Serologie Lyme – Borreliose

Immunglobulin G Halbwertszeit, Half-life of immunoglobulin G

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http://www.med.uni-magdeburg.de/fme/institute/ikp/publikationen/publikationen1995/med_klinik520.pdf
„Die mittlere biologische Halbwertszeit von Immunglobulin G beträgt etwa 21 Tage“.
“The mean biological half-life of immunoglobulin G is 21 days.”

Immunglobulin Halbwertszeiten in Vivo. Immunglobulins half-life times of immunoglobulins in vivo.

http://www.spektrum.de/lexikon/biologie/immunglobuline/33803 (1999) Spektrum Akademischer Verlag, Heidelberg
“Die in Vivo Halbwertszeit von IgG und IgM liegt zwischen 7 und 21 Tagen” [7 to 21 days]

https://de.wikipedia.org/wiki/Antik%C3%B6rper
„**Die in-vivo Halbwertszeit von IgG bei Patienten mit primärem Antikörpermangelsyndrom beträgt 35 Tage. Die Halbwertszeit von IgG kann jedoch von Patient zu Patient variieren, vor allem bei Patienten mit primären Immunmangelsyndromen“. [35 days]**

http://members.inode.at/593070/patho/04_immuno/Ig_Isotypen.htm
„Biol. Halbwertzeit 20-23 Tage“ [20 to 23 days]

http://www.chemie.de/lexikon/Antik%C3%B6rper.html
„Die in-vivo Halbwertszeit von IgG bei Patienten mit primärem Antikörpermangelsyndrom beträgt 35 Tage. Die Halbwertszeit von IgG kann jedoch von Patient zu Patient variieren, vor allem bei Patienten mit primären Immunmangelsyndromen. Immunglobuline und IgG-Komplexe werden in den Zellen des mononukleären phagozytischen Systems abgebaut“. [35 days]

Irani V, Guy AJ, Andrew D et al. (2015) Molecular properties of human IgG subclasses and their implications for designing therapeutic monoclonal antibodies against infectious diseases. Mol Immunol. pii: S0161-5890(15)00359-4. doi: 10.1016/j.molimm.2015.03.255.
http://www.ncbi.nlm.nih.gov/pubmed/25900877

Burgdorfer W, Barbour AG, Hayes SF, Benach JL, Grunwaldt E, Davis JP. (1982) **Lyme disease-a tick-borne spirochetosis?** Science. 216(4552), 1317-9.
http://www.ncbi.nlm.nih.gov/pubmed/?term=Burgdorfer+w+science+1982
„Samples of serum from patients with Lyme disease were shown by indirect immunofluorescence to contain antibodies to this agent. It is suggested that the newly discovered spirochete is involved in the etiology of Lyme disease.“

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Ackermann R, Boisten HP, Kabatzki J, Runne U, Krüger K, Herrmann WP (1984) Serumantikörper gegen Ixodes-ricinus-Spirochäte bei Acrodermatitis chronica atrophicans (Herxheimer). Dtsch med Wochenschr 109(1), 6-10 DOI: 10.1055/s-2008-1069128 https://www.thieme-connect.com/ejournals/abstract/10.1055/s-2008-1069128
"Using indirect immunofluorescence, IgG antibodies against the recently detected Ixodes-ricinus-spirocheta, which causes erythema chronicum migrans, could be demonstrated in all 21 persons with acrodermatitis chronica atrophicans. Titers were from 1 : 64 to 1 : 1024, specific IgM antibodies were demonstrable in only 5 patients in a titer of 1 : 64. Even after treatment with penicillin high IgG antibody titers of up to 1 : 1024 were found".

Craft J, Fischer DK, Shimamoto GT, Steere AC. (1986) Antigens of Borrella burgdorferi Recognized during Lyme Disease appearance of a **new Immunoglobulin M response** and expansion of the immunoglobulin G response late in the illness. J. Clin.Invest.1978: 934-939.

Dattwyler RJ, Volkman DJ, Luft BJ, Halperin JJ, Thomas J, Golightly MG (1988) **Seronegative Lyme disease**. Dissociation of specific T- and B-lymphocyte responses to Borrelia burgdorferi. N Engl J Med. 319(22), 1441-6. DOI: 10.1056/NEJM198812013192203 http://www.nejm.org/doi/full/10.1056/NEJM198812013192203

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"In view of our results further standardisation of Lyme disease serology is not just desirable but is urgently needed. Moreover, stronger criteria for the validation of available test kits must be applied."

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„Continuously high level of IgM after the therapy proposes the persistence of infection agents in the organism and points out the need of additional antimicrobial treatment. In most of the cases anti-treponemal IgG level also declined after the successful therapy and this confirms the appropriate treatment ».

- **IgM persistence**
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➔ **Epidemiologie, Klinik, Gender bias, Fachkontroverse, Cartoons, Epidemiology, clinic, gender bias, controversy, Cartoons**
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