

Arthritiden und Fibromyalgie

Nichtrheumatoide Arthritis, "Seronegative Arthritis"

Gonokokken, Chlostridien, Salmonellen, Staphylokokken, Haemophilus influenza, Mykobakterien, Nocardien, Streptokokken, Corynebakterien, Kristallablagerungen (Urea, Hydroxyapatit)

Rheumatoide Arthritis, "Seropositive Arthritis"

Listeria-ähnliche Cell Wall Defective Forms, Mykoplasmen, Virusarten, Propionibacterium acnes, Erysipelotrix rhusiopathiae, [Bartonellen](#)

Road Back Foundation <http://www.roadback.org/>
<http://www.roadback.org/blog/reactive-arthritis-causes-and-treatment/>

Mattman LH (2001) Cell Wall Deficient Forms. Stealth Pathogens. CRC Press
<http://www.amazon.de/Cell-Wall-Deficient-Formsstealth-Pathogens/dp/0849387671>

<http://www.erlebnishaft.de/stressvar1.pdf> <http://www.erlebnishaft.de/stressvar2.pdf> <http://www.xerlebnishaft.de/quorum.pdf>

Immunosystem

Wen H (2011), Scher JU (2015), Catrina AI (2016)

Viruses

Warren SK (2x1969, 1971, 1972, 1975, 2x1979), Schumacher HR Jr. (1975), Godzeski CW (1978), Simpson RW (1984), Cohen BJ (1986), Lovy MR (1996), Lovy MR (1996), Wollenhaupt J (1997), Takahashi Y (1998), Balandraud N (2004), Alvarez-Lafuente R (2005), Shah N (2014), Zeana C (2016),

Bacteria

Cook J (1969), Waitzkin L (1969), Fraser KB (1971), Barthelemew LE (1972), LeBar WD (1975), Denys GA (1981), Wirostko E (1989), Scerpella TA (1992), Scharr S (2002), Leirisalo-Repo M, (2003), Zeidler H (2004), Hsieh Y-F (2007), Poehlmann KE (1997 / 2012), Müller KE (2012), Markowicz M (2015),

Schüller M, II, (1893) Untersuchungen über die Ätiologie der sogen. Chronisch-rheumatischen Gelenkentzündungen. Berl. Klin. Wochenschr. 30, 865-868

Bannatyne GA, Wohlmann AS, Blaxall RF (1896) Rheumatoid arthritis: its clinical history, etiology, and pathology. Lancet 1, 1120-1125

Schüller MV (1900) Polyarthritis villosa und Arthritis deformans. Berl. Klin. Wochenschr. 124-128

Warren SK, Marmor L, Liebes DM et al (1969) **An active agent from human rheumatoid arthritis with ist transmissible in mice.** Arch. Intern. Med. 124, 629-634

Warren SK, Marmor L, Liebes DM et al (1969) **Congenital transmission in mice of an active agent from human rheumatoid arthritis.** Nature 223, 646-664

Cook J, Fincham WJ, Lack CH (1969) Chronic arthritis produced by **streptococcal L-Forms.** J. Pathol. 99, 283-297

Waitzkin L (1969) Latent **Corynebacterium acnes** infection of bone marrow. N. Engl. J. Med. 281, 1404-1405

Warren SK, Marmor L, Boak R et al. (1971) **Transmission of an active agent from rheumatoid arthritis synovial tissue to chicks,** Arch. Intern. Med. 128, 619-622

Fraser KB, Shirodaria PV, Haire M et al. (1971) **Mycoplasmas** in cell cultures from rheumatoid synovial membranes. J. Hyg. 69, 17-25

Warren SK, Marmor L, Liebes DM et al. (1972) An **active agent from rheumatoid arthritis synovial tissue**. Arch. Intern. Med. 130, 899-903 <http://archinte.jamanetwork.com/article.aspx?articleid=580389>
“**The agent in rheumatoid arthritis (RA) synovial tissue has been transmitted from individual patients to normal mice and rats by injection or ingestion. There was a variation in degree of the severity of the characteristic acute lesions in mice induced by the tissue of each individual patient. Similar characteristic lesions were induced in the same manner from RA-affected mouse and rat tissues. Neither injection nor ingestion of normal tissues induced lesions**”.

