

## Morgellons Krankheit, Hautborreliose, Cutaneous Borreliosis

<http://web.stanford.edu/class/humbio153/Morgellons/Background.html>

<http://www.thecehf.org/>

<http://en.wikipedia.org/wiki/Morgellons> <http://de.wikipedia.org/wiki/Morgellons>

### Bacteria and misfolded proteins

Raymond CJ (1988), Read DH (1992), Dunne Jr WM (1993), Grund S (1995), Borgmann IE (1996), Döpfer D (1997), CHOI BK (1997), Stricker RB (2007), Middelveen MJ (2011, 2013, 2015, 2 x 2016), Mayne P (2013), Finch JJ (2014), Walker R (2015), Shah, PhD (2016),

Kellett CE (1935) **SIR THOMAS BROWNE AND THE DISEASE CALLED THE MORGELLONS.** Annals of Medical History, n.s., VII 467-479

<http://penelope.uchicago.edu/letter/kellett.html> <http://penelope.uchicago.edu/letter/letter.html>

Cheli, R. and C.M. Mortellaro (1974) La dermatitis digitale del bovino. Proc. 8th International Conference on Diseases of Cattle, Milan Italy, Proc. 208-213.

Rebhun WC, Payne RM, King JM, Wolfe M, Begg SN. (1980) Interdigital papillomatosis in dairy cattle. J Am Vet Med Assoc. 177(5), 437–440. [PubMed](#)

Blowey RW, Sharp MW. (1988) Digital dermatitis in dairy cattle. Vet Rec. 122(21), 505–508. [PubMed](#)

Raymond CJ (1988) A case of septicaemia caused by Agrobacterium radiobacter. Journal of Infection. 16 (2), 205–6. [PMID 3351321](#). [doi:10.1016/s0163-4453\(88\)94272-7](#). [http://www.journalofinfection.com/article/S0163-4453\(88\)94272-7/abstract](http://www.journalofinfection.com/article/S0163-4453(88)94272-7/abstract)

Bassett HF, Monaghan ML, Lenhan P, Doherty ML, Carter ME. (1990) Bovine digital dermatitis. Vet Rec. 126(7), 164–165. [PubMed](#)

Read DH, Walker RL, Castro AE, Sundberg JP, Thurmond JC, et al. (1992) **An invasive spirochaete associated with interdigital papillomatosis of dairy cattle.** Vet Rec. 130, 59– 60.

Dunne Jr WM, Tillman J, Murray JC (1993) [Recovery of a strain of Agrobacterium radiobacter with a mucoid phenotype from an immunocompromised child with bacteremia.](#) Journal of clinical microbiology. 31 (9), 2541–3. [PMC 265809](#). [PMID 8408587](#). <http://jcm.asm.org/content/31/9/2541.abstract>

Sauvageau R, Higgins R, Jacques M, Bouchard E. (1994) Bovine digital dermatitis. Can Vet J. 35(8), 522–523. [PMC free article](#) [PubMed](#)

Hanna P, Lofstedt J, Duivenvoorden P. Prince Edward Island. (1994) Papillomatous digital dermatitis in a Canadian dairy herd. Can Vet J. 35(10), 657–657. [PMC free article](#) [PubMed](#)

Grund S, Nattermann H, Horsch F. (1995) **Zum elektronenmikroskopischen Spirochäten-Nachweis bei der Dermatitis digitalis des Rindes.** Journal of Veterinary Medicine, Series

B 42, (1-10), 533–542, Article first published online: 13 MAY 2010  
<http://onlinelibrary.wiley.com/doi/10.1111/j.1439-0450.1995.tb00745.x/abstract>  
„Eine antigene Verwandtschaft zu *Borrelia burgdorferi*, zumindest im Bereich von Geißeln und undulierender Membran zeigt sich bei der Immunelektronenmikroskopie.  
An antigenic relationship to *Borrelia burgdorferi*, at least in the range of flagella and Undulating membrane appears in the immune electron microscopy."

Borgmann IE, Bailey J, Clark EG. (1996) **Spirochete-associated bovine digital dermatitis.** Can Vet J. 37(1): 35–37. <http://www.ncbi.nlm.nih.gov/pmc/articles/PMC1576595/>

Bundesanstalt für Verbraucherschutz und Lebensmittelsicherheit (1997) Stellungnahme der ZKBS zur Einstufung von *Agrobacterium tumefaciens*.

Döpfer D, Koopmans A, Meijer FA, Szaskall I, Schukken WH, Klee W, et al. (1997) **Histological and bacteriological evaluation of digital dermatitis in cattle, with special reference to spirochaetes and *Campylobacter faecalis*.** Vet Rec. 140, 620–3.

