



LYME MEXICO  
DR. OMAR MORALES

## TREATMENTS

Lyme Disease Mexico offers innovative treatments to get to the root of chronic illness. Our mission is to help all patients who are still searching for a solution to this complex disease, and to address each issue one step at a time together.

Our therapeutic approach is designed to complement the orthodox medicine in a holistic way, to change the natural course of the disease without harming the person. It is a balance between treating the problem, cleaning, restoring and rehabilitating the body and ultimately allowing the body to heal itself. Your treating physician may change, add or remove some aspects and items of the proposed therapy, based on the patient's evolution, as well as medical criteria.

Currently, these are the treatment protocols we offer. Along with these therapies, the doctor and patient will collaborate on a well-rounded plan that will also include aspects of nutrition, lifestyle and detoxification.

### IV THERAPY

- **IV Silver Hydrosol:** a Nano particle of silver that can penetrate any living organism, tissue, and cell nucleus to eliminate pathogens by encapsulating their proteins. Capable of penetrating biofilm bacteria.
- **High Dose Vitamin C/H<sub>2</sub>O<sub>2</sub>:** demonstrates broad-spectrum efficacy against viruses, bacteria, yeasts, and bacterial spores. Hydrogen peroxide is used for the sterilization of various surfaces, including surgical tools, and may be deployed as a vapor for room sterilization.
- **Methylene Blue:** Low Dose Methylene Blue (M-Blue) is an antioxidant substance that regenerates and repairs the mitochondria and helps restore their breathing function. It is a potent nutraceutical that crosses the Blood Brain Barrier and possesses a wide range of effective application. We use it both orally and intravenously to treat malaria, babesia, anaplasma to name a few. It has been shown that Methylene blue can be used to kill parasites, help mitochondrial function and protect the brain from disease while simultaneously enhancing nerve cell signaling.

### ANTIMICROBIAL IV THERAPY

Traditional antibiotics: Oral or intravenous (IV) antibiotics can be used to help eliminate Lyme or tick-borne bacteria from the body. Antibiotic treatment is tailored to each individual and is often used in combination with other treatments and therapies to ensure the bacteria is eradicated completely.

- Anti-microbials which act in the cell's membrane
- Anti-microbials which act inside of the cell
- Anti-microbials that act against persisting cells
- Anti-microbials that act against Bio-films
- Anti-microbials against virus, yeast, fungal, parasites or other-directed therapy



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## OXIDATIVE MEDICINE

- **Ozone:** used to modulate, detox, sterilize, oxygenate, and lower inflammation. Ozone has very low secondary effects and its distribution and activity is almost immediate, making it a very useful tool, depending on the use and type of application. Usually performed by mixing one liter of blood with 1000cc of ozone in a daily application through IV, rectal, vaginal, nasal, othic or topical means.
- **UV Light Blood Irradiation:** blood is irradiated with antiseptic UV light, killing all exposed pathogens (viruses, yeast, mold, bacteria, and parasites). It also acts as an immune modulator, speeding up cell synthesis and cell phases, and is an effective and safe way to continue the elimination of bacteria and parasite multiplication in the current blood flow.

## BIOFILM ERRADICATION

Lyme disease biofilms are protective communities for Lyme germs. Inside these bacterial reservoirs, various forms of the Lyme spirochete can hide from prescriptive antibiotics, herbal antimicrobials, and the immune system. In chronic Lyme and associated diseases, biofilms can cause treatment resistance and relapse once antibiotics or herbal antimicrobials are stopped. In addition, the bacteria have an opportunity to perform horizontal genetic transfer during which bacteria creates super bacteria that is almost indestructible due to the mutated genetic material acquired inside the biofilms. Therefore, it is a top priority to effectively combat these resilient reservoirs known as biofilms. There are very few approaches that truly eradicate biofilms. The LDCH treatment we offer at Lyme Disease Mexico is based on the only published material that successfully eradicates biofilm structures in all of the cases. It has been proven that biofilm structures are not found after 7, 21 and 40 days after treatment.