Barthelemew LE, Nelson FR (1972) **Corynebacterium acnes** in rheumatoid arthritis. Ann. Rheum. Dis. 31, 28-33

Crocker JFS, Ghose T, Rozee K et al. (1974) Arthritis, deformities, and runtng in C5-deficient mice injected with human rheumatoid arthritis synovium. J. Clin. Path. 27, 122-124

Warren SK, Marmor L, Stamm ME et al. (1975) Thermal inactivation and gradient studies of the **active agent in rheumatoid arthritis**. Rheumatology 6, 361-367

Schumacher HR Jr. (1975) Synovial membrane and fluid morphologic alterations in early rheumatoid arthritis: **microvascular injury and virus-like particles**. Ann. N.Y. Acad. 256, 39-64

LeBar WD, Mattman LH, Ross L (1975) Isolation of **cell wall deficient Mycobacterium tuberculosis** from a case of **chronic arthritis**. Henry Ford Hosp. Med. J. 23, 17-20

Wagner R (1976) **Bakterieller Einfluss auf Autoimmunreaktionen bei Rheumatoider Arthritis**: Suche nach kreuzreaktiven Antikörpern und Beitrag von Superantigenen bei induzierter Arthritis in der Maus. Dissertation Friedrich-Schiller –Universität Jena.

Godzeski CW, Boyd R, Snith CA et al (1978) **Viral-like particles** in cocultivated rheumatoid synovial cells. Arthrit. Rheum. Abstr. 21, 559

Warren SK, Marmor L, Horner HE et al. (1979) Further studies on the **specific infectious agent isolated in rheumatoid arthritis**. J. Rheumatol. 6, 135-146

Warren SK, Marmor L, Gerken SC et al. (1979) Correlation of a bioassay with the clinical status of patients with rheumatoid arthritis. Clin. Orthopaed. 144, 299-304

Denys GA (1981) Characteristics of wall deficient and classical forms of **Propionibacterium acnes from rheumatoid arthritis**. Ph. D. dissertation, Wayne State University, Detroit.

Simpson RW, McGinty L, Simon L et al. (1984) Association of **parvoviruses with rheumatoid arthritis of humans**. Science 233, 1425-1428

Cohen BJ, Buckley MM, Clewley JP et al (1986) **Human parvovirus infection in early rheumatoid and inflammatory arthritis**. Ann. Rheum. Dis. 45, 832-838

Dr. Brown (1988) Explaining his **Antibiotic Protocol for Rheumatic Diseases**. <http://vimeo.com/3154687>

Wirotko E, Johnson L, Wirotko W et al. (1989) Juvenile rheumatoid arthritis inflammatory eye disease. Parasitization of ocular leucocytes by **mollicute-like organisms**. J. Rheumatol. 16, 1446-1453. <http://www.ncbi.nlm.nih.gov/pubmed/2600945>
“**This report describes MLO parasitized lesional leukocytes in the inflammatory eye disease of 5 patients with JRA. Our results indicate that MLO caused the uveitis of these patients. The significance of these findings and rifampin treatment of MLO disease are discussed**”.

Fraser DD, Kong LI, and Miller FW (1992) Molecular detection of persistent Borrelia burgdorferi in a **man with dermatomyositis**. Clinical and Experimental Rheumatology 10, 387-390.

Scerpella TA, Engber WD (1992) **Chronic Lyme disease arthritis: Review of the literature and report of a case of wrist arthritis.** The Journal of Hand Surgery. 17(3), 571-575
<http://www.sciencedirect.com/science/article/pii/036350239290373W>

Lovy MR, Starkebaum G, Uberoi S (1996). **Hepatitis C infection** presenting with rheumatic manifestations: a mimic of rheumatoid arthritis. J. Rheumatol 23 (6), 1238–9.

Wollenhaupt J, Sieper J (1997) **Erreger- und Infektorientierte Differentialdiagnostik der reaktiven Arthritiden.** Microbiological Procedures for the Diagnosis of Reactive Arthritis. Akt Rheumatol 22(5), 191-197 DOI: 10.1055/s-2008-1043655. © Georg Thieme Verlag KG Stuttgart · New York

Takahashi Y, Muray C, Shibata S et al. (1998) **Human Parvovirus B19 as a causative agent for rheumatoid arthritis.** Proc. Natl. Acad. Sci. USA, 7, 95(14), 8227-8232

Scharr S, A Wahl, B Jurgens-Saathoff, M Mengel, HH Kreipe, Zeidler H (2002) Nodular fasciitis, erythema migrans, and **oligoarthritis: manifestations** of Lyme borreliosis caused by *Borrelia afzelii*. Scan J Rheumatol 31, 184-186.

