vallabh P, Altman DI, et al. (1983) Jarisch-Herxheimer reaction in meningococcal meningitis. Am J Dis Child 137(6), 599. [Full Citation](#)

[Warrell DA](#), [Perine PL](#), [Krause DW](#) et al. (1983) Pathophysiology and immunology of the Jarisch-Herxheimer-like reaction in louse-borne relapsing fever: comparison of tetracycline and slow-release penicillin. J Infect Dis. 147(5), 898-909. <http://www.ncbi.nlm.nih.gov/pubmed/6842024>

Steere, A.C., et al., (1983) Treatment of the early manifestations of **Lyme disease**. Ann Intern Med, 99(1), p. 22-6. **12% had J-H**

Weber K (1984) Jarisch-Herxheimer reaction in **erythema migrans disease**. Hautarzt 35(11), 588-90. [Abstract](#)

Moore JA (1987) Jarisch-Herxheimer reaction in **Lyme disease**. Cutis 39(5), 397-8. [Abstract](#)

Dattwyler, R.J., et al., (1990) Amoxicillin plus probenecid versus doxycycline for treatment of erythema migrans borreliosis. Lancet, 336(8728), p. 1404-6. **10/72 (14%) 7 in amoxicillin/probenecid group, 3 in doxycycline group**

Friedland JS, Warrell DA (1991) The Jarisch-Herxheimer reaction in **leptospirosis**: possible pathogenesis and review. Rev Infect Dis 13(2), 207-10. [Abstract](#)

Playford RJ, Schulenburg E, Herrington CS, et al. (1992) **Whipple's disease** complicated by a retinal Jarisch-Herxheimer reaction: a case report. Gut 33(1), 132-4. [Abstract](#)

Strle 1992 Strle F, Ruzic E, Cimperman J. **Erythema migrans**: comparison of treatment with azithromycin, doxycycline and phenoxymethylpenicillin. J Antimicrob Chemother. Oct 1992;30(4):543-550. **17/64 (26.6%)**

Massarotti 1992 Massarotti EM, Luger SW, Rahn DW, et al. Treatment of early **Lyme disease**. Am J Med. Apr 1992;92(4):396-403. **7/57 (12%)**

Nadelman 1992 Nadelman RB, Luger SW, Frank E, Wisniewski M, Collins JJ, Wormser GP. Comparison of cefuroxime axetil and doxycycline in the treatment of early Lyme disease. Ann Intern Med. Aug 15 1992;117(4):273-280. **28.6% of cefuroxime subjects and 8.3% of doxycycline subjects**

Strle 1993 Strle F, Preac-Mursic V, Cimperman J, Ruzic E, Maraspin V, Jereb M. Azithromycin versus doxycycline for treatment of **erythema migrans**: clinical and microbiological findings. Infection. Mar-Apr 1993;21(2):83-88. **13/107 (12.1%)**

Horowitz HW, Pavia CS, Bittker S, et al. (1994) Sustained cellular immune responses to **Borrelia burgdorferi**: lack of correlation with clinical presentation and serology. Clin Diagn Lab Immunol 1(4), 373-8. [Abstract](#)

Strominger MB, Slamovits TL, Herskovitz S, et al. (1994) Transient worsening of optic neuropathy as a sequela of the Jarisch-Herxheimer reaction in the treatment of **Lyme disease**. J Neuroophthalmol 14(2), 77-80. [Abstract](#)

Watt G, Warrell DA (1995) **Leptospirosis** and the Jarisch-Herxheimer reaction. Clin Infect Dis 20(5), 1437-8. [Full Citation](#)

Lawrence C, Lipton RB, Lowy FD, et al. (1995) Seronegative chronic relapsing **neuroborreliosis**. Eur Neurol 35(2), 113-7. [Abstract](#)

Luger, S.W., et al., Comparison of cefuroxime axetil and doxycycline in treatment of patients with early **Lyme disease** associated with erythema migrans. Antimicrob Agents Chemother, 1995. 39(3): p. 661-7. **14% had J-H**

Mikkilä H (1997) Jarish-Herxheimer reaction during the treatment of **Lyme disease** caused episcleritis. Duodecim 113(9), 845-7. [Full Citation](#)

Kaplanski G, Granel B, Vaz T, et al. (1998) Jarisch-Herxheimer reaction complicating the treatment of **chronic Q fever endocarditis**: elevated TNFalpha and IL-6 serum levels. J Infect 37(1), 83-4. [Abstract](#)

Maloy AL, Black RD, Segurola RJ (1998) **Lyme disease** complicated by the Jarisch-Herxheimer reaction. J Emerg Med 16(3), 437-8. [Abstract](#)

Kojan S, Van Ness PC, Diaz-Arrastia R (2000) Nonconvulsive status epilepticus resulting from Jarisch-Herxheimer reaction in a patient with **neurosyphilis**. Clin Electroencephalogr 31(3), 138-40. [Abstract](#)