See the video below for a thorough explanation of biofilms, beginning with how they confer resistance to bacteria. Skip to 4:04 for an illustrated demonstration of how these biofilms live and grow in humans!  
[http://www.youtube.com/watch?v=lpI4WCM\\_9pM](http://www.youtube.com/watch?v=lpI4WCM_9pM)

The protocol is combination of anthracycline derivatives and antimicrobials that act intra and extracellular. The Anthracycline activity works by inhibition of DNA and RNA synthesis by intercalating between base pairs of the DNA/RNA strand, thus preventing the replication of persistent bacteria and their biofilm colonies. Recent studies have shown this combination prevents the relaxing of supercoiled DNA, thus blocking DNA transcription and replication, producing DNA breaks.

Drugs with high activity against the *B. burgdorferi* stationary phase persisters and bio-films were identified through screens of FDA approved drug library and NCI compound libraries. Among them, anthracycline antibiotics were found from the NCI compound library screen as having excellent or good activity against *B. burgdorferi* persisters and bio-film microcolony structures.

For assessing the activity of anthracycline compounds in combination with current Lyme antibiotics against biofilm-like structures, a 15-day old *B. burgdorferi* stationary phase culture was used. Aliquots of the drugs were added to 96 well plate containing 100  $\mu$ L of the 15-day old stationary phase *B. burgdorferi* culture which was enriched in aggregated biofilm-like structures to create a final drug concentration of 10  $\mu$ g/mL for each drug. This drug concentration was chosen as most drugs evaluated in this study fell within or close to their C<sub>max</sub> values (maximum serum concentration); The plate was then sealed and was incubated at 33°C without shaking for 7 days, and results established using the SYBR Green I/PI viability assay and confirmed using epifluorescence microscopy.



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To validate the activity of these drug combinations, treated cultures were subjected to subculture after removal of the drugs by washing followed by incubation in fresh BSK medium for 7 or 21 days. A lack of visible regrowth when measured by microscopy suggests that few to no viable cells remain after drug treatment, while visible regrowth of the culture would indicate the presence of viable cells after drug treatment. The drug combination showed no visible regrowth after 7 and 21 days, suggesting no viable *B. burgdorferi* organisms were left after the treatment.

## ANTIVIRAL PROTOCOL

An Anti-metabolic agent is used as an RNA polymer and nucleotide inhibitor, possessing a high Anti-viral activity, acting as well by partial inhibition of Viral DNA synthesis, preventing Viral replication just at the lowest dose necessary to sensitize organisms for photo-exposure, from which such cyclic molecules absorbs a photon, and one of its electrons is promoted into a higher energy, thus, elevating it into  $S_0$ , a short lived electronically excited stage, followed by apoptosis, as photochemotherapy combined therapy. We prolonged the Anti-metabolic agent's medium half life by applying it at 4 drops per minute and in some cases for 24 hours straight, allowing a maximum anti virus replication effect, followed by photo exposure. (Each dose and exposure time is case dependent)

## MEDICATIONS & SUPPLEMENTS

- **Antibiotics:** delivered via oral or intravenous methods and most successfully used in combination with other approaches, such as herbs or biofilm breakers. The world medical community is divided over the use of anti-malarial antibiotics in Lyme patients. Some doctors have achieved success using such therapies.
- **Herbs:** a very effective way to treat any microbial infection. Herbs treat and detox in a natural way, without the side effects of a manufactured drug. If taken properly, herb treatment has very little to no secondary effects.

## EVALUATION

- **Giemsa Microscopy & Live Blood Analysis:** a comprehensive study of the patient's blood smears to determine the presence or absence of intra and extra cellular bacteria that represent an active infectious condition. The smears are compared with organisms such as Bartonella and Babesia to establish the percentage of infection and determine appropriate treatment. These findings must be correlated with the patient's current clinical condition and serve as a parameter with other findings or diagnostic tools.

## PROCEDURE

- **Vascular Access Insertion:** peripheral ports are fitted by our vascular surgeon to allow access and more effective treatment delivery to radial, brachial-radial, jugular, central, or sub clavicular areas. Sedation is an option for this procedure.