Leirisalo-Repo M, Hannu T, Mattila L (2003) **Microbial factors in spondyloarthropathies:** insights from population studies. Curr Opin Rheumatol. 15, 408–12. [DOI PubMed](https://doi.org/10.1097/RHU.0b013e3181900000)

[Smolen JS](#), [Steiner G](#) (2003) **Therapeutic strategies for rheumatoid arthritis.** [Nat Rev Drug Discov.](#) 2(6), 473-88. <http://www.ncbi.nlm.nih.gov/pubmed/12776222>

Balandraud N, Roudier J, Roudier C (2004) **Epstein-Barr virus and rheumatoid arthritis.** Autoimmun Rev 3 (5), 362–7.

Zeidler H, Kuipers J, Kohler L (2004) **Chlamydia-induced arthritis.** Curr Opin Rheumatol. 16, 380–92. [DOI PubMed](https://doi.org/10.1097/RHU.0b013e3181900000)

Alvarez-Lafuente R, Fernández-Gutiérrez B, de Miguel S et al. (2005). Potential relationship between **herpes viruses and rheumatoid arthritis:** analysis with quantitative real time polymerase chain reaction. Ann. Rheum. Dis. 64 (9), 1357–9. <http://ard.bmj.com/content/64/9/1357.abstract>
“Herpes viruses may have a role in RA, although alternative explanations are possible: (a) defects in cellular immunity in patients with RA may result in a relatively high viral load; (b) patients with RA may be more prone to infection/reactivation. The usefulness of monitoring the DNA viral load in patients with RA is questioned by these data”.

Hsieh Y-F, Liu H-W, Hsu T-Ch et al. (2007) Serum Reactivity against **Borrelia burgdorferi OspA** in Patients with Rheumatoid Arthritis. CLINICAL AND VACCINE IMMUNOLOGY American Society for Microbiology. 14(11), 1437–1441.

(2009) **Clinical guideline** for the diagnosis and management of early rheumatoid arthritis. The Royal Australian College of General Practitioners College House 1 Palmerston Crescent South Melbourne, Victoria 3205, **Australia**. <http://www.nhmrc.gov.au/files/nhmrc/publications/attachments/cp118-early-rheum-arthritis.pdf>

[Dasgupta B](#), [Borg FA](#), [Hassan N](#), [Barracough K](#), [Bourke B](#), [Fulcher J](#), [Hollywood J](#), [Hutchings A](#), [Kyle V](#), [Nott J](#), [Power M](#), [Samanta A](#); **BSR and BHPR Standards, Guidelines and Audit Working Group.** (2010) **BSR and BHPR guidelines for the management of polymyalgia rheumatica.** [Rheumatology \(Oxford\)](#). 49(1), 186-90. doi: 10.1093/rheumatology/kep303a. Epub 2009 Nov 12. PMID:19910443 DOI:[10.1093/rheumatology/kep303a](https://doi.org/10.1093/rheumatology/kep303a) <https://www.ncbi.nlm.nih.gov/pubmed/19910443>

Scott DL, Wolfe F, Huizinga TW (2010) **Rheumatoid arthritis.** Lancet 376 (9746), 1094–108.

Wen H, Baker JF (2011) **Vitamin D**, immunoregulation, and rheumatoid arthritis. Journal of clinical rheumatology : practical reports on rheumatic & musculoskeletal diseases 17 (2), 102–7.

