Bee Venom Therapy (BVT) for Chronic Lyme Disease

Dietrich D. Klinghardt MD, PhD

LYME BORRELIOSIS:



LYME BORRELIOSIS: HISTORY



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First U.S. outbreak reported in Lyme, Connecticut in 1975



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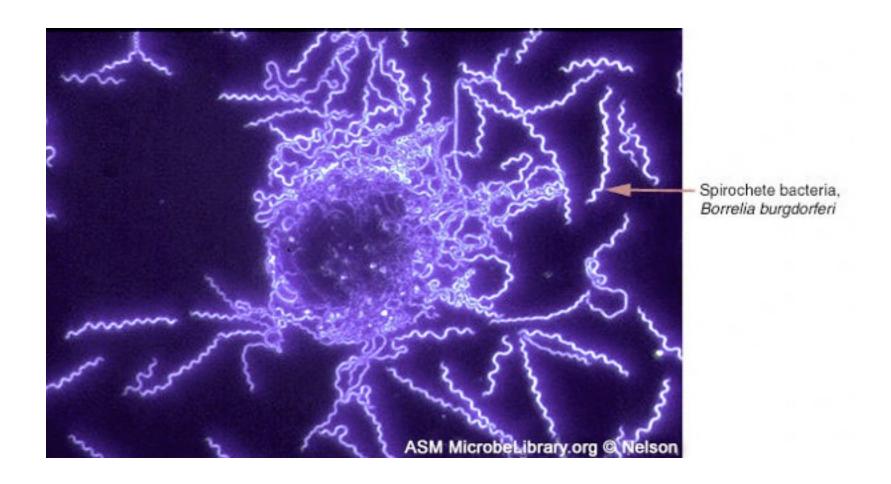
First U.S. outbreak reported in Lyme, Connecticut in 1975



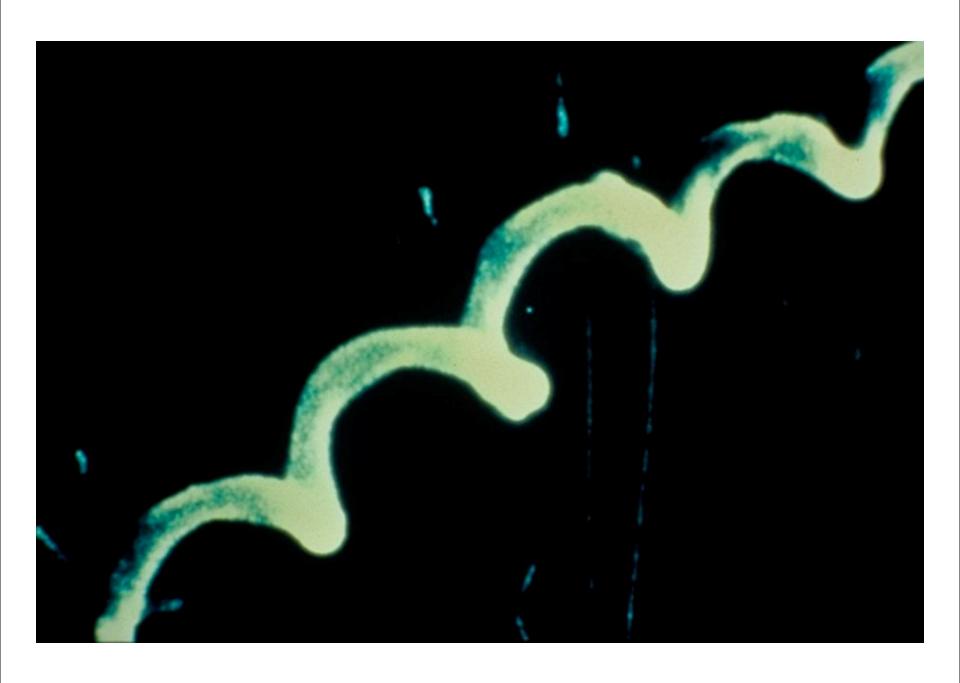
1982, Willy Burgdorfer identifies the etiological agent, a Borrelia spirochete



Sunday, 12 September 2010



Morphology of Borrelia burgdorferi. Dark field image © Jeffrey Nelson, Rush University, Chicago, Illinois and <u>The MicrobeLibrary</u>



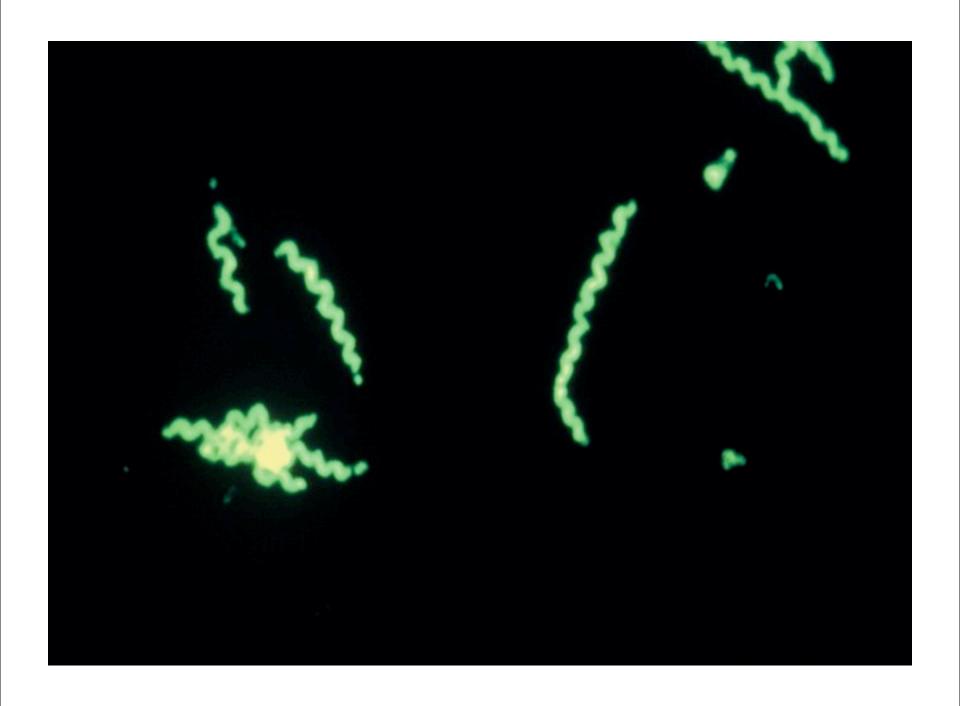
Symptoms of Lyme Disease are non-specific

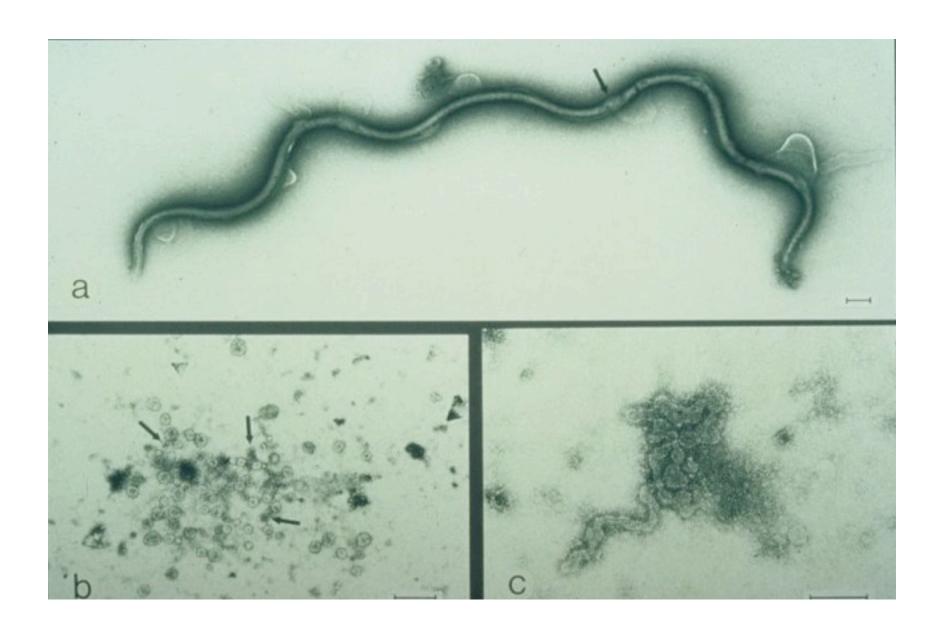
- Fatigue and/or insomnia
- Lack of zest, blunting of the senses
- short-term memory loss
- Fibromyalgia and any/or type of pain condition
- Multiple chemical sensitivity, food allergies, electro-sensitivity
- Immune deficiency and hyper immunity/autoimmunity
- Strange neurological symptoms (buzzing, fasziculations, tinnitus)
- eye floaters , dry/wet macula degeneration
- Recurrent relationship problems, poor decision making in business
- Low grade depression to severe psychiatric presentations
- GERD and all other digestive disorders
- Low exercise tolerance
- Cardiac dysrhythmia, angina, diastolic filling defect
- Inability to detoxify (i.e.mercury or lead toxicity)
- induced HPU
- Premature aging
- Oxidative stress
- Neuronal death from potent biotoxins and self-generated peroxynitrite

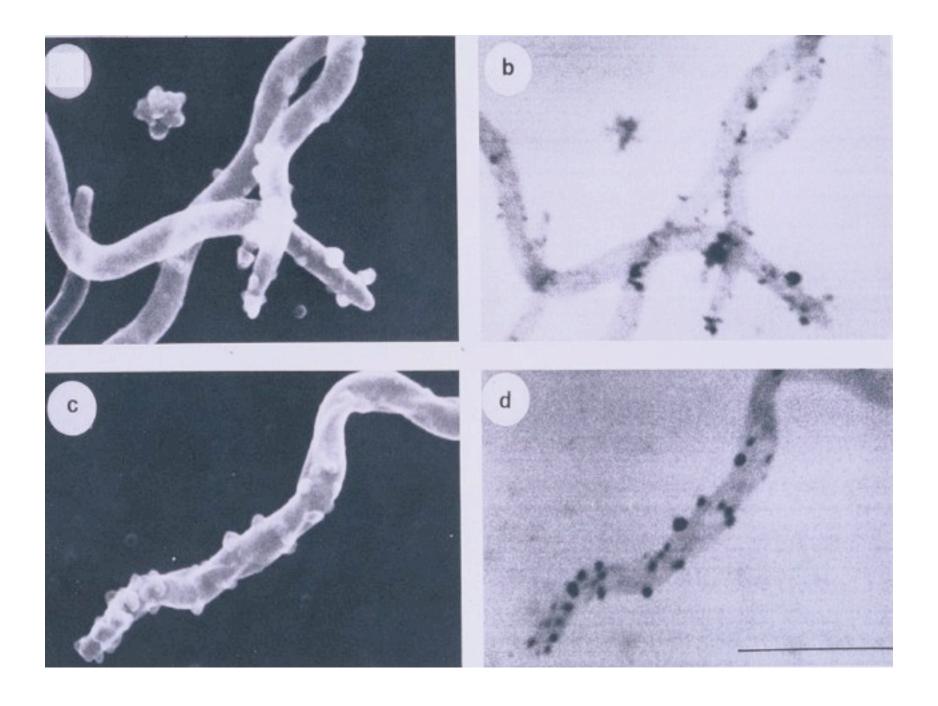
What can the clinical state of the infection mimic?