Peschard S, Brinkane A, Bergheul S, et al. (2001) **Whipple disease** associated with pulmonary arterial hypertension. Jarisch-Herxheimer reaction after antibiotic therapy. Presse Med 30(31 Pt 1), 1549-51. [Abstract](#)

Silberstein P, Lawrence R, Pryor D, et al. (2002) A case of **neurosyphilis** with a florid Jarisch-Herxheimer reaction. J Clin Neurosci 9(6), 689-90. [Abstract](#)

Webster G, Schiffman JD, Dosanjh AS, et al. (2002) Jarisch-Herxheimer reaction associated with ciprofloxacin administration for **tick-borne relapsing fever**. Pediatr Infect Dis J 21(6), 571-3. [Abstract](#)

Grosshans E (2002) Pick-Herxheimer's disease. Ann Dermatol Venereol 129(8-9), 1063-6. [Full Citation](#)

Eppes SC, Childs JA. (2002) Comparative study of cefuroxime axetil versus amoxicillin in children with early **Lyme disease**. Pediatrics. 109(6), 1173-1177. **1 J-H in low dose cefuroxime and 1 in amox**

Fathilah J, Choo MM (2003) The Jarisch-Herxheimer reaction in **ocular syphilis**. Med J Malaysia 58(3), 437-9. [Abstract](#)

Leblebicioglu H, Sunbul M, Esen S, et al. (2003) Jarisch-Herxheimer reaction in **leptospirosis**. Eur J Clin Microbiol Infect Dis 22(10), 639; author reply 640. [Full Citation](#)

Tattevin P, Jauréguiberry S, Michelet C (2003) Meningitis as a possible feature of the Jarisch-Herxheimer reaction in **leptospirosis**. Eur J Clin Microbiol Infect Dis 22(7), 449. [Full Citation](#)

Pound MW, May DB (2005) Proposed mechanisms and preventative options of Jarisch-Herxheimer reactions. J Clin Pharm Ther 30(3), 291-5. [Abstract](#)

Prandota J (2009) The importance of **toxoplasma gondii** infection in diseases presenting with headaches. Headaches and aseptic meningitis may be manifestations of the Jarisch-Herxheimer reaction. Int J Neurosci 119(12), 2144-82. [Abstract](#)

Cheung CM, Chee SP (2009) Jarisch-Herxheimer reaction: paradoxical worsening of **tuberculosis chorioretinitis** following initiation of antituberculous therapy. Eye (Lond) 23(6), 1472-3. [Full Citation](#)

Rac MW, Greer LG, Wendel GD (2010) Jarisch-Herxheimer reaction triggered by **group B streptococcus** intrapartum antibiotic prophylaxis. Obstet Gynecol 552-6. [Abstract](#)

Liu QJ, Liu GQ, Wang SY (2011) A Jarisch-Herxheimer reaction misdiagnosed as pneumonia after an operation for laryngeal papillary lymphoma. Zhonghua Er Bi Yan Hou Tou Jing Wai Ke Za Zhi 46(4), 341-2. [Full Citation](#)

Kobayashi J, Nakagawa Y, Tobisawa S, et al. (2011) Deterioration of MRI findings related to Jarisch-Herxheimer reaction in a patient with **neurosyphilis**. J Neurol 258(4), 699-701. [Full Citation](#)

Hashimoto T, Akata S, Park J, et al. (2012) High-resolution computed tomography findings in a case of severe **leptospira infection** (Weil disease) complicated with Jarisch-Herxheimer reaction. J Thorac Imaging 27(1), W24-6. [Abstract](#)

Belum GR, Belum VR, Arudra SKC, Reddy BSN (2013) The Jarisch–Herxheimer reaction: Revisited. Travel Medicine and Infectious Disease. <http://www.travelmedicinejournal.com/article/S1477-8939%2813%2900051-3/abstract>

[Parthasarathy G](#), [Fevrier HB](#), [Philipp MT](#). (2013) **Non-viable Borrelia burgdorferi** induce inflammatory mediators and apoptosis in human oligodendrocytes. Neurosci Lett. pii, S0304-3940(13)00936-1. doi:10.1016/j.neulet.2013.10.032. <http://www.ncbi.nlm.nih.gov/pubmed/24157855>
“**These results suggest that spirochetal residues left after bacterial demise, due to treatment or otherwise, may continue to be pathogenic to the central nervous system.**”

Kadam P, Gregory NA, Zelger B, Carlson JA (2014) Delayed Onset of the Jarisch–Herxheimer Reaction in Doxycycline-Treated Disease: A Case Report and Review of its Histopathology and Implications for Pathogenesis. Am J Dermatopathol 0, 1–7 <http://www.ncbi.nlm.nih.gov/pubmed/25033009>

[Bernt - Dieter Huismans](#). Start 2012, Letzte Revision Februar 2017 www.Huismans.click
Back to top: <http://www.kabilahsystems.de/herxh.pdf>