CHOI BK, NATTERMANN H, GRUND S et al. (1997) **Spirochetes from Digital Dermatitis Lesions in Cattle Are Closely Related to Treponemes Associated with Human Periodontitis.** Int J Syst Bacteriol 47 175-181; DOI 10.1099/00207713-47-1-175

Mary Leitao (2002) Encyclopedia of American Loons  
<http://americanloons.blogspot.de/2011/07/233-mary-leitao.html>

Sekul W. (2004) Infektiöse Klauenerkrankungen eindämmen - Möglichkeiten und Grenzen des Klauenbades.  
[http://www.landwirtschaft-mlr.baden-wuerttemberg.de/servlet/PB/show/1116175\\_11/LVVG\\_klaubad\\_lituebersicht\\_04.pdf](http://www.landwirtschaft-mlr.baden-wuerttemberg.de/servlet/PB/show/1116175_11/LVVG_klaubad_lituebersicht_04.pdf)

Savely G, Leitao MM. (2005) Skin lesions and crawling sensation: disease or delusion? Adv Nurse Pract. 13, 16–7.

Savely VR, Leitao MM, Stricker RB (2006) The mystery of Morgellons disease: infection or delusion? Am J Clin Dermatol. 7(1), 1-5. Review. [PMID 16489838](https://pubmed.ncbi.nlm.nih.gov/16489838/) doi:10.2165/00128071-200607010-00001. ISSN 1175-0561

Elkan D (2007) Morgellons disease: The itch that won't be scratched. (2621). New Scientist Magazine. <http://www.newscientist.com/article/mg19526210.700-morgellons-disease-the-itch-that-wont-be-scratched.html>

Stricker RB et al. (2007) Contribution Of *agrobacterium* to Morgellons Disease. Journal of Investigative Medicine 278, 55.1, S123.  
[http://www.researchgate.net/publication/232120571\\_Contribution\\_of\\_Agrobacterium\\_to\\_Morgellons\\_Disease\\_287](http://www.researchgate.net/publication/232120571_Contribution_of_Agrobacterium_to_Morgellons_Disease_287)

Savely VR, Stricker RB. (2007) Morgellon disease: The mystery unfolds. Expert Reviews of Dermatology. 2(5), 585-591  
<http://morgellonswatch.com/2007/10/30/morgellons-disease-the-mystery-unfolds/>

"Unexplained Dermopathy (aka "Morgellons"), CDC Investigation". (2007) Centers For Disease Control. Retrieved 2011-05-09.

Accordino RE, Engler D, Ginsburg IH, Koo J (2008) Morgellons disease? Dermatol Ther. 21(1). 8-12. [PMID 18318880](https://pubmed.ncbi.nlm.nih.gov/18318880/) (pdf)

Lustig A, Mackay S, Strauss J (2009) [Morgellons disease as internet meme.](https://pubmed.ncbi.nlm.nih.gov/19213978/) Psychosomatics. 50(1):90. [PMID 19213978](https://pubmed.ncbi.nlm.nih.gov/19213978/)

Döpfer D. (2009) Digital Dermatitis. The dynamics of digital dermatitis in dairy cattle and the manageable state of disease. CanWest Conference October 17 – 20  
<http://www.hoofhealth.ca/Dopfer.pdf>

Harvey WT, Bransfield RC, Mercer DE, Wright AJ, Ricchi RM, Leitao MM (2009) [Morgellons disease, illuminating an undefined illness: a case series](#). Journal of Medical Case Reports 3(1), 8243 doi:10.4076/1752-1947-3-8243. ISSN 1752-1947

Holman CD Foundation. (2010) Morgellons Disease Information, Awareness and Support.  
[http://www.reddit.com/r/Morgellons/comments/pg39o/the\\_charles\\_e\\_holman\\_foundation\\_morgellons/](http://www.reddit.com/r/Morgellons/comments/pg39o/the_charles_e_holman_foundation_morgellons/)

Savely VR, Stricker RB. (2010) Morgellon's disease: Analysis of a population with clinical confirmed microscopic subcutaneous fibers of unknown etiology. Clinical, cosmetic and Investigational Dermatology. 3, 67-78

Conroy D. (2010), Morgellon's syndrome. Evidence of a microorganism causing an unexplained Dermopathy Enfield, New Hampshire, Science Publishers. 122 pages plus DVD. \$69.95. ISBN: 978-1-578-08673-3.