- Schizoaffective disorder
- Multiple sclerosis
- Amylotrophic lateral sclerosis
- Alzheimers disease
- Parkinsons Disease
- Thyroid disease
- Hyperparathyroidism
- Hyperlipedemia
- Coagulation disorder
- Insulin resistence

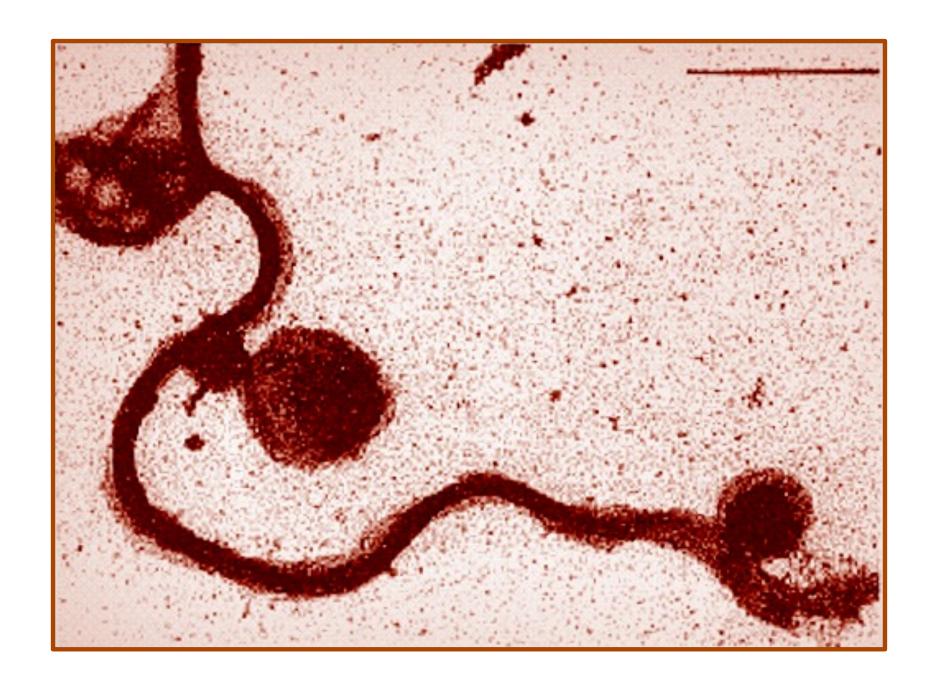
- Lupus
- Rheumatoid arthritis
- Polmyalgia rheumatica
- osteoarthritis
- CFIDS
- Fibromyalgia
- Multiple Chemical Sensitivity
- Bipolar disorder
- Hypoadrenia and Addisons disease

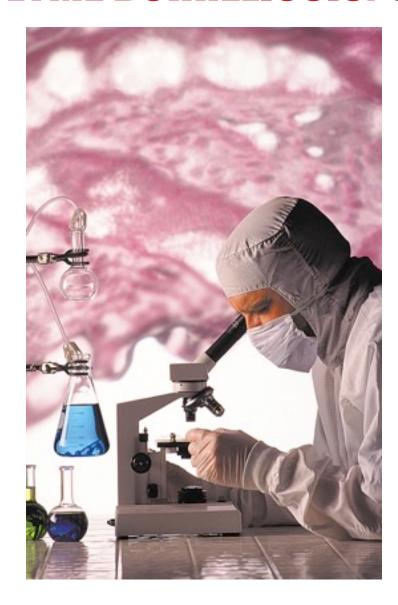


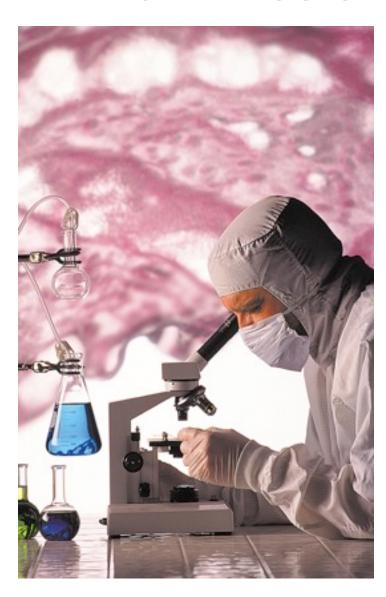




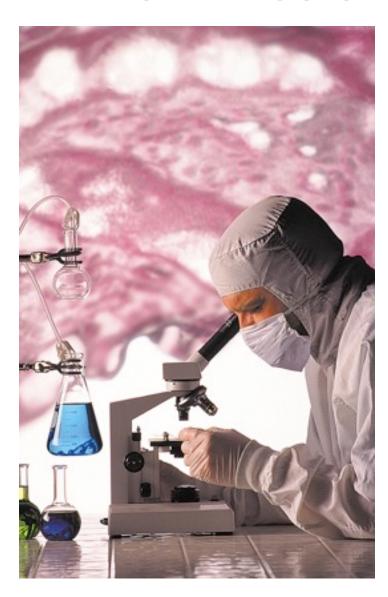
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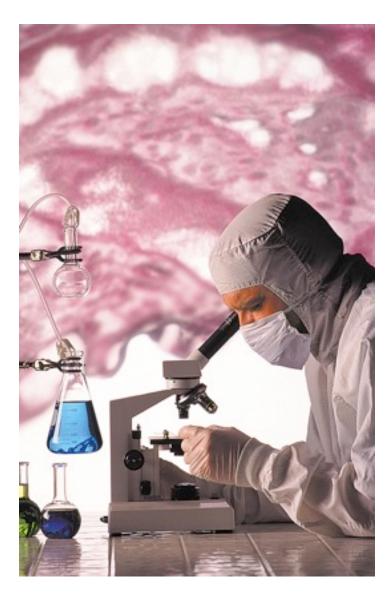




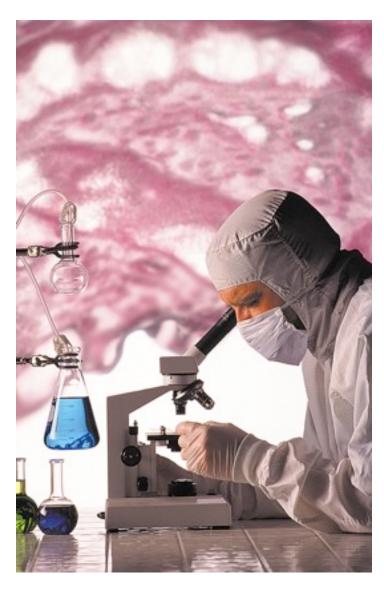
 Mosquitos, fleas, stinging flies (horse flies), spider bites



- Mosquitos, fleas, stinging flies (horse flies), spider bites
- ticks



- Mosquitos, fleas, stinging flies (horse flies), spider bites
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- Blood transfusions



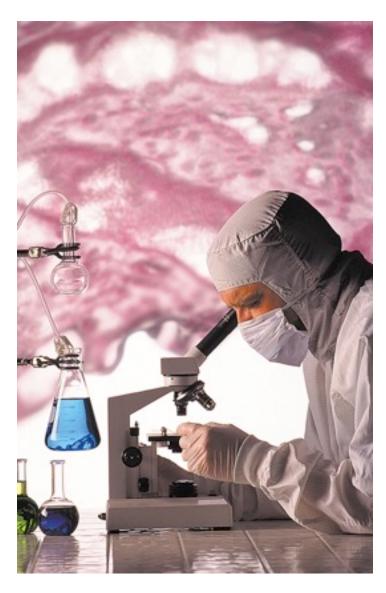
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- Sexual intercourse



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- ticks
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- Breast feeding
- Food
- Saliva (kissing), contaminated utensils and telephones





Lyme is a spirochetal illness resembling syphilis.

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Can mimic MS, myelopathy, polyneuropathy, brain tumor, encephalopathy.

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(Neurosurgery.1992May;30(5):769-73)

Can cause meningitis, encephalitis, neuritis,mania, depression, OCD, schizophrenia, anorexia, dementia. (Am J Psychiatry: 1994 Nov;151(11):1571-83)



90% of chronic fatigue patients are Lyme positive.

(Informal study by American Lyme Disease Alliance at www.lymealliance.org)

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Borrelia can cause Parkinsonism

(Arch.of Path.& Lab.Med.127(9):1204-6)



Borrelia is found in the CSF of most MS & ALS patients (Communications from Jo Anne Whitaker, M.D. and Lida Mattman, M.D.)

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Many patients with arthritis have Lyme but only 24% of Lyme patients have arthritis

(Z Rheumatol.2003 Oct;62(5):450-8)

Borrelia may cause sarcoidosis

(Chin Med J.1992 Jul; 105(7):560-3)



LYME BORRELIOSIS: GREAT IMITATOR

Lyme can cause cardiomyopathy, CHF, perimyocarditis, cardiac arrhythmias, AV block and other conduction disturbances.

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(Eur Heart J. 1991 Aug; 12 Suppl D:73-5)

Fetal borrelia can cause fetal death, growth retardation, cardiac anomolies, hydrocephalus, blindness, neonatal resp. distress, SIDS and toxemic pregnancy.

(Rheum Dis Clin North Am.1989 Nov;15(4):657-77)







Stage I
Flu-like symptoms & 25% have "bull's eye" rash (Antibiotics effective at this stage)

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Stage 3 (often after many years of milder illness)

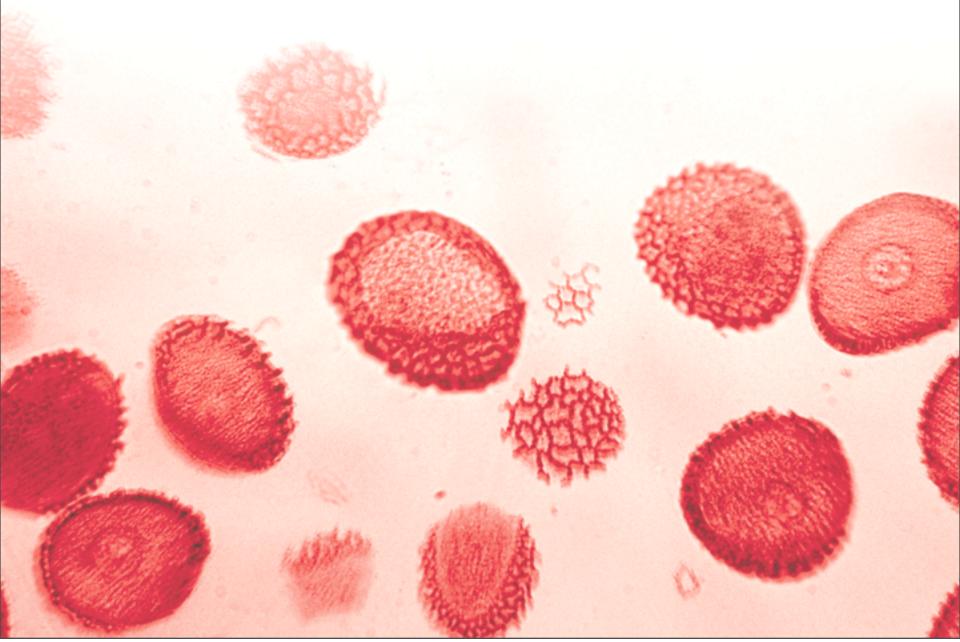
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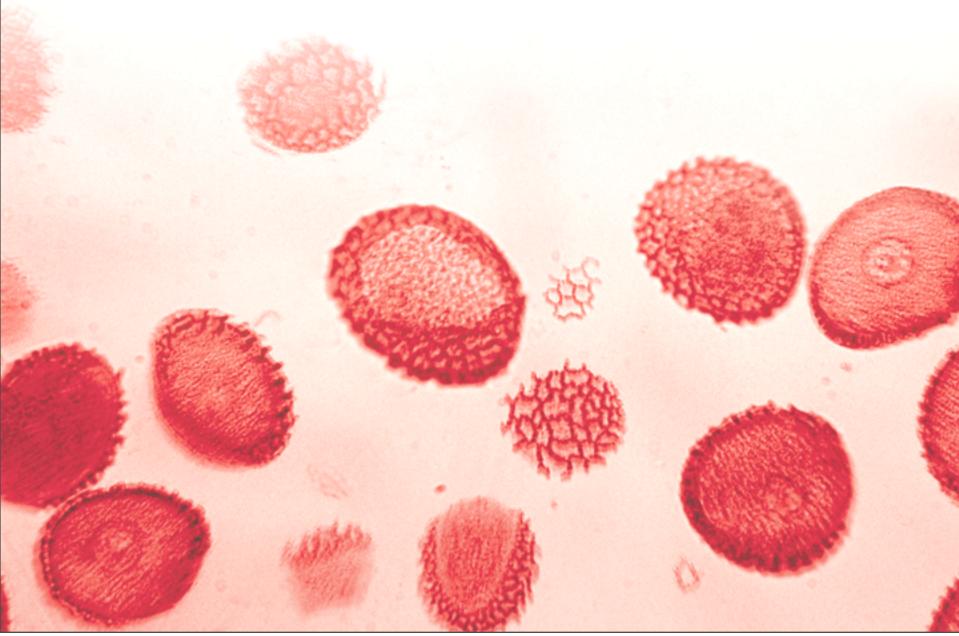
Stage 2 (often after many near-asymptomatic years) Muscle aches, fatigue, joint pain, "migratory arthritis", meningitis, loss of appetite

Stage 3 (often after many years of milder illness)
Severe chronic neurological symptoms,
profound fatigue, memory loss, severe pain,
depression, psychosis, etc.