Institute of Medicine (2011) **Relieving pain in America: a blueprint for transforming prevention, care, education, and research. Consensus report.** Institute of Medicine, <https://www.ncbi.nlm.nih.gov/pubmed/22553896> (accessed 1/5/17)

Poehlmann KE (1997 **Dissertation, 4. Auflage 2012**) **Rheumatoid Arthritis: The Infection Connection**. Sarori Press. <http://www.amazon.com/Rheumatoid-Arthritis-Infection-Connection-Targeting/dp/0961726865>

Müller KE (2012) **Damage of Collagen and Elastic Fibres by Borrelia Burgdorferi – Known and New Clinical and Histopathological Aspects**. *Open Neurol J*. 6, 179–186. Published online 2012 Dec 31. doi: [10.2174/1874205X01206010179](https://doi.org/10.2174/1874205X01206010179) PMID: PMC3751012 **Suppl 1**
<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3751012/>

Albert HB, Lambert P, Rollason J et al. (2013) Does nuclear tissue infected with bacteria following disc herniations lead to Modic changes in the adjacent vertebrae? *European Spine Journal* 22, **Issue 4**, 690-696 <http://link.springer.com/article/10.1007%2Fs00586-013-2674-z>

Albert HB, Sorensen JS, Christensen BSch, Manniche C (2013) **Antibiotic treatment in patients with chronic low back pain and vertebral bone edema** (Modic type 1 changes): a double-blind randomized clinical controlled trial of efficacy. *European Spine Journal* 22, **Issue 4**, 697-707
<http://link.springer.com/article/10.1007/s00586-013-2675-y>

Schneide M, Krüger K (2013) **Rheumatoid arthritis – early diagnosis and disease management**. *Dtsch Arztebl* 110(27-28), 477-484 <http://www.aerzteblatt.de/int/archive/article/142371>

Albrecht PJ, Hou Q, Argoff CE, Storey JR, Wymer JP, Rice FL (2013) Excessive Peptidergic Sensory Innervation of Cutaneous Arteriole-Venule Shunts (AVS) in the Palmar Glabrous Skin of Fibromyalgia Patients: Implications for Widespread Deep Tissue Pain and Fatigue. *Pain Med*. 14(6), 895-915. doi: 10.1111/pme.12139. <http://www.ncbi.nlm.nih.gov/pubmed/23691965>

Ogrendik M (2013) Rheumatoid arthritis is an autoimmune disease caused by **periodontal pathogens**. *International Journal of General Medicine* 2013(6), 383 – 386
<http://dx.doi.org/10.2147/IJGM.S45929>
<http://www.dovepress.com/rheumatoid-arthritis-is-an-autoimmune-disease-caused-by-periodontal-peer-reviewed-article-IJGM>

“The most analyzed species of periodontopathic bacteria are Porphyromonas gingivalis, Prevotella intermedia, Tannerella forsythia, and Aggregatibacter actinomycetemcomitans.”

Scher JU, Sczesnak A, Longman RS et al. (2013) **Expansion of intestinal Prevotella copri correlates with enhanced susceptibility to arthritis**. *Elife*. 2, e01202. doi: 10.7554/eLife.01202.
<http://www.ncbi.nlm.nih.gov/pubmed/24192039>

Shah N, Hülsmeier AJ, Hochhold N, Neidhart M, Gay S, Hennet T. (2014) Exposure to mimivirus collagen promotes arthritis. *J Virol*. 88(2), 838-45. doi: 10.1128/JVI.03141-13. Epub 2013 Oct 30.
<http://www.ncbi.nlm.nih.gov/pubmed/24173233>

Kumar A (2014) **How to investigate new-onset polyarthritis**. *Best Practice & Research Clinical Rheumatology*, 28(6), 844–859 <http://www.sciencedirect.com/science/article/pii/S1521694215000212>
<http://www.researchgate.net/publication/277089440> **How to investigate new-onset polyarthritis**

Scher JU, Ubeda C, Artacho A (2015) **Decreased bacterial diversity characterizes the altered gut microbiota in patients with psoriatic arthritis, resembling dysbiosis in inflammatory bowel disease**. *Arthritis Rheumatol*. 67(1), 128-39. doi: 10.1002/art.38892.
<http://www.ncbi.nlm.nih.gov/pubmed/25319745>

Markowicz M, Ladstätter S, Schötter AM et al (2015) **Oligoarthritis Caused by Borrelia bavariensis, Austria, 2014**. *CDC EID journal* 21(6) http://wwwnc.cdc.gov/eid/article/21/6/14-1516_article