Fair B (2010) Morgellons: contested illness, diagnostic compromise and medicalisation. Sociology of Health & Illness 32(4) 2010 ISSN 0141-9889, 597-612 doi: 10.1111/j.1467-9566.2009.01227.x <http://onlinelibrary.wiley.com/doi/10.1111/j.1467-9566.2009.01227.x/pdf>

Mansfield K, Owens T, Miller P, Rowan E (2011) Washington Department of Fish and Wildlife Geographical Distribution and Prevalence of Hoof Disease in Southwestern Washington Elk Based on Hunter Surveys. <http://wdfw.wa.gov/publications/01443/wdfw01443.pdf>

[Middelveen MJ](#), [Stricker RB](#) (2011) Filament formation **associated with spirochetal infection**: a comparative approach to Morgellons disease. Clin Cosmet Investig Dermatol. 4, 167-177. doi: [10.2147/CCID.S26183](https://doi.org/10.2147/CCID.S26183) PMID: PMC3257881  
<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3257881/>

Hinkle, N.C. (2011). Ekbom Syndrome: a delusional condition of "bugs in the skin". Curr Psychiatry Rep. doi:[10.1007/s11920-011-0188-0](https://doi.org/10.1007/s11920-011-0188-0)

Neumann M. (2011) [http://www.morgellons-research.org/morgellons2/morgellons\\_symptom.htm](http://www.morgellons-research.org/morgellons2/morgellons_symptom.htm)

[Middelveen MJ](#), [Rasmussen EH](#), [Kahn DG](#), [Stricker RB](#) (2012) Morgellons Disease: A Chemical and Light Microscopic Study. J Clin Exp Dermatol Res 3(1), 140. doi:10.4172/2155-9554.1000140 <http://f1000.com/prime/716597867>  
<http://www.omicsonline.org/2155-9554/2155-9554-3-140.pdf>

Pearson ML, Selby JV, Katz KA, Cantrell V, Braden CR et al. (2012): [Clinical, Epidemiologic, Histopathologic and Molecular Features of an Unexplained Dermopathy](#) Egles, Christophe. PLoS One 7 (1), e29908. doi:[10.1371/journal.pone.0029908](https://doi.org/10.1371/journal.pone.0029908).

(2012) Morgellons Disease: More Questions than Answers. / Comments on: Stricker and Middelveen [Hide Preview Full Text PDF \(87 KB\)](#) / [Hide Preview Full Text PDF \(75 KB\)](#)  
[www.psychosomaticsjournal.org](http://www.psychosomaticsjournal.org) Psychosomatics 53, 5

Middelveen MJ, Burugu D, Poruri A et al. (2013) Association of spirochetal infection with Morgellons disease [v1; ref status: indexed, <http://f1000r.es/8g>] F1000Research 2, 25, doi:10.12688/f1000research.2-25.v1. ISSN 2046-1402.<http://f1000research.com/articles/2-25/v1>  
<http://www.ncbi.nlm.nih.gov/pubmed/24715950>  
[http://cdn.f1000r.com.s3.amazonaws.com/manuscripts/304/83405a39-48a5-4689-9a81-7e3aeea76fee\\_raphael%20stricker.pdf](http://cdn.f1000r.com.s3.amazonaws.com/manuscripts/304/83405a39-48a5-4689-9a81-7e3aeea76fee_raphael%20stricker.pdf)  
**“Based on histological staining, immunofluorescent staining, electron microscopic imaging and**

polymerase chain reaction, we report the detection of *Borrelia spirochetes* in dermatological tissue of four randomly-selected MD patients. The association of MD with spirochetal infection provides evidence that this infection may be a significant factor in the illness and refutes claims that MD lesions are self-inflicted and that people suffering from this disorder are delusional. Molecular characterization of the *Borrelia spirochetes* found in MD patients is warranted”.

Middelveen MJ, Mayne PJ, Kahn DG, Stricker RB (2013) Characterization and evolution of dermal filaments from patients with Morgellons disease. 6, 1 - 21

<http://www.dovepress.com/characterization-and-evolution-of-dermal-filaments-from-patients-with-peer-reviewed-article-CCID>  
<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3544355/>

“We present histological observations and electron microscopic imaging from representative Morgellons disease samples revealing that dermal filaments in these cases are keratin and collagen in composition and result from proliferation and activation of keratinocytes and fibroblasts in the epidermis. Spirochetes were detected in the dermatological specimens from our study patients, providing evidence that Morgellons disease is associated with an infectious process.”

Mayne P, English JS, Kilbane EJ, Burke JM, Middelveen MJ, Stricker RB (2013) **Morgellons: a novel dermatological perspective as the multisystem infective disease borreliosis** [v1; ref status: awaiting peer review, <http://f1000r.es/116>] F1000Research 2, 118 (doi: 10.12688/f1000research.2-118.v1) <http://f1000research.com/articles/2-118/v1>

Finch JJ, Wald J, Ferenczi K, Khalid S, Murphy M. (2014) **Disseminated Lyme Disease Presenting With Nonsexual Acute Genital Ulcers**. JAMA Dermatology. Online before print, 2014 Aug 27. <http://doi.org/10.1001/jamadermatol.2014.1072>