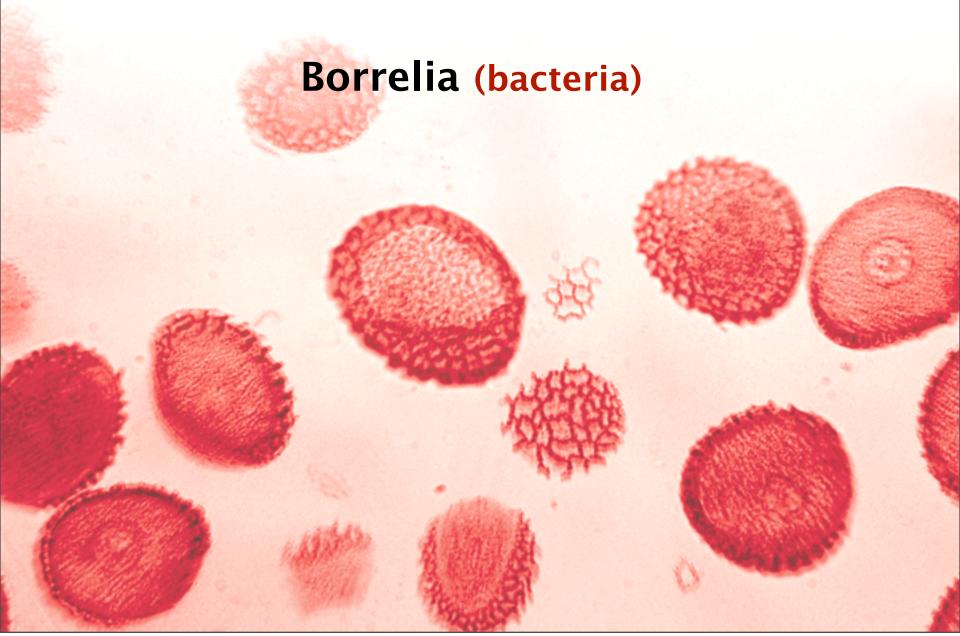
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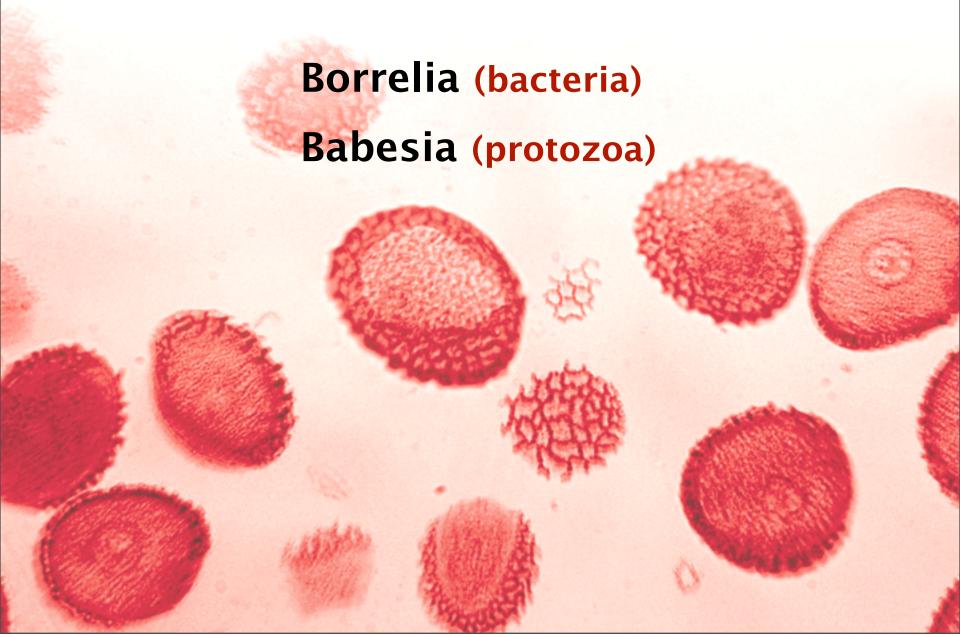


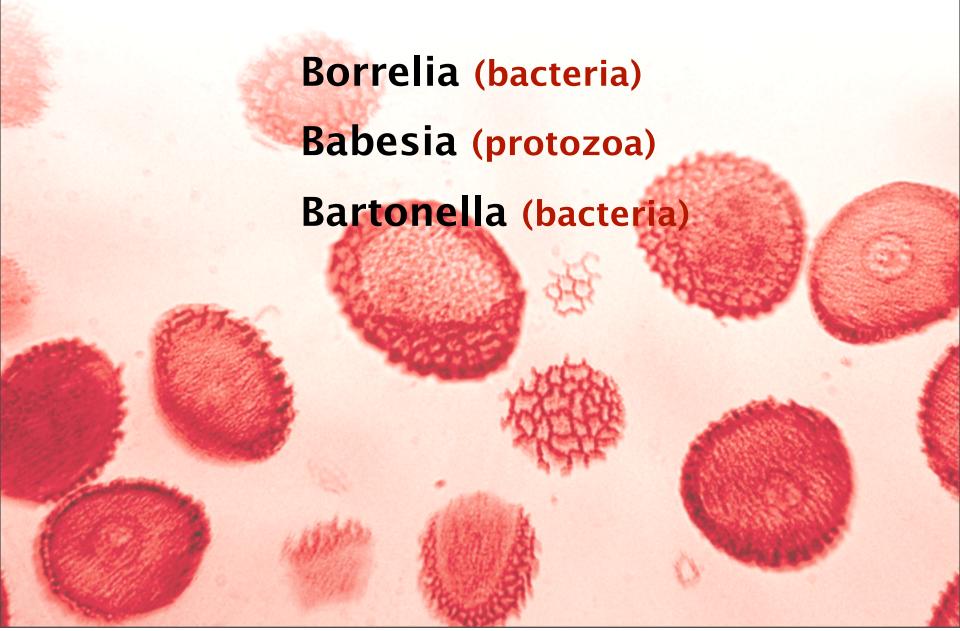
Sunday, 12 September 2010

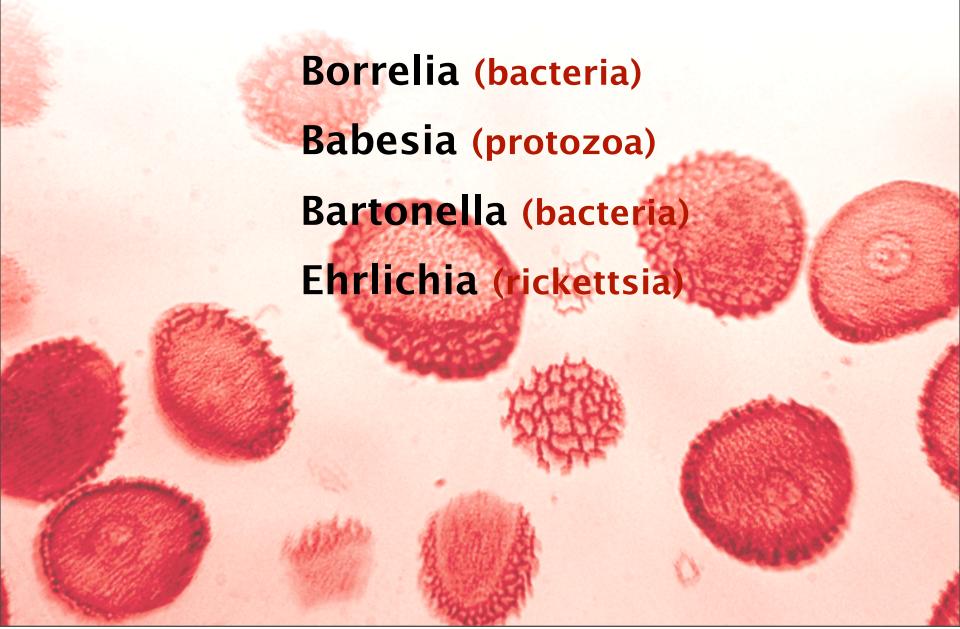


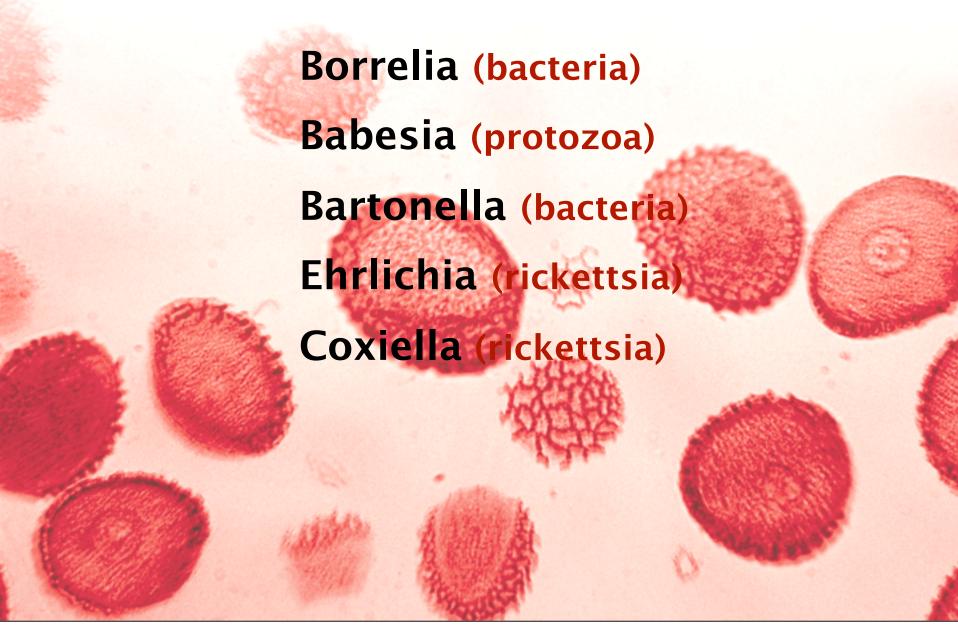
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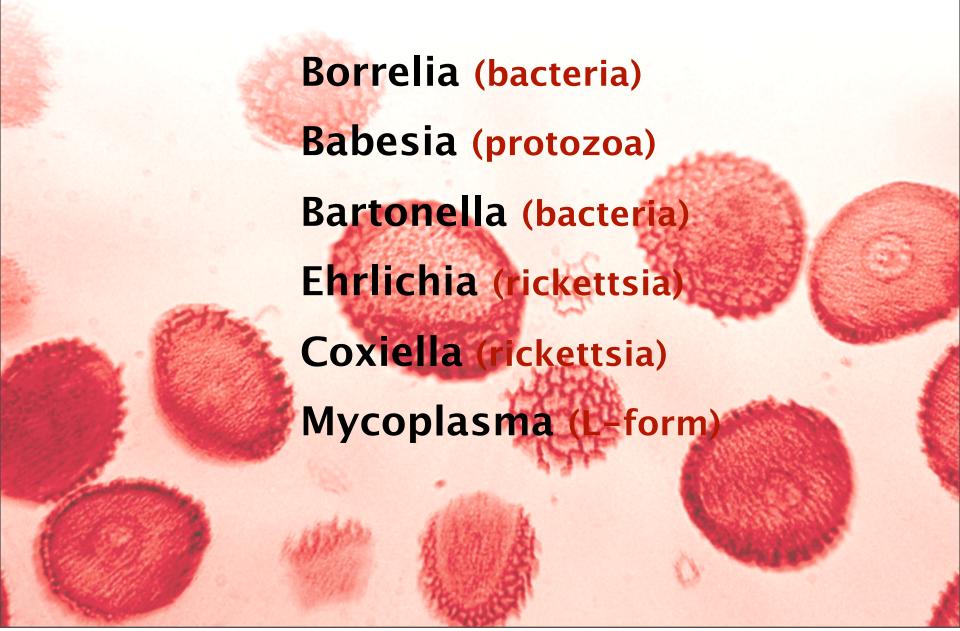












