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U.S. v. LeBeau – Health Freedom Rights Legal Battle Moves from Milwaukee to 7th Circuit Court of Appeals

- In the Beginning -

Conrad LeBeau

It began on Dec 7, 2010 with the filing of an "Information" by local U.S. Attorneys Gordon Giampietro and James Santelle. Speed forward 5 years to Feb 3, 2016 – U.S. District Judge Charles N. Clevert finishes his review of Case No 10-cr-253 under Rule 58. The case had been on his desk since December 2012 and had been languishing in the Federal District Court in Milwaukee, WI for more than 3 years.

The "Information" (Complaint) of 12/07/2010 from the "United States" (plaintiff) was that I had made "disease" claims for 4 herbal and nutritional supplements and shipped them in interstate without first obtaining prior approval of the health statements from the U.S. Food and Drug Administration (FDA). [The FDA position is that the health statements transformed the 4 health products into drugs.]

The complaint said I had not filed a New Drug Application (NDA) with the FDA prior to shipping these 4 products in interstate commerce. The 4 products in question had not been approved by the FDA as "new drugs."

The products were "Spirochete" – an herbal formula made by Kroger Herb Co and the alleged offense was "*may help with Lyme disease.*" The second product was *Sacchromyces Boulardi* – a probiotics made by Jarrow Formulas; the alleged offense was "*for diarrhea related to C difficile.*" The third product was "Perfect Colon Formula" – a fiber probiotic formula I designed and the alleged offense was "*reduces food allergies*" one of 13 benefits printed on a handout brochure. The last product was "*LeBeau's Cold and Flu Formula.*" The alleged offense was the name of the product suggesting its intended use.

At a plea hearing on Jan 4 2011, I entered a plea of "not guilty" before Magistrate William Callahan. I was then handcuffed and taken to a room in the basement of the Federal courthouse where I was finger printed and they took a sample of my saliva for the DNA. I also gave them a urine sample that they tested for "real drugs" (cocaine and heroin) and other narcotics; they found none. The Magistrate then released me on my own recognizance and with no bail.

Within a few days after this hearing, U.S. Attorney Gordon Giampietro offered me a plea deal to plead guilty to one charge and he would drop the other 3 charges. He offered me generous terms: a small fine of \$100 with one year's probation and no jail time.

Under the Speedy Trials Act, my case [as are all other federal misdemeanor criminal cases] was set for a jury trial 60 days after the plea is entered. Thus, a jury trial was set for March 4th.

Now I know that real criminals would have lined up for miles and probably even walked over hot coals to get a deal as good as this one that was offered me. However, I also believed my First Amendment right of speech was being violated under color of law, and that the real criminals were my accusers at the US. FDA.

Not so Fast - the FOIA request

In my mind, the immediate reaction to the government's offer was – "not so fast." Reading the court rules, I was disappointed that I did not have the same discovery rights as in a civil case. The government's case rested on the definition of two words. One was the definition of "**drug**" and second - the definition of "**disease.**" Both definitions are broadly defined in the government's favor by 75 plus years of

“**case law**” - court decisions going back many decades.

Since the court rules did not allow me to confront my accusers directly with interrogatories (questions) before a trial. I decided to file a Freedom of Information Act (FOIA) and seek answers to several questions or files. In my first FOIA request of Feb 8, 2011, the most important question was a copy of an historic document that defined the Congressional intent in passing the Pure Food Act of 1906. This is the Act that first created a new agency in the Federal Government known as the Food and Drug Administration or FDA.

My first FOIA request was mailed to the FDA requesting 17 files or answers to specific questions. Question No 14 had special significance but along with the 16 other documents I requested was never answered.

14. A copy of the statement of Congressional intent accompanying the passage of the original U.S. Food Drug and Cosmetic Act of 1905/1906.....”

The request for a statement of Congressional intent in passing the Pure Food Act of 1906 was never provided, but I was able later-on to find the intent of Congress in the Congressional Record of 1905 and 1906 at the Milw. Public Library. Excerpts with quotations from the U. S Senate and House are contained in my first Motion to Dismiss I filed in May of 2011.

On Feb 15, 2011, I mailed a second FOIA request that was answered probably because I did not mention that it was associated with an ongoing court case. **The answer was breath taking** in that the FDA admitted that it had not approved a single food or herb and any non-patented product as a drug in its entire history of approving drugs from 1938 to 2010.

The Intent of the lawmaker is the Law.

Under basic principles of American jurisprudence, the intent of the lawmaker is the law. Under the U.S. Constitution, only Congress has the authority to pass laws; neither the Executive branch of government, its subdivisions like the FDA that are under the President, nor the Federal Courts have the authority to write and pass laws.

The Pure Food Act of 1906 was the beginning of the legal definition of the term “drug” so it was a starting point for its definition. The question I had – was this definition intended to include food, spices, fruits, vegetables, spices and edible herbs? At least one of the 4 products, “**Perfect Colon Formula**” was a food based nutritional supplement. In my FOIA request, I indicated that I needed a rapid reply for the upcoming trial set for March 4, 2011. I gave them the Case number in a cover letter.

Within a few days, an FDA attorney Nate Sabel contacted my court appointed Counsel Brian Mullins and asked for a teleconference with Mullins and me. I refused to participate in the teleconference. Sabel told Atty. Mullins, that it would cost me over \$4000 to have the FDA provide me with the answers to the list of 17 questions and/files I had requested.

At a status hearing held by Magistrate Callahan shortly after I mailed out the FOIA request, the subject of my FOIA request came up and Magistrate Callahan asked the U.S. Attorney how long it would take for the government to answer my FOIA request. I was surprised when Attorney Giampietro said “several months.” At this point, Federal Defender Mullins asked for time to file a Motion to Dismiss. Immediately, I began to work on it and develop legal arguments to assist him.

However, when Attorney Mullins was unable to meet with me after several attempts to get together and write this motion, I decided it was time to dismiss him and take over my own case.

On May 17 2011, I wrote a letter to the Magistrate requesting to be allowed to represent myself. Attorney Mullins than asked the court to be allowed to withdraw from the case. It was approved and now I was on my own with some free legal help from standby counsel from the Federal Defenders office. However, since court rules require a corporation to be represented by an attorney, and I was not an attorney, I could only represent my self under the rules; Vital Health Products Ltd, had no attorney.

On May 26, 2011, I filed a 70 page “**Motion to Dismiss**” (Doc. No 28) that had over 200 pages of Exhibits attached to it and a hard copy

of a book by Constitutional Attorney Jonathan Emord – **The Rise of Tyranny**.

Emord's book discussed 8 legal battles with the FDA in Federal court and his defense of the First Amendment rights of speech about the health benefits of foods and dietary supplements.

In September 2011, Magistrate Callahan denied my Motion to Dismiss. Several more motions followed. My last set of legal arguments was denied on the same date, Dec 7, 2011, one year to the date the Information was originally filed (Dec 7, 2010).

On Friday, Jan 13 2012, with my health deteriorating, I concluded I would not be able to cope mentally or physically with a trial and opted for the best deal I could get – I pled guilty to one count while preserving all the legal issues for appeal in Doc 28 in the Plea Agreement. If I prevail on any one of the legal issues, I could withdraw the “plea” and my record would be swept clean - “like nothing ever happened”

With 127 documents now filed in this case, it has grown from a molehill into a mountain of legal issues. Judge Clevert's Decision of Feb 3, 2016 and my appellate brief and request (Petition for En Banc) for a 9-judge panel has been filed. All three are now posted at keephopealive.org.

The Appellate Brief – 10 Issues