Life Radio (2014) Marianne Middelveen – Looking Into Morgellons Disease  
[http://www.oneradionetwork2.com/mp3/health/challenges/09.02.14\\_middelveen\\_marianne.mp3](http://www.oneradionetwork2.com/mp3/health/challenges/09.02.14_middelveen_marianne.mp3)

Sushan Han S, Mansfield KG (2014) SEVERE HOOV DISEASE IN FREE-RANGING ROOSEVELT ELK (CERVUS ELAPHUS ROOSEVELTI) IN SOUTHWESTERN WASHINGTON, USA. Journal of Wildlife Diseases: 50(2), 259-270. doi: <http://dx.doi.org/10.7589/2013-07-163> <http://jwildlifedis.org/doi/abs/10.7589/2013-07-163>

Middelveen MJ, Bandoski Ch, Burke J et al. (2015) **Exploring the association between Morgellons disease and Lyme disease : identification of Borrelia burgdorferi in Morgellons disease patients**. BioMed Central Dermatology 15(1) doi:10.1186/s12895-015-0023-0. ISSN 1471-5945. <http://www.biomedcentral.com/1471-5945/15/1/abstract>  
<http://www.biomedcentral.com/content/pdf/s12895-015-0023-0.pdf>  
<http://bmcdematol.biomedcentral.com/articles/10.1186/s12895-015-0023-0>

Walker R (2015) **Mystery Of Morgellons - Disease Or Delusion - Scientific Hypothesis Of Connection With Lyme Disease**. Science 2.0 (<http://www.science20.com>)  
[http://www.science20.com/robert\\_inventor/mystery\\_of\\_morgellons\\_disease\\_or\\_delusion\\_scientific\\_hypothesis\\_of\\_connection\\_with\\_lyme\\_disease-155742](http://www.science20.com/robert_inventor/mystery_of_morgellons_disease_or_delusion_scientific_hypothesis_of_connection_with_lyme_disease-155742)

Wymore, PhD, Randy S et al. (2015) **The Investigation Of The Microbial And Molecular Analysis Of Morgellons Epithelial Tissue Samples**. Poster Presentation. Retrieved 12 June 2016, from <http://www.thecehf.org/resources/OSU%202015%20Research.pdf>

Shah, PhD, Jyotsna S (2016) Morgellons Disease – Chronic Form Of Borrelia Infection? Presentation. Retrieved 12 June 2016, from <http://www.thecehf.org/jyotsna-s-shahphd.html>

Middelveen MJ, Stricker RB (2016) **Morgellons disease: a filamentous borrelial dermatitis**. [International Journal of General Medicine » Volume 9](http://www.dovepress.com/morgellons-disease-a-filamentous-borrelial-dermatitis-peer-reviewed-fulltext-article-IJGM) DOI <https://dx.doi.org/10.2147/IJGM.S116608> <https://www.dovepress.com/morgellons-disease-a-filamentous-borrelial-dermatitis-peer-reviewed-fulltext-article-IJGM>

Middelveen MJ, Rotaru GM, McMurray JL, Filush KR, Sapi E, et al. (2016) **Canine Filamentous Dermatitis Associated with Borrelia Infection**. J Vet Sci Med Diagn 5, 6. doi: 10.4172/2325-9590.1000217 [http://www.scitechnol.com/peer-review/canine-filamentous-dermatitisassociated-with-borrelia-infection-1Qxf.php?article\\_id=5548](http://www.scitechnol.com/peer-review/canine-filamentous-dermatitisassociated-with-borrelia-infection-1Qxf.php?article_id=5548)

Savely G (2016) **Morgellons: The legitimization of a disease: A Factual Guide by the World's Leading Clinical Expert**. ISBN-10: 0997920025 ISBN-13: 978-0997920024

(2016) **Skin Deep: The Battle Over Morgellons Sample Reel**.  
<https://vimeo.com/165349351> [www.MorgellonsMovie.org](http://www.MorgellonsMovie.org)

Middelveen MJ, Fesler MC, [Stricker RB](#) (2017) **History of Morgellons disease: from delusion to definition**. [Clinical, Cosmetic and Investigational Dermatology 11](#), 71-90  
[https://www.dovepress.com/articles.php?article\\_id=36744](https://www.dovepress.com/articles.php?article_id=36744)

➔ **Chronic Inflammatory Disorders. Multisystem diseases caused by pathogens**  
[http://www.kabilahsystems.de/ko-erreg\\_eupd1.pdf](http://www.kabilahsystems.de/ko-erreg_eupd1.pdf)

[Bernt - Dieter Huismans](#), Letzte Revision Februar 2018 [www.Huismans.click](http://www.Huismans.click)  
Back to top <http://www.erlebnishaft.de/morgellonsdisease.pdf>