Woerner A., et al. (2015) **Biological treatment in systemic juvenile idiopathic arthritis: achievement of inactive disease or clinical remission on a first, second or third biological agent**. *RMD Open* 1, e000036. <http://rmdopen.bmj.com/content/1/1/e000036.full.pdf>

Zeana C, et al. (2016) **Post-chikungunya rheumatic disorders in travelers after return from the Caribbean**, *Travel Medicine and Infectious Disease* <http://dx.doi.org/10.1016/j.tmaid.2016.01.009>

[Mateusz Markowicz M](#), [Stefan Ladstätter S](#), [Anna M. Schötta aM](#) et al. (2015) **Oligoarthritis Caused by Borrelia bavariensis, Austria, 2014.** *Emerg Infect Dis.* 21(6), 1052–1054. doi: [10.3201/eid2106.141516](#) PMID: PMC4451909 <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4451909/>

[Sá MC](#), [Moreira C](#), [Melo C](#), [Sousa Á](#), [Carvalho S](#) (2015) **Lyme disease and juvenile idiopathic arthritis - A pediatric case report.** *Rev Bras Reumatol.* pii: S0482-5004(15)00126-6. doi: 10.1016/j.rbr.2015.08.003. [Epub ahead of print] [Article in English, Portuguese] <https://www.ncbi.nlm.nih.gov/pubmed/26498846> <http://www.sciencedirect.com/science/article/pii/S2255502115001091?via%3Dihub>

Tang TT, Zhang L, Bansal A, Grynopas M, Moriarty TJ (2016) **The Lyme disease pathogen Borrelia burgdorferi infects murine bone and induces trabecular bone loss.** *Infection and Immunity* doi: 10.1128/IAI.00781-16 IAI.00781-16 <http://iai.asm.org/content/early/2016/12/08/IAI.00781-16.abstract> <http://iai.asm.org/content/early/2016/12/08/IAI.00781-16.full.pdf+html>

Catrina AI, Deane KD, Scher JU (2016) **Gene, Environment, Microbiome and Mucosal Immune Tolerance in Rheumatoid Arthritis.** *Rheumatology.* 55(3), 391-402. doi: 10.1093/rheumatology/keu469. <https://www.ncbi.nlm.nih.gov/pubmed/25539828>

« **RA is a complex multifactorial chronic disease that transitions through several stages. ... In discussing this hypothesis, we will present herein the current understanding of mucosal immunology, including a discussion about the generation of autoimmune responses at these surfaces. We will also examine how other factors such as genes, microbes and other environmental toxins (including tobacco smoke) could influence the triggering of autoimmunity at mucosal sites and eventually systemic organ disease.** »

Weis S, Dickmann P, Pletz MW et al. (2017) **Thema Sepsis 2017. Eine neue Definition führt zu neuen Konzepten.** *Deutsches Ärzteblatt* 114(29-30, C1170-C1175 **“Sepsis 3: Sepsis ist definiert als seine lebensbedrohliche Organdysfunktion, hervorgerufen durch eine inadäquate Wirtsantwort auf eine Infektion. ...”**

Huisman BD (2017) **Chronic Inflammatory Disorders. Multisystem diseases caused by pathogens.** http://www.kabilahsystems.de/ko-erreg_eupd1.pdf

- ➔ **Chronic Fatigue, Fibromyalgie** http://www.erlebnishaft.de/chronic_fatigue.pdf
- ➔ **Angiopathie, Vasculitis** <http://www.xerlebnishaft.de/angiopathie.pdf>
- ➔ **Zahn-und Mundpflege** http://www.xerlebnishaft.de/zahn_mundpflege.pdf
- ➔ **Alzheimer** <http://www.erlebnishaft.de/alzheimerspirochaetosis.pdf>
- ➔ **Multiple Sklerose** <http://www.erlebnishaft.de/multipleskleroseborreliose.pdf>
- ➔ **Borrelie, Vasculitis, Inflammation, Lymphom, Neoplasma** http://www.xerlebnishaft.de/borrel_inflam_lymphom_neopl.pdf

Tetracycline etc. bei Rheumatoider Arthritis, tetracyclines etc. in rheumatoid arthritis