Borrelia (bacteria) Babesia (protozoa) Bartonella (bacteria) Ehrlichia (rickettsia) Coxiella (rickettsia) Mycoplasma (L-form) Viruses (HHV-6,CMV,EBV, Borna, XMR\

LYME BORRELIOSIS:





Years can pass before symptoms appear in a patient that has been infected



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All asymptomatic carriers of Borrelia are at risk of developing symptomatic Lyme borreliosis

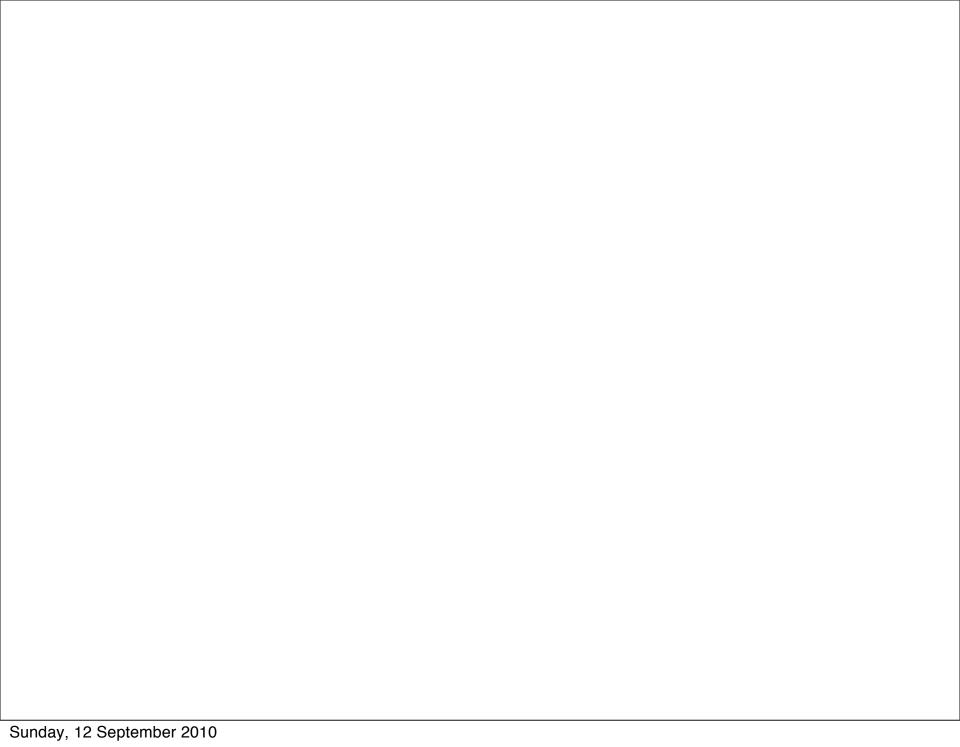


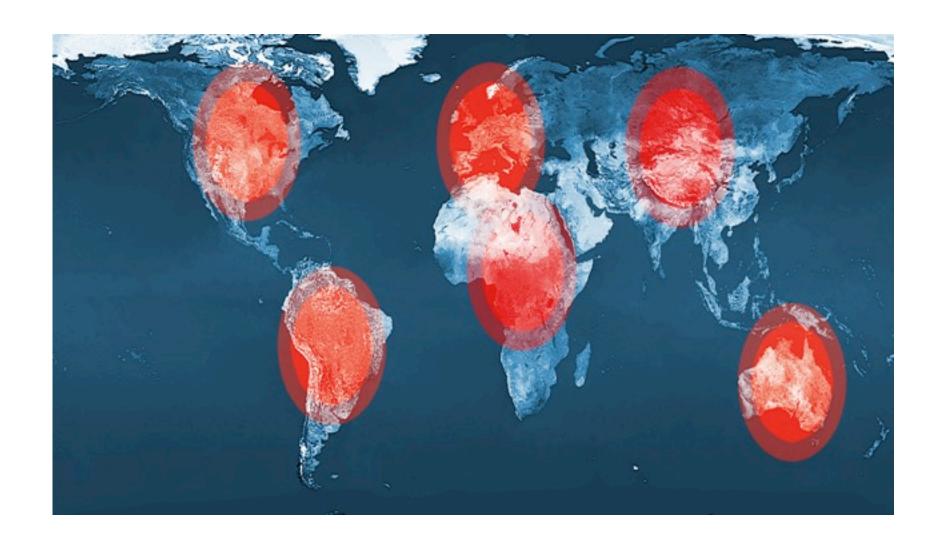
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All asymptomatic carriers of Borrelia are at risk of developing symptomatic Lyme borreliosis

Immune suppression by stress may cause activation







Dr. Andrew Wright, medical researcher in the United Kingdom, believes that the majority of chronic conditions are Lyme related.

Differential Diagnosis

Heavy metal toxicity

Environmental illness (toxicity and allergy)

Mold / Mycotoxin exposure

Lyme disease, co- infection or other infection

Making the diagnosis

- Direct microscopy (www.Bowen.org, www.BradfordResearchInst.org)
- Detection of antibodies (ELISA, Western Blot)
- Lymphocyte proliferation tests (MELISA and LTT)
- CD 57 Stricker panel
- Symptoms and history
- Neurological/physical findings
- ART testing (<u>www.neuraltherapy.com</u>, www.INK.ag)
- Indirect tests (FACT, different lab parameters)
- History of an insect bite

Three pathogenic types of Borrelia spirochetes – all respond differently to anti-microbials

- Borrelia garinii
- Borrelia afzelii
- Borrelia burgdorferi (Bb)

Borrelia burgdorferi group: in-vitro antibiotic sensitivity: Orv Hetil, 2002 May 26; 143 (21): 1195-8 (article in Hungarian), JP Henneberg, U Neubert –department of dermatology, Ludwig-Maximillian University, Munich, Germany

Patient Name:

Klinghardt, Dietrich

Report Number: 175
Blood Drawn: 12/2
Date Reported: 1/14

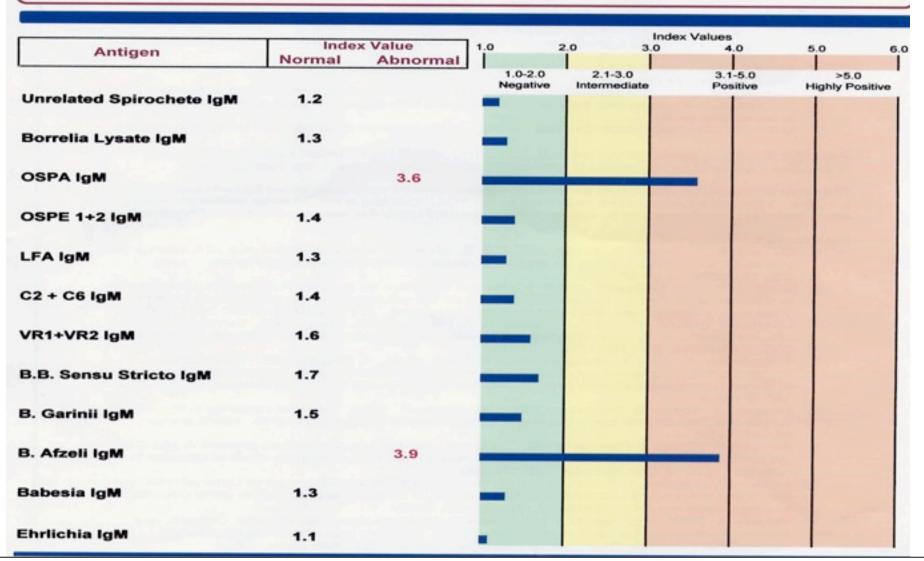
175056 12/21/2004 1/14/2005 Clinic:

Klinghardt, Dietrich

1200-112th Avenue, NE, Suite a-100 Bellevue WA 98104

USA

IgM Antibodies to Borrelia burgdorferi and Cross Reactive Antigens:



Tel: 310-657-1077 Fax: 310-657-1053

Patient Name:

Klinghardt, Dietrich

Report Number: 175056 Blood Drawn: 12/21/2004 Date Reported: 1/14/2005 Clinic:

Klinghardt, Dietrich 1200-112th Avenue, NE, Suite a-100

Bellevue WA 98104

USA

IgG Antibodies to Borrelia burgdorferi and Cross Reactive Antigens:

Antigen	Index Value		1.0	2.0 3.0	ex Values 4.0	5.0	6.6
	Normal	Abnormal				1	
Unrelated Spirochete IgM	1.1		1.0-2.0 Negative	2.1-3.0 Intermediate	3.1-5.0 Positive	>5.0 Highly Po	
Borrelia Lysate IgM	1.6						
OSPA IgM	1.5		-				
OSPE 1+2 IgM	1.2		-				
LFA IgM	1.1						
C2 + C6 IgM	1.2		-				
VR1+VR2 IgM	1.5		_				
B.B. Sensu Stricto IgM	1.8						- 1
B. Garinii IgM	1.6						
B. Afzeli IgM	1.8		_				
Babesia IgM	1.5		_				
Ehrlichia IgM	1.2						

PAGE:

PATIENT: KELLY, ROBERT DOB: 01/01/29 SEX: M

SAMPLE ID: 101685

DRWN: 12/12/02

DIETRICH KLINGHARDT, MD

RCVD: 12/16/02 PRNT: 12/20/02 DIRECTOR: BOYD G. STEPHENS, M.

1200 112TH AV NE STE A100 BELLVUE. WA 98004

TEST NAME RESULT UNITS

LYME IGG WESTERN BLOT

The IgG WB is considered positive if two of the starred bands are present: 23-25, 31, 34, 39, 41, 93 kDa.

The IgG WB is considered equivocal if one of these bands are present: 23-25, 31, 34, 39, 93 kDa.

41 kDg, by itself, is negative. *** REVISED 9/16/99

ASTPHLD/CDC recommendation: An IgG WB is positive if five of these bands are present: 18, 23-25, 28, 30, 39, 41, 45, 58, 66, 93kDa. New York State Department of Health considers Western Blots positive that conform to the ASTPHLD/CDC criteria.

BAND INTENSITY: Low +, Medium ++, High +++, Equiv +/-

LYME IGG WESTERN BLOT POSITIVE 18 kDa

> 22 kDa * *23-25 kDa ++ Z8 kDa ++ 30 kDa ++ **31 kDa * * 34 kDa 37 kDa * * 39 kDa +/-**41 kDa +++ 45 kDa 58 kDa +/-66 kDa +/-73 kDa 83 kDa * * 93 kDa

PATIENT: KELLY, MARIA DOB: 04/20/42 SEX: F

SAMPLE ID: 103704

DIETRICH KLINGHARDT, MD

1200 112TH AV NE STE A100

BELLVUE, WA 98004

DRWN: 00/00/00 RCVD: 01/31/03 PRNT: 02/18/03

DIRECTOR: BOYD G. STEPHENS, M.

LYME IGM WESTERN BLOT

The IgM WB is considered positive for the presence of AB to B. burgdorferi if two of the starred bands are present: 23-25, 31, 34, 39, 41 kDa.