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## IMMUNOTHERAPY

- **IVIG:** uses exogenous globulins to fight pathogens and is particularly effective in cases where immune suppression is noticeable.
- **Dendritic Cells Vaccine/T-Cell Vaccination:** made from the patient's own biological products, the vaccine educates the immune system to recognize pathogens in blood and tissues and activates white cells to kill them. A safe option to create an immunological response by way of a vaccine. The mechanism starts by maturing your dendritic cells (antigen presenting cells) and incubating them with parasitical and bacterial peptides obtained by UV irradiation. These mature cells help the immune system capture and eliminate pathogens effectively, passing along this information to other developing cells and creating a chain of endless immune response. Usually a portion of a Lyme patient's immune cells remains immature due to a protein expressed by *B. burgdorferi* that inhibits cellular phases.
- **Hypothermia Induced Therapy:** achieves the safe delivery of heat to the body or blood, allowing it to create an artificial fever response that activates heat shock proteins, a major factor in the fight against bacteria.
- **Activating Macrophage Therapy:** an essential human protein our bodies make that remove a number of diseases. Activating Macrophage Therapy is therefore a replacement therapy for those that can't make their own, and has been known to cure chronic illness by activating macrophage white blood cell production.

## DETOX THERAPY

- **Detox by Homotoxicology and Chelation:** a combination of infusions, vitamins, minerals and special binders help eliminate and chelate foreign substances and heavy metals, allowing the immune system to perform effectively.
- **Body Purification Protocol:** This protocol consists of:
  - Nettle & Cold Water Applications
  - Steam Showers
  - Mud Cataplasmas
  - Coffee Enemas
  - Onion Compresses
  - Sitz Baths
  - Vegetarian, Fruit & Grain Diet
  - Teas & Infusions
- **Manual Lymphatic Drainage:** One of the most significant detoxification measures we suggest is Lymphatic Drainage massage, particularly the Vodder method. It is a gentle, non-invasive manual technique to assist in lymph flow and aid in drainage of tissues, ultimately having a powerful effect on the body. It involves rhythmical pressure massage focused on precise locations of the body designed to encourage the body's natural drainage and removal of excess fluid and waste products from body tissues. MLD is commonly used as a way to control conditions like lipoedema or lymphoedema, which is where the bodily tissues swell and retain fluid.



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## THERAPEUTIC APHERESIS THERAPY

- **Apheresis:** filtrates and cleans whole blood, even in the worst cases. Established by the European Association of Infectious diseases as a primary treatment for severe, chronic Babesia and other blood and plasma parasites. Apheresis can be divided in three types.
- **Plasmapheresis or plasma exchange:** used to remove toxins from the blood by filtrating excessive proteins that are surrounded by pathogens, which are creating an infected and viscose environment.
- **Photopheresis:** the dynamic irradiation of all the patient's blood in one session, treating approximately eight liters with UV light per hour.
- **Red cell exchange or blood exchange:** the method most commonly recommended for Babesia, red cell exchange lowers the percentage of pathogens in blood from 10% to as low as 0.5%. A very effective method to immediately extract all infected cells and exchange them for healthy donated blood that has been screened and is free of disease. This procedure can lessen or even eliminate symptoms after one session, especially neurological and psychiatric symptoms from acute neuro-borreliosis.

## REGENERATIVE THERAPY

- **Stem Cells:** Stem Cells have the remarkable potential to develop into many different cell types in the body, ultimately serving as a repair system for the body by dividing and replenishing other cells without any limitations.
- **Peptide Therapy:** This protocol consists of:
  - Cerebrolysin
  - Thymosin Alpha 1
  - Follistatin
  - Thymosin Beta 4
  - CJC + Ipamorellin 1
  - PT 141 1
  - Thymulin
  - LL37
- **Cold Laser Therapy:** is a nerve, muscle and joint regenerative aid for people suffering from musculoskeletal conditions, neuropathy and injuries, such as: carpal tunnel syndrome (CTS); fibromyalgia, osteoarthritis; rheumatoid arthritis; temporomandibular joint (TMJ) disorders; wound healing; Complex Relapsing Pain Syndrome (CRPS); MMN; peripheral neuropathy; denervation; and physical injury. It has been shown to improve nerve growth and circulation up to 40% more than conventional therapy. We suggest that if you or someone you know is suffering from such conditions to consider trying CLT combined with C.M.P. FORTE and cerebrolysin peptide, thus achieving a much higher success rate. It's easy, simple, painless and anti-inflammatory.