[Lauhi A](#) [Salo T](#) , [Tjäderhane L](#) , [Lähdevirta J](#), [Golub LM](#) , [Sorsa T](#) (1995) Tetracyclines in treatment of rheumatoid arthritis. *The Lancet*, [346\(8975\)](#), 645 - 646 <http://www.thelancet.com/journals/lancet/article/PIIS0140-6736%2895%2991484-6/fulltext>

ROAD BACK FOUNDATION <http://www.roadback.org/>

<http://www.roadback.org/blog/reactive-arthritis-causes-and-treatment/>

Neergaard L (2002) Rheumatoid-Arthritis Drug Found. Associated Press
<http://www.tldp.com/issue/178/Rheumatoid%20Arthritis%20Drug.html>

[Stone M](#), [Fortin PR](#), [Pacheco-Tena C](#), [Inman RD](#). (2003) Should tetracycline treatment be used more extensively for rheumatoid arthritis? Metaanalysis demonstrates clinical benefit with reduction in disease activity. J Rheumatol. 30(10), 2112-22 <http://www.ncbi.nlm.nih.gov/pubmed/14528503>
“Tetracyclines, in particular minocycline, were associated with a clinically significant improvement in disease activity in RA with no absolute increased risk of side effects.”

Skinner M, Cathcart ES, Mills JA, Pinals RS (2005) Tetracycline in the treatment of rheumatoid arthritis. A double blind controlled study. Arthritis & Rheumatism Volume 14, Issue 6, pages 727–732, <http://onlinelibrary.wiley.com/doi/10.1002/art.1780140607/abstract>

Fleischmajer R (2006) Tetracyclines: nonantibiotic properties and their clinical implications. In: Journal of the American Academy of Dermatology. Band 54, Nummer 2, 258–265, [ISSN 1097-6787](#). [doi:10.1016/j.jaad.2005.10.004](https://doi.org/10.1016/j.jaad.2005.10.004). [PMID 16443056](#). (Review)

Adwan MHQ (2009) Tetracycline Antibiotics for Treating Rheumatoid Arthritis: A Systematic Review and Meta-Analysis. Arthritis & Rheumatism, Volume 60, October 2009 Abstract Supplement
<http://www.blackwellpublishing.com/acrmeeeting/abstract.asp?MeetingID=761&id=80039>
“Tetracycline antibiotics may be potentially effective and reasonably safe in rheumatoid arthritis.”

Smith A, Doré C, Charles P, Vallance A, Potier T, Mackworth-Young C (2011) Randomised Double-Blind Trial of Combination Antibiotic Therapy in Rheumatoid Arthritis. Research Article. International Journal of Rheumatology Volume 2011, Article ID 585497, 6 pages
<http://dx.doi.org/10.1155/2011/585497> <http://www.hindawi.com/journals/ijr/2011/585497/>
“This antibiotic regime is unlikely to be a valuable therapy for active rheumatoid arthritis.”

[Smith CJ](#), [Sayles H](#), [Mikuls TR](#), [Michaud K](#) (2011) [Minocycline and doxycycline therapy in community patients with rheumatoid arthritis: prescribing patterns, patient-level determinants of use, and patient-reported side effects](#). Arthritis research & therapy 13(5), R168
http://www.researchgate.net/publication/23658833_Tetracyclines_may_be_therapeutically_beneficial_in_rheumatoid_arthritis
“Rheumatologists have not embraced minocycline or doxycycline as primary treatment options for RA and reserve their use primarily in patients with long-standing, refractory disease. These drugs are generally well tolerated, with skin complaints, nausea, and dizziness being the most common patient-reported side effects.”

Ogrendik M (2013) **Antibiotics for the treatment of rheumatoid arthritis**. International Journal of General Medicine. Volume 2014:7 Pages 43 – 47 DOI: <http://dx.doi.org/10.2147/IJGM.S56957>
http://www.dovepress.com/articles.php?article_id=15391
„Antibiotic treatment for rheumatoid arthritis (RA) commenced in the 1930s with the use of sulfasalazine. Later, tetracyclines were successfully used for the treatment of RA. In double-blind and randomized studies, levofloxacin and macrolide antibiotics (including clarithromycin and roxithromycin) were also shown to be effective in the treatment of RA.“

[Albert HB](#), [Sorensen JS](#), [Christensen BS](#), [Manniche C](#). (2013) Antibiotic treatment in patients with chronic low back pain and vertebral bone edema (Modic type 1 changes): a double-blind randomized clinical controlled trial of efficacy. [Eur Spine J](#). 22(4), 697-707. doi: 10.1007/s00586-013-2675-y.
<http://www.ncbi.nlm.nih.gov/pubmed/23404353>
“The antibiotic protocol in this study was significantly more effective for this group of patients (CLBP associated with Modic I) than placebo in all the primary and secondary outcomes.”