The IgM WB is considered equivocal if one of the starred bands is present.

ASTPHLD/CDC Recommendations: An IgM WB is positive if two of these bands are present: 23-25, 39, 41 kDa. New York State Department of Health considers Western Blots positive that conform to the ASTPHLD/CDC criteria.

POSITIVE

BAND INTENSITY: Low +, Medium ++, High +++, Equiv +/-

LYME IGM WESTERN BLOT

18 kDa. 22 kDa. **23-25 kDa. 28 kDa. 30 kDa. **31 kDa. **34 kDa. 37 kDa. **39 kDa. **41 kDa. 45 kDa. 58 kDa. 66 kDa. 73 kDa. 83 kDa.

Continued on next page

93 kDa.

Dia int

ratory tests alone. Results should be cal symptoms and patient history.

The Diagnostic Paradoxes

First You Have to Treat,
 Then You Can Make the Diagnosis

The cells of the immune system responsible for making antibodies are sick and cannot produce antibodies. The Western Blot becomes positive, as soon as an effective treatment has been given – not before.

The Diagnostic Paradoxes

 Making the diagnosis dependent on the history of a tick bite represents poor logic: 22% of horse flies, deer flies and mosquitoes are infected with Borrelia and co-infections in endemic areas

The etiologic agent of Lyme disease in deer flies, horse flies and mosquitoes, J Infect Dis 154 (1986), 355-358, LA Magnarelli, JF Anderson, AG Barbour, Klinik der Lyme-Borreliose: Hans Huber Verlag, Bern, CH (2002). 39-40, Norbert Satz

- Spirochetes can assume a cystic form which can lay dormant in tissues and escape detection from any of the above diagnostic methods
 - Lyme disease, potential plague of the 21st century: R Bradford and H Allen, Townsend Letter for Doctors and Patients, Jan 2005, 70-79

Helpful Tips From the Laboratory

- Abnormal lipid profile (moderate cholesterol elevation with significant LDL elevation), elevated triglycerides (=early response) or very low triglycerides (late response)
- Insulin resistance
- Borderline low wbc (3000- 5000), normal SED rate and CRP
- Low-normal thryroid hormone tests but positive Barnes test and excellent response to giving T3
- Adrenal failure or weakness (high cortisol in early stage, low cortisol, DHEA and testosterone in late stage Lyme)
- Low alkaline phosphatase (indicating low zinc levels, usually from lyme associated HPU)
- Decreased urine concentration (low specific gravity)

HPU: HemoPyrrolLactamUria

found in 80% of Lyme patients

The co-founder (with Linus Pauling) of Orthomolecular Medicine, Abram Hoffer MD discovered this condition in 1958. In the urine of his schizophrenic patients he discovered a compound he named "Mauve factor", later falsely identified as kryptopyrrol, and finally correctly identified as hydroxy-hemopyrrolin-2-one (HPL or HemoPyrrolLactam).

Other names used in the literature: Malvaria, Pyrroluria, KryptoPyrrolUria, Mauve, HemoKryptoLactamUria

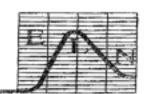
To keep things in line with the literature, we refer to this condition as HPU

In every patient with a suspected diagnosis of Lyme-Borreliosis or coinfection, HPU should be ruled out and/or treated before proceeding with any anti-microbial strategy

HPU is a frequent co-factor in patients with:

- 1. Lyme disease (microbes induce HPU enzymes to deplete white cells of zinc and weaken their fighting abilities)
- 2. heavy metal toxicity (detox pathways are overwhelmed and ineffective, lack of glutathione)
- 3. Many -if not most neurological illnesses (common in MS, Parkinson, Depression, Autism)

When HPU is correctly diagnosed and the recommended substitution of supplements is included in the treatment of any chronic illness, outcome can be dramatically improved



EUROPEES LABORATORIUM VOOR NUTRIENTEN EUROPEAN LABORATORY OF NUTRIENTS

VITAMIN

Regulierenting 9, 3981 LA Bannik Posibus 10, 3980 CA Bunnik The Notherlands

Tel.:31-(0)30-2871492 Pex:31-(0)30-2802688

DIAGNOSTICS, Inc. Rt.35 & Industrial Drive Cliffwood Beach, NJ 07735 Phone (732) 583-7773 Fax (732) 583-7774

Reportdate 16/01/2009

Name DOB

03/10/1963

Sex

Female

Dietrich Klinghardt Md

11656 98th Ave NE 98034 KIRKLAND, WA

Patient no 79447 Through

: VITAMIN DIAGNOSTICS

: VITAMIN DIAGNOSTICS

Applicant Date received

Labno Date received 1st printdate

KLINGHAR 31/12/2008

312835 31/12/2008

16/01/09 = (1)==

14240

Ref. range

Units

Hematologie Your reference:

Urine analysis Kryptopyrrol

67.0* < 1.5 μg/dl

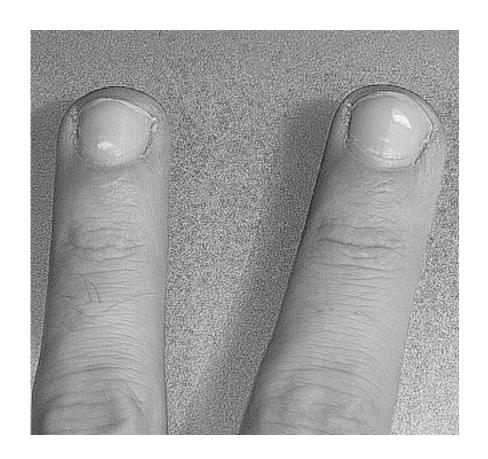
PC Scheduled 1/21/09 SH

Performed at ELN *)outside ref.range

HPU patients loose supra-physiological amounts of zinc, B6 and manganese in the urine

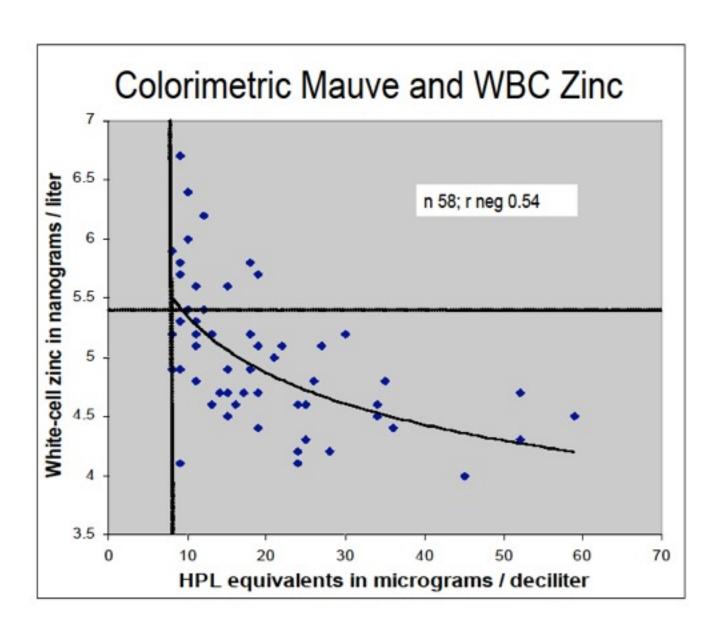
- HPU is caused by the defect of several of the 8 enzymes needed for the synthesis of heme
- Heme is needed for liver detox reactions (cytochromes),
 Cystathionine synthase, Catalase, Heme-hemopexin for MT translation, Guanylate cyclase, Sulfite- reductase, NOS, Pyrrolase.
- HPU patients have low serum glutathion levels, high NO levels, low histamine
- HPU can be inherited or can be aquired (trauma, stress, toxins, infections)
- Hoffer: 27/39 early schizophrenics positive
 10/14 criminal / patients with deviant behavior positive
 740 patients: all recovered schizophrenics negative, unrecovered 50% positive
- Down syndrome 70%, Schizophrenia 70%, Autism 76%, Rett 90%, ADHD 60%, Alcohol abuse and all other addictions: 80%, anorexia: 88%
- Lyme disease and co-infections: 80% positive (Klinghardt)
- Toxic Patients with mercury and lead retention: 75% (Klinghardt)
- HPU treatment dramatically improves the outcome of bee venom therapy

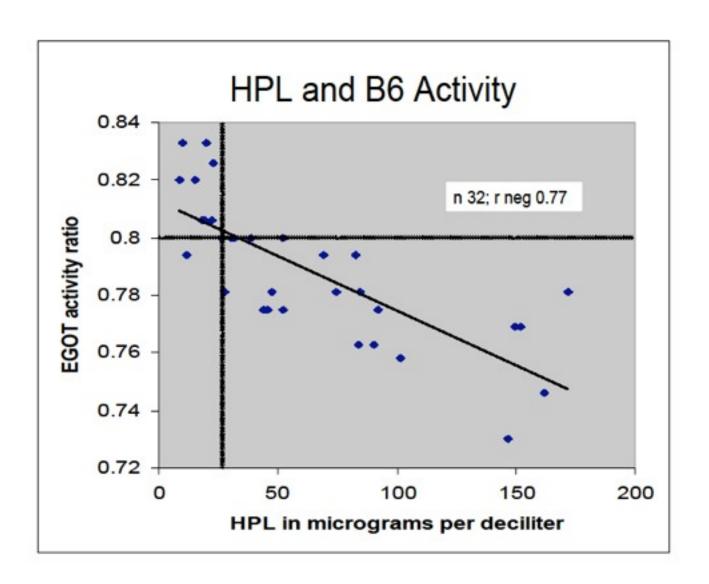
Leukodynia

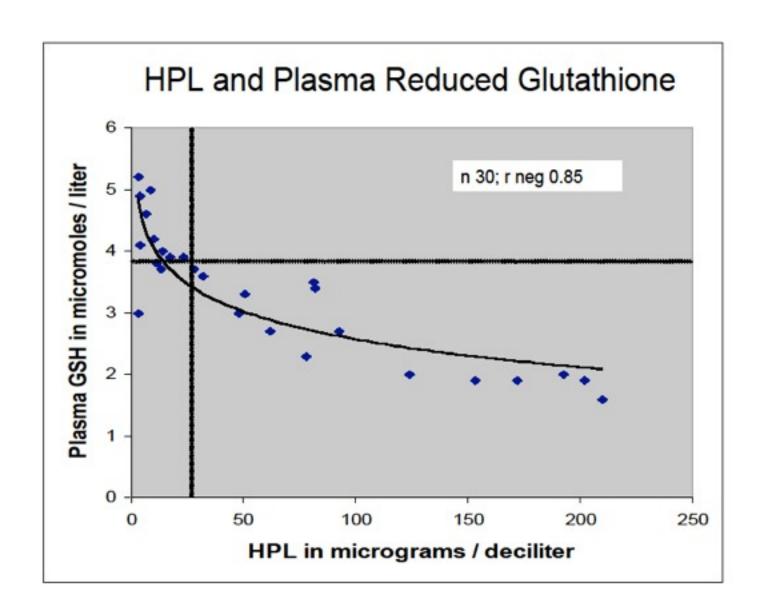


Discerning the Mauve Factor, Part 1 and 2 <u>Audhya, Tapan et al</u>, 1: Altern Ther Health Med. 2008 Mar-Apr;14(2):40-50

- In cohorts with mixed diagnoses, 24-hour urinary HPL correlated negatively with vitamin **B6** activity and zinc concentration in red cells (P < .0001)
- Above-normal HPL excretion corresponded to subnormal vitamin B6 activity and subnormal zinc with remarkable consistency
- HPL correlated inversely with plasma glutathione and red-cell catalase, and correlated directly with plasma nitric oxide (P < .0001)
- HPL is a valuable biomarker for oxidative stress
- HPL is known to cause heme depression, which lowers zinc, increases nitric oxide, and increases oxidative stress
- Administration of prednisone reportedly provoked HPL excretion in animals (model for **stress**)
- KPU causes **leaky gut** syndrome: urinary HPL examined in relationship to urinary indicans, presumptive marker for intestinal permeability. Urinary HPL associated with higher levels of indicans (P < .0001)







Diagnosis

- High level of suspicion
- Diagnosis of Lyme disease, CFIDS, FMS, heavy metal toxicity
- 24-hr urine test for HPU (US: Vitamin Diagnostics, UK: BioLab, Europe: www.KEAC.NL).
- US and UK: Use cleaned large orange or milk juice-carton for collection (then filling the transport tube). Add 500 mg of ascorbic acid per liter of urine to stabilize pyrrols. Wrap aluminum foil around collection-container and transport-tube to prevent light induced pyrrol breakdown. Keep in fridge at all times (half life of pyrrols is 8 hours). Freeze transport tube briefly to facilitate the breakdown of undetectable tera-pyrrols to detectable monopyrrols. Send without delay with fastest method possible, Monday -Wednesday only. Alert the lab for immediate processing upon arrival
- Preparation for the test:
- Do not take vitamins (especially B's and minerals) 5 days prior to test
- Exposure to normal daily stresses is needed (no stressavoidance or rest)

Treatment

Minerals:

zinc 25-50 mg elemental zinc (=6 times this amount as gluconate, piccolinate or citrate), manganese 10 -20 mg, molybdenum 500 mcg, magnesium glycinate: 600 mg

Oils:

Arachidonic acid from Omega-6 oils: butter and cream, evening primrose, ghee, borage oil, black current oil, coconut oil

Vitamins:

Pyridoxal-5-Phosphate: 50 mg, B 6 (Pyridoxine HCL): 25 mg

Biotin: 10 000 /day

Niacinamide 1000 mg tid

Aminoacids: Taurine 500 mg tid before meals (Bile activation for neurotoxin elimination, and brain metabolism)

Other considerations:

Zinc depletes copper levels. Some patients are or become copper deficient.

There is much misinformation regarding copper in the current nutritional teachings. Beware. Monitor with red cell mineral test and replace if indicated (3-6 mg/day) Always have metal- detox agents on board (Chlorella, MicroSilica, Phospholipic Exchange)

Combination products:

"Core" from BioPure (INK, Freiburg): initial phase: 6 cpas with main meal, later: 4 caps/day maintainance

The treatment of Lyme disease requires 4 distinctive steps:

- 1. Improving normal physiology
 - a. diagnose and treat HPU
 - b. eliminate allergenic foods (Coca pulse test or ART)
 - c. No foods heated above 100 C (no bread, cookies, fried food, baked food)
 - d. Charles Mraz adrenal cocktail: Vit B6 (part of HPU already), Vit B5 500 mg twice daily and Vit C (in cocktail already)
 - e. Increase androgens with gelee royale
- 2. Decreasing toxic body burden/unloading the system
 - a. Chlorella 15-20 tbl 3 times per day 20 min before meals
 - b. MicroSilica 100 mcg 1-2 times per day in juice
 - c. Bee pollen (in cocktail already provides needed aminoacids)
- 3. Decreasing microbial count
 - a. Lyme/Babesia/Bartonella cocktail
 - b. bee venom therapy (in conjunction with other apitherapy products)
- 4. Immunemodulation
 - a. Bee venom therapy
 - b. propolis (already in cocktail)
 - c. auto-urine therapy

The Klinghardt Lyme Cocktail

Ingredients per dose:

- 1 glass ½ water, ½ organic grapefruit juice, 1 tablespoon Phospholipid Exchange (PLE BioPure/INK), 200-400 mg Artemisinin (source: internet), 20 drops propolis tincture 20%, 500 mg B5 as powder (open a capsule), 1000 mg ascorbic acid (Vit C), 1 heaping tsp bee-pollen, 20 drops Rizol Gamma (source: BioPure/INK), 100 mcg MicroSilica (BioPure), Quintessence 5 dropperfull and Rizol Gamma 15 drops (BioPure), 1 tsp local honey, 1-2 tbsp Rechtsregulat (BioPure)
- Use regular blender at high speed. Start with a little water just covering the blade of the blender, add the whole amount of PLE and Artemisinin. This creates over 5 minutes or so a liposomal artemisinin, the worlds most powerful antimicrobial for Babesia, Bartonella and many aspects of Lyme. Wait till this mix turns from watery to gel-like. Only then add the other ingredients.
- The MicroSilica (MS) is a powerful toxin binding and removal agent that binds to sulfhydryl affinitive metals and microbial biotoxins. Do not give minerals at the same time, since they would be bound up by MS. The HPU minerals should be given with a meal, away from the cocktail.
- The cocktail is given twice daily, 5 days on, 2 days off for many months. It may decrease iron levels, which should be monitored.

Apitherapy as potent adjuvant

- Propolis is neuroprotective and anti-viral, anti-microbial(1)
- Gelee Royale restores normal hormonal levels, especially Lyme depleted androgen levels
- Honey antidotes the collagen—destructive effect of the lyme biotoxins (2) and its oxidative nerve- and joint damage (3)
- Bee venom therapy is ancient and safe
- Bee venom is effective in improving multiple aspects and symptoms of chronic Lyme disease (4)
- Bee venom therapy is easy to learn and master
- Bee venom therapy is natural and allows the patient autonomy
- Bee venom composition has been analyzed completely (4):
 - mellitin is an effective anti-microbial against the Lyme spirochete (5) (6)
 - Apamin and octopamin antidote the neurotransmitter blockages (L-DOPA depletion) induced by the lyme neurotoxins
 - Hyaluronidase and phospholipase dissolve microbial biofilm

(1)Propolis, neuroprotection and anti-microbial effects

Propolis Protects Against Nerve Cell Death

Protective Effects of Chinese Propolis and Its Component, Chrysin, Against Neuronal Cell Death via Inhibition of Mitochondrial Apoptosis Pathway in SH-SY5Y Cells

J. Agric. Food Chem, September 12, 2008

http://apitherapy.blogspot.com/2008/09/propolis-protects-against-nerve-cell.html

Abstract: Endoplasmic reticulum (ER) stress has been implicated in the pathogenesis of neurodegenerative and ischemic disorders. The purpose of this study was to evaluate the effects of Chinese propolis and its constituents [chrysin, galangin, pinocembrin, caffeic acid, and caffeic acid phenethyl ester (CAPE)] against tunicamycin-induced neuronal cell death in SH-SY5Y cells...

Comparative analysis of the protective effects of melatonin and caffeic acid phenethyl ester (CAPE) on mobile phone-induced renal impairment in rat

Mol Cell Biochem. 2005 Aug;276(1-2):31-7. Ozguner F, Oktem F, Armagan A, Yilmaz R, Koyu A, Demirel R, Vural H, Uz E.

Antibacterial activity of propolis against MRSA and synergism with topical mupirocin.

J Altern Complement Med. 2007 Sep;13(7):713-8.

Onlen Y, Duran N, Atik E, Savas L, Altug E, Yakan S, Aslantas O.

Department of Infectious Diseases and Clinical Microbiology, Mustafa Kemal University Faculty

Inhibition of Helicobacter pylori growth in vitro by Bulgarian Propolis

J Med Microbiol. 2003 May;52(Pt 5):417-9

Boyanova L, Derejian S, Koumanova R, Katsarov N, Gergova G, Mitov I, Nikolov R, Krastev Z.

Department of Microbiology, Medical University of Sofia, Sofia, Bulgaria

Apitherapy and Anti-Aging/collagen restoration

(2) Honey Helps Slow Aging Process

"Products of Apiculture and Preventive Maintenance of Aging"

Adv Gerontol, 2008; 21(2):252-7

http://apitherapy.blogspot.com/2008/10/study-honey-helps slow-aging-process_26.html

Examination of 193 beekeepers daily using honey in quantity of 57.2 +/- 8.6 gram with definition of their biological age was carried out...The biological age of beekeepers appeared not only less, than of the persons who are not using products of beekeeping, but it also is less than biological age of the population as a whole.

(3) Honey has antioxidant effects

"Significant Correlations' Between Honey Antioxidant Activity and Phenolic Content"

Evaluation of Antioxidant Activity, Phenolic, Mineral Contents and Some Physicochemical

Properties of Several Pine Honeys Collected from Western Anatolia

Int J Food Sci Nutr, 2008 Oct 23:1-13

http://apitherapy.blogspot.com/2008/10/significant-correlations-between-honey.html

(4) "Bee Venom Therapy for Chronic Pain", Dietrich K. Klinghardt, MD, PhD, FAANaOS-C, FABPMS-C, Board Certified Diplomate Pain Management Specialties, Neurological and Orthopaedic Medicine

The Journal of Neurological & Orthopaedic Medicine & Surgery, ISSN 0890-6599/90-1103, Volume 11, Issue 3, October 1990, Editorial

Offices 2320 Rancho Drive, Suite 108, Las Vegas, Nevada 89102-4592, pages 195-197.

Fraction:	Action:	Allows other components of Bee Venom to penetrate deep into tissues, inside cells, inside joint		
Hyaluronidase & Isoenzymes	Depolymerizes hyaluronic acid (the "glue" of the body)			
Compound X (W. Shipman)	Lowers surface tension of all fluids (Surfactant)	"Wets" cell walls with Bee Venom, allows better penetration		
Phospholipase A	Converts lecithin (cell wall) into lyso-lecithin. Lyso-lecithin acts as emulsifier, causes hemolysis in high doses. Most toxic component of Bee Venom	Emulsifies debris within joint and other tissues, increases local pain (for 10-15 minutes): counter-irritant		
Melittin				
Apamin	Stimulates central secretion of serotonin and dopamine. Blocks neurosynaptic processes in periphery	Increases central and peripheral pain threshold; decreased pain, increased sense of well-being		
Mast cell degenerating protein (Haberman)	Strong anti-inflammatory action (approximately 100 times more than hydrocortisone)	Reduces inflammation and pain through local action on tissues inflammation		
Other components: Acid phosphatase, alpha- glucosidase, phospholipase B, several peptides	Inhibition of: complement, kinines proteases, substance "P", and other effects	Anti-inflammatory, pain reducing		

BEE VENOM THERAPY RESULTS						
Diagnosis	# of Patients	Worse	Unchanged	Mildly Better	Good Results	Excellent Results
Diagnosis Gout	5	worse	Unchanged	better	Results	5*
Rheumatoid Arthritis		1	1		6	2
	10	1	1		0	2
(seropositive) Rheumatoid Arthritis	5	1			4	1
(seronegative)	3				4	1
Fibromyalgia (with	7		1		2	4
elevated ESR)	,		1		-	-
Sprain/Strain	21			1*	4*	16*
Cerv. Spine					65	10000
Sprain/Strain Lumbar	22	Y	4*	2*	5*	11*
Spine						
Disc Injury, Neck	8			1*	4*	16*
Disc Injury, Lumbar	13		2*	3*	4*	4*
Post-Laminectomy Pain	6		1	1	3	1
Arthritis Small Joints Hand	9		1	2	2	4
Painful Bunion	6			1		5
Post-Herpetic Neuralgia	4				1	3
Fracture Nonunion	1	2				1
Navicular						
Intractable Pain from	1					1
Large Burn Wound (after						
skin grafting)						
Osteoarthritis Knee	2		9		2	
Ankylosing Spondylitis	2				2	
Vertigo	5				3*	2*
Multiple Sclerosis	1				1	
Footnote: Asterisk (*) indicates that those patients had other significant treatment modalities.						
Sunday, 12 September 2010						

(4) BEE VENOM COMPOSITION (Chris Kim MD)

	ACTIVE AMINES		
PEPTIDES melittin (family)	histamine dopamine		
melittin F apamin mast-cell degranulating peptide 401 (MCD) secarpin	octopamine norepinephrine leukotriens		
tertiapin adolapin	NON-PEPTIDE COMPONENTS		
protease inhibitor procamine A, B minimine	carbohydrates like: Glucose Fructose		
cardiopep histamine (0.9%)	LIPIDS 6 phospholipids		
ENIZVAGE	AMINO-ACIDS		
phospholipase A2	r-aminobutyric acid B-aminoisobutyric acid		
hyaluronidase	Cysteine		
acid phosphomonoesterase	Methionine		
glucosidase	Acids		
lysophospholipase	formic		
lecithinase	hydrochloric		
	orthophosphoric		