→ **Tetrazyklone** <http://www.kabilahsystems.de/minocyclin.pdf>

Pflanzliche Arzneimittel, Herbal medicines

Soeken, K L; Miller, S A; Ernst, E. (2013) **Herbal medicines** for the treatment of rheumatoid arthritis: a systematic review. [Centre for Reviews and Dissemination](#). [National Institute for Health Research](#). Retrieved. <http://rheumatology.oxfordjournals.org/content/42/5/652.full>

“Biologicals”, Risiken, riscs

[Listing J](#), [Strangfeld A](#), [Kary S](#) (2005) **Infections in patients with rheumatoid arthritis treated with biologic agents**. [Arthritis Rheum](#). 52(11), 3403-12. DOI 10.1002/art.21386
<http://onlinelibrary.wiley.com/doi/10.1002/art.21386/pdf>
<http://www.ncbi.nlm.nih.gov/pubmed/16255017>

American College of Rheumatology (2010) **Biologic Treatments for Rheumatoid Arthritis**.
https://www.rheumatology.org/Practice/Clinical/Patients/Medications/Biologic_Treatments_for_Rheumatoid_Arthritis/

[De Keyser F](#) (2011) **Choice of Biologic Therapy for Patients with Rheumatoid Arthritis: The Infection Perspective**. [Curr Rheumatol Rev](#). 7(1), 77–87. doi: [10.2174/157339711794474620](https://doi.org/10.2174/157339711794474620)
PMCID: PMC3182090 <http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3182090/>

Deutsche Rheuma-Liga (2012) **Basismedikamente**. https://www.rheuma-liga.de/fileadmin/user_upload/Dokumente/Mediencenter/Publikationen/Merkblaetter/4.5_Basismedikamente.pdf

Cush JJ (2013) **Prevention and Management of Serious Infections with Biologic Use in Rheumatoid Arthritis**. [DSQ 4\(4\)](#)
https://www.google.de/search?q=Rheumatoid+arthritis%3A+biological+drugs+and+risk+of+infection&hl=de&btnG=Google+Search&gws_rd=ssl

Dixon WG (2015) **Rheumatoid arthritis: biological drugs and risk of infection**. [The Lancet](#).
<http://www.thelancet.com/journals/lancet/article/PIIS0140-6736%2814%2961907-3/abstract>
<http://www.jwatch.org/fw110190/2015/05/13/biological-drugs-rheumatoid-arthritis-associated-with>
„The authors conclude: **"This new knowledge, when balanced against the clinically important benefits of biological drugs, will help patients and their physicians to make evidence-based decisions that align with their values, preferences, and tolerance of risks of harm and benefits."** - See more at:
<http://www.jwatch.org/fw110190/2015/05/13/biological-drugs-rheumatoid-arthritis-associated-with#sthash.lwrblnW.dpuf>

Kombination von Antibiotika und Immunsuppressiva. Combination of antibiotics with immunosuppressants.

[Saviola G](#), [Abdi-Ali L](#), [Campostrini L](#), [Sacco S](#), [Baiardi P](#), [Manfredi M](#), [Benucci M](#), [Bucci M](#), [Cirino G](#). (2013) **Clarithromycin in rheumatoid arthritis: the addition to methotrexate and low-dose methylprednisolone induces a significant additive value-a 24-month single-blind pilot study**. [Rheumatol Int](#). [Epub ahead of print] <http://www.ncbi.nlm.nih.gov/pubmed/23864141>

→ **Immunsuppression** <http://www.xerlebnishaft.de/immunsuppression.pdf>

→ **Standard antimicrobials** <http://www.kabilahsystems.de/antibiosetherapieplan.pdf>

[Bernt - Dieter Huismans](#) Letzte Revision Dezember 2017 www.Huismans.click
Back to top: <http://www.erlebnishaft.de/arthritis.pdf>