B.V. SUBSTANCES AND THEIR EFFECTS

Phospholipase A (enzyme)

- radioprotective activity
- mastocytolitic
- histamine release
- blood pressure depressants
- antigenic properties it is the major BV allergen
- antagonistic effect on staphylococcal alfatoxin and tetanus toxin
- antitumoural effect
- acts on biological membranes

Hyaluronidase

- selectively attacks tissue hyaluronic acid polymers
- increase the capillary permeability (Neumann and Habermann)
- immune response and tissue-spread properties
- antigenic
- anaphylactogene

Apamin (a polypeptide with 18 amino acids)

- antigenic and
- anti-inflammatory properties
- antibacterial
- antifungal
- anti-lyme disease (in vitro experiment)
- antitumoural
- central nervous system inhibitory
- block nerve muscle and ganglial synapses
- contraction of the striated and smooth muscles
- histamine releasing
- mastocytololysic
- radio protecting (against X-irradiation; study on mice, Shipman and Cole, 1967)

Octopamin

- Dompamin analogue
- Noradrenergic effects
- Language development
- Sleep inducing
- Motor control
- Use in Autism and M.Prakinson

Mellitin (a polypeptide also consisting of 26 amino acids which represents 40-60% of the bee venom)

- antibacterial
- antifungal
- anti-lyme disease (in vitro experiment)
- antitumoural
- central nervous system inhibitory;
- block nerve muscle and ganglial synapses
- contraction of the striated and smooth muscles
- histamine releasing
- mastocytololysic
- radio protecting (against Xirradiation; study on mice, Shipman and Cole, 1967)

- vascular permeability increasing
- haemolysis
- lowers blood pressure
- anti-inflammatory
- mellitin (which represents 40-60 % from the B.V. substances) has no antigenic properties (Orlov); otherwise, according to Artemov, the bee enemies would have gotten a specific immunity
- stimulate the pituitary adrenal axis to release both cathecolamines and cortisol (Brooks *et al.*)
- increase plasma cortisol levels
- acts on biological membranes
- Presently, it is one of the most potent anti-inflammatory agents known, and it can be useful in treating arthritis and rheumatism

Mellitin

"Antiarthritic Effect of Bee Venom: Inhibition of Inflammation Mediator Generation by Suppression of NF- B Through Interaction With the p50 Subunit," Hye Ji Park, Seong Ho Lee, Dong Ju Son, Ki Wan Oh, Ki Hyun Kim, Ho Seub Song, Goon Joung Kim, Goo Taeg Oh, Do Young Yoon, and Jin Tae Hong, Arthritis & Rheumatism, November 2004; 50:11; pp. 3504-3515 (DOI: 10.1002/art.20626).

Their experiments focused on melittin, bee venom's principal peptide. They
observed melittin's power to block the expression of inflammatory genes,
much like COX-2 inhibitor drugs used to treat RA. Melittin effectively
reduces inflammation by inhibiting the critical DNA binding activity of NFkB (Nuclear Factor kappa B), which directly controls a number of genes
involved in immune reactions. Thus, Melittin's targeted inactivation of
inflammation may hold the key to the anti-arthritic effects of bee venom.

"The potency of melittin in the inhibition of the inflammatory response may be of great benefit in degenerative and inflammatory diseases such as RA," concludes Dr. Hong. "The extent of inhibitory effects of melittin in most parameters determined in the present study is similar to or greater than bee venom itself, suggesting that melittin may be a major causative component in the pharmacologic effects of bee venom."

Mellitin and Lyme

 (5) Lubke, L.L., and Garon, C.F.: The Antimicrobial Agent Melittin Exhibits Powerful In Vitro Inhibitory Effects on the Lyme Disease Spirochete. Clinical Infectious Diseases, 1997;25(Suppl 1):S48-51

From the Bacterial Pathogenesis Section, Rocky Mountain Laboratories Microscopy Branch, National Institute of Allergy and Infectious Diseases, National Institutes of Health, Hamilton, Montana, USA

Abstract

Borrelia burgdorferi has demonstrated a capacity to resist the in vitro effects of powerful eukaryotic and prokaryotic metabolic inhibitors. However, treatment of laboratory cultures on Barbour-Stoenner-Kelly medium with melittin, a 26-amino acid peptide contained in honeybee venom, showed **immediate and profound inhibitory effects** when they were monitored by dark-field microscopy, field emission scanning electron microscopy, and optical density measurements.

Furthermore, at melittin concentrations as low as 100 microg/mL, virtually all spirochete motility ceased within seconds of inhibitor addition. Ultrastructural examination of these spirochetes by scanning electron microscopy revealed obvious alterations in the surface envelope of the spirochetes.

Mellitin and Lyme

• (6 a) Vazquez, Joseph W. and Brooks, Chad S.: Evaluation of Melittin as a Novel Drug Therapy for Lyme Disease. Abstracts of papers presented at the 2007 meeting of the Tennessee Academy Of Science. Journal of the Tennessee Academy of Science, Jan-April, 2008 (Ed. Rex Barber), Austin Peay State University, Clarksville, Tennessee, USA.

Abstract

Borrelia Burgdorferi is the bacterium responsible for Lyme disease. In the absence of a vaccine, infected people must rely on antibiotics to cure them from B. burgdorferi infection. However, antibiotic therapy is not always efficacious, which warrants exploration of novel therapeutics. A prior study revealed that B. burgdorferi was susceptible to melittin, a metabolic inhibitor. Melittin is a 26 amino acid peptide and the primary component of honeybee venom.

This study explores melittin as a potential therapy for infected Lyme disease patents. In vitro analysis was performed to determine the bactericidal effects of melittin on B. burgdorferi in preparation for in vivo work. In vitro, a minimum of 100 ng/mL of melittin was necessary to kill 1 X [10.sup.6] B. burgdorferi organisms in 15 min. B. burgdorferi infected mice were subsequently administered 500 ng of melittin to determine the therapeutics of melittin. In vitro and in vivo data will be discussed.

RVT and Ivme

 (6 b) Joseph Vazquez, Jon McMahan, DeLacy LeBlanc and Chad Brooks: Evaluating the Bactericidal Effects of Melittin on Borrelia Burgdorferi. Austin Peay State University, College of Science and Mathematics, The second COSM Research Forum, Department of Biology, February 16, 2007. Austin Peay State University, Clarksville, Tennessee, USA.

Abstract

Borrelia Burgdorferi is the pathogenic spirochete responsible for the transmission of Lyme disease, the most common reported tick-borne disease in the world. In the absence of a vaccine, infected people must rely on antibiotics to cure them from infection with B. burgdorferi. However, antibiotic therapy is not always sufficient to clear B. burgdorferi infection in all patients which warrants exploration of alternatives and novel therapeutics.

Previous studies have indicated that B. Burgdorferi demonstrates a strong resistance against metabolic inhibitors such as melittin, a 26 amino acid peptide and the primary component of honeybee venom. Only one study exists examining the effects of melittin on B. burgdorferi survival and revealed that melittin had significant bactericidal effects on B. burgdorferi. However, their technique was not quantitative and therefore lacked empirical usefulness for further evaluation. This study explores melittin as a potential therapy for infected Lyme disease patents. In vitro analysis was performed on bactericidal effects of melittin on B. burgdorferi in preparation for in vivo work.

At the least, 10 mg/ml was necessary to kill 2.0 x 10(6) B. burgdorferi organisms in approximately 15 minutes. These findings have significant medical importance if they can be replicated in mammalian systems.

Mast Cell Degranulating peptide (Petide 401)

- In many animal studies, in comparison studies with hydrocortisone, this
 peptide was 100 times more potent as an <u>anti-inflammatory agent</u> in
 suppressing the development of adjuvant-induced arthritis. (M.Simics)
- increase both the force of contraction (beta-adrenergic) and the heart rate with little or no effect on coronary circulation (Brooks *et al.*);
- anti-arrhythmic properties (Brooks et al.);
- stimulate the pituitary adrenal axis to release both cathecolamines and cortisol (Brooks *et al.*)

Cardiopep

- increase both the force of contraction (beta-adrenergic) and the heart rate with little or no effect on coronary circulation (Brooks *et al.*)
- anti-arrhythmic properties (Brooks et al.);
- stimulate the pituitary adrenal axis to release both cathecolamines and cortisol (Brooks et al.)

Adolapin

- analgesic (Shkenderov, 1982);
- anti-inflammatory (Shkenderov, 1982)

MOL. Wt.	% (Dry Venom)	Reference
2,840	40-50	Neumann et al., 1952
2,036	2-3	Habermann <i>et al.</i> , 1965
2,588	2-3	Fredholm, 1966
11,500	1.0	Shkenderov, 1982
9,000	< 0.8	Shkenderov, 1973
	0.5	Gauldie <i>et al</i> , 1976
	0.1	Gauldie et al, 1976
	0.01	Gauldie et al, 1976
	1.4	Nelson and O�Connor, 1968
6,000	2-3	Lowy et al, 1971
	< 0.7	Vick <i>et al</i> , 1974
	2,840 2,036 2,588 11,500 9,000	2,840 40-50 2,036 2-3 2,588 2-3 11,500 1.0 9,000 < 0.8 0.5 0.1 0.01 1.4 6,000 2-3

ENZYMES			
Hyaluronidase	38,000	1.5-2.0	Neumann & Habermann
Phospholipase A2	19,000	10-12	Habermann & Neumann, 1957
Glucosidase	170,000	0.6	Shkenderov <i>et al</i> , 1979
Acid Phosphomono-esterase	55,000	1.0	Shkenderov <i>et al</i> , 1979
Lysophospholipase	22,000	1.0	Ivanova <i>et al</i> , 1982
ACTIVE AMINES			
Histamine			
Dopamine		0.13-1.0	Owen, 171
Norepinephrine		0.1-0.7	Owen, 1982

NON-PEPTIDE COMPONENTS		
Carbohydrates: Glucose & Fructose	< 2.0	O�Connor <i>et al</i> , 1967
LIPIDS		
6 Phospholipids	4.5	O�Connor <i>et al</i> , 1967
AMINO-ACIDS		
r-Aminobutyric acid	< 0.5	Nelson & O�Connor, 1968
B-Aminoisobutyric acid	< 0.01	Nelson & O�Connor, 1968

Technique

Bee venom therapy is safe, effective and often necessary in the treatment of late stage Lyme disease

Supplies:

- Venex-Forte (source: M. Simics): 1 ml contains the equivalent of 20 bee stings plus homeopathic dilutions of bee venom (helps to metabolize the venom in optimal ways, prevents allergic reactions, minimizes side effects and increases healing response). This is the only venom that we use because of its superiority. VeneX Forte contains these homeopathic bee venom potencies/dilutions of 6X, 12X and 24X (D6, D12 and D24)
- 3 ml syringes,
- 1"25 g draw up needles, ½"30g injection needles
- 1% Procaine
- Bee sting kit (injectible epinephrine/EpiPen) and oral Benadryl (Diphenhydramine, 50 mg tbl)
 - Epinephrine Brands in North America/ Synonyms: Ana-Guard Epinephrine, Adnephrine, Adrenalin, Adrenalin Chloride, Epicure, Epinephrine Bitartrate, Epinephrine Hydrochloride, EpiPen.
- Do not attempt to use bee venom for chronic Lyme without following the whole protocol
- If the patient has recovered, bee venom can be used alone or in conjunction with most other Lyme treatments, especially if biological agents and methods are used

Target minimum doses (given 3 times per week until patient clearly improved):

Up to 60 kg (132lbs) 0.5-0.6 ml (equivalent of 10-12 bee stings)
 Between 60-80 kg (132-176lbs) 0.6-0.7 ml (equivalent of 12-14 bee stings)
 Between 80-100 kg (176-220lbs) 0.7-0.8 ml (equivalent of 14-16 bee stings)

Procedure:

- Draw up 2 ml of 1% preservative free procaine (Procain Steigerwald in German speaking countries, from compounding pharmacies in the US) plus chosen amount of BV. Start on first visit with 1/20th of an ml (0.05ml) (=equivalent to 1 bee sting), use about 0.2 ml per injection site(= about 10 "stings" total). Wait for 20 minutes after the first injection to rule out an adverse reaction. Then procede with the rest of the 2.05 ml during this visit. 2-3 days later have the next session. Depending on after-effects slowly work up to the target dose over several weeks. Use always 2 ml procaine even with higher doses of BV, as the injection pain and post injection problems lessen with ongoing treatment
- Attach a 30 g 1/2 " needle (dental needle) to the syringe
- The needle is inserted almost horizontally into the skin, so that the needle tip is less then a mm deep under the surface, but inserted about 3-4 mm sideways from the insertion point, so that the venom does not flow backwards out of the skin on the side of the needle

Location: always start over the kidney/adrenal area with 5-6 small blebs (wheels) on each side. Each wheel should be about 4-5 mm in size. This greatly prevents untoward effects during the warm-up phase. The next area to be treated is determined based on symptoms, acupuncture knowledge and local tenderness to pressure. The approximate number of wheels is the same number as the number of stings-equivalent in the syringe. If neither symptoms nor knowledge are suggestive of a particular area, wheels should be placed 4 cm from midline along the thoracic spine (this is close to the sympathetic chain of the autonomic nervous system and often assures the greatest results.

Maintenance Dose

Once the patient is symptom free or it is assumed that there will be no further benefit, reduce the dose to the minimum number of injections recommended within a specific weight group and administer in twice a week.

Note

The treatment of Lyme disease is non seasonal, consequently venom from live bees cannot be used year around. Melittin is the highest end of June to end of August in bee venom. The rest of time it is only 1/4 to 1/3 of the quantity and quality compare to venom from Summer bees. In the treatment of Lyme disease, live bee sting therapy is not the best treatment option. Injectable venom with known amount of Melittin will provide a much better treatment outcome.

Common side effects

- Local swelling and pain is expected. Initially the size of the reactive area (red, swollen, painful) may increase over 3-6 treatments, then usually gets smaller with less intensity. After full habituation to the venom there is a maybe 6-10 mm size redness which disappears within an hour. Dependent on the reaction, the dose for the next treatment gets modified (more, less, smaller amounts distributed over larger area, wait more then 2 days for next treatment, but not more then 5). When there is large area of redness and swelling, lasting for a long time, initially only those body parts should be injected that are covered with clothes (legs, back)
- When there is no reaction, there is anergy this means a non-reactive state of the immune system which is typical in Lyme and worrysome. The immunesystem stopped fighting invaders. When the redness is excessive more then 2.5cm there is hyper-immunity, often combined with auto-immunity, which is also worrysome. After habituation to the venom most parameters of immunity normalize. This may take weeks or months.
- Sometimes patients get redness in the injected area weeks or months after the
 actual treatment. Sometimes the redness appears days afterwards in different body
 parts, usually related and explained in acupuncture meridian distribution
- The literature reports a few cases of bee keepers who developed a reversible nephrotic syndrome (protein loss of kidneys) from regular live bee stings. We have not observed this problem in our patient population with the use of Venex Forte.

Profound post-injection fatigue:

Indicator that the adrenal glands cannot respond to the challenge. Uncommon, when our protocol is used. Go back to only use the preparation phase supplements, wait 6 12 weeks and start again on BVT

Anaphylactic reaction:

Rare. May start with deep itch in hands and soles of feet. Then may progress to stridor (difficulty breathing). Start worrying when the redness from the injection (and the associated itch) spreads far beyond the injected area. Respond by using the same injection needle you just used as acupuncture needle: stick the needle halfway between nose and upper lip deep into the skin. If that does not work, take 50-75 mg diphenhydramine (Benadryl) which takes 20 minutes to work. Familiarize yourself with the Epi-pen or injectable epinephrine. Better to open a vial epinehrine 1:1000.use only $1/3^{rd}$ of content and inject anywhere just under the skin and massage the area for faster uptake. Effect feels like a super dose of coffee. Anti-anaphylactic effect may last only for 5-6 minutes and shot may have to repeated once or twice

No significant improvement:

It may take up to 6 months before the first clear signs of improvement are appreciated

Frank S., 46 year old male. Since 8 years sever fatigue and body aches, brain fog, tremors, unable to work Dx: late stage Lyme disease

lab: pos. Western Blot IgM, high viral titers (HHV6, EBV), low alk.phos, high LDL, low wbc

Treatment: Was treated by Lyme-literate physicians with ongoing antibiotic therapy for 3 years. Also was seen by nutritionist (metabolic typing) and was on multiple nutritional supplements, hormone replacement therapy (testosterone, hGH) and various homeopathics. Used a Rife machine daily

Result: only marginal improvement.

- 1st visit with Dr.K: did HPU test: highly positive. Started on "Core" 6 tablets with lunch soon after goes into detox crisis ("everything is worse"). Added colon hydrotherapy, mild exercise, MicroSilica and OSR with rapid lessening of crisis.
- 2nd visit (after 4 months on HPU treatment): Started full "Lyme cocktail": patient developed fevers, night sweats, anger outbursts for 6 weeks, then started feeling significantly better. Still had severe fatigue, moderate joint pains and brain fog.
- 3rd visit 7 weeks later: both hip joints were injected with 10 ml ozone (32 Gamma) with solid improvement of hip pain by the next day. On the same visit we started BVT with 0.05 ml plus 2 ml 1%procaine. Patient gets instructions for self-administration and is in phone contact with assistant. After the 4the injection (still only 0.05ml) severe anxiety attack, large area of swelling around the sites (kidney area), increased fatigue and increased joint pain. Continued with 0.05 ml BV. After the 7th injection only minimal swelling, no systemic symptoms. Started dosage increase. After 6 weeks first improvement in fatigue and joint pains. Therapy continues 3 times per week (he treats himself at home without supervision). After 5 months 80% improvement on all aspects. After 9 months asymptomatic. He stops the therapy (against our advice). Slow decline of health over 2 months. He restarts therapy with full dose he had reached before (0.8 ml) against our advice and has severe reaction (anxiety, shortness of breath, severe injection site pain) but he gets through without using his EpiPen. He waits for a few days, then restarts the therapy lege artis with 0.05 ml plus procaine and slowly inches up again to the full dose. He is again asymptomatic in 3 weeks , now injects himself twice weekly.

At the time of this writing Frank is asymptomatic since over 2 years.

Summary

Preparation phase:

Rule out HPU and treat if positive. Only then start treatment with the Lyme cocktail

Initial phase:

After the Lyme cocktail is established and tolerated, start bee venom injections with lowest dose, slowly increasing to target dose or higher (the dose where symptoms start to retreat). Aim at 3 treatments per week. No pauses, which may allow the body to develop allergic reactions

• <u>Treatment phase:</u>

after reaching the effective target dose ,stay with it. Estimate 2 months treatment per each year of illness. 3 times per week till stable, then twice weekly

• <u>Maintainance phase</u>:

find the lowest dose that maintains optimal health, injections twice weekly

• <u>Length of treatment:</u>

at least 18 months, but consider treating for life - or as long as you want to feel well

Other valuable apitherapy items in the treatment of Lyme Borreliosis and co-infections (M.Simics)

Injectable Venom Solutions - Venom solutions prepared from Grade I. honeybee venom: VeneX-10, VeneX-20 or VeneX Forte mixed 1:1 to 1:4 with 1% Procaine.

VeneX Ointment (with bee venom) - Preferred indications are chronic neuritis, degenerative arthropathy, functional disturbances of muscles, ligaments and tendinous insertions, lumbago, muscle warming prior to and during sport activities, myalgia, neuralgia, peripheral circulatory disturbances, sciatica, subchronic and chronic polyarthritis, shingles and sports injuries.

Lyme symptoms: Apply ointment to the painful areas (Table 1.), joints (intermittent or chronic pain, swelling) and for muscle pain, muscle cramps/aches, inflammation, loss of muscle tone and reflexes.

ApiMixx Caps. - Capsules with the right ratio of bee pollen, propolis and royal jelly to support bee venom therapy. (2-4 caps/day)

Anti-Itch Gel - To lessen the itch from bee venom. This product is at least five times stronger compare to any other products on the market. It was formulated specifically for bee venom therapy to those who receive venom the equivalent of multiple "bee stings". It will not neutralize the effect of the venom. It has strong odor, -- but works within minutes!

Apisil Ointment - Multi-purpose ointment to speed up healing of skin from injections marks (order it only if you have sensitive skin).

Propolis Tincture/Nano-Grade - Propolis for Babesia microti, Mycoplasma pneumoniae, Bartonella henselae infections. For the detoxification of the body (neurotoxin elimination), it is a natural antibiotic, to kill molds (use propolis vaporizer inside the house), memory loss and for immune support.

Royal Jelly- One gram of liquid royal jelly equivalent to 250-300 mg freeze-dried royal jelly.

liquid: 1,000-2,000 mg daily, preventive dose freeze-dried: 300-600 mg daily, preventive dose 2,000-5,000 mg daily, therapeutic dose 600-1,500 mg daily, therapeutic dose

Beware of possible allergic reactions

Warning

Royal jelly may cause very serious allergic reactions. Asthma sufferers are most at risk.

How to Order Apitherapy Supplies:

If bee venom therapy is a treatment option, a prescription is needed for the venom solution. On the prescription show the name of the patient, diagnosis, his/her body weight and the product name: 1 x VeneX Forte, or 1 x VeneX-20, or 2 x VeneX-10. The Lyme protocol available with product order only as part of the supportive literature.

Starter Package

- 1 x VeneX Forte, or 1 x VeneX-20, or 2 x VeneX-10 (260 injections)
- 1 x Lyme Protocol Package
- 1 x ApiMixx Capsules to support bee venom therapy (recommended)
- 2 x Anti-Itch Gel to reduce itch (recommended)
- 1 x VeneX Ointment (optional) Shipping (two parcels)

Brochure: Bee Venom Treatment Protocol

Klinghardt, Dietrich MD: The Treatment of Lyme Disease with Bee Venom - detailed treatment procedure and summary of feedback from over 500 Lyme disease patients.

First Order

- 1., Fax prescription to 1-604-271-9414.
- 2., Provide detailed shipping address, phone/fax number, etc. Make sure that the address is correct.
- 3., Orders shipped pre-paid.
- Source of apitherapy supplies

Michael Simics: msimics@direct.ca

Apitronic Services Tel./Fax: (604) 271-9414 9611 No. 4 Road Email: msimics@direct.ca

Richmond, BC Skype: m_simics

V7A 2Z1, Canada Web: <u>www.beevenom.com</u>

Dietrich Klinghardt MD,PhD

USA:

Teaching, web-based information, seminar schedule:

Klinghardt Academy of Neurobiology

www.klinghardt.org

Medical office (CMC - Comprehensive Medical Center, Kirkland, WA, USA): (001)- 425 823 8818

Supplements for detoxification and Lyme treatment:

BioPure US: 001-425 462 8414 <u>BioPureUS.com</u> and <u>BiopureEurope.com</u>

German speaking EU:

Teaching in Europe: INK (Institut fuer Neurobiologie nach Dr.Klinghardt in Freiburg

Waltershofen)

tel: 07665-93247-10 Fax: 07665-93247-20

seminar@ink.de www.ink.ag

Supplements for detoxification and Lyme treatment:

BioPure Europe Tel: 07665-938610 Fax: 07665 9386920

<u>kontakt@bio-pure.de</u> <u>www.Bio-Pure.de</u>

France and all other non-English, non-German speaking countries:

CINAK (Centre International de Neurobiologie Appliquee selon le Dr Klinghardt, Geneve, Suisse)

Tel: (41)(0)227969464 Fax: (41) (0) 227969454 info@cinak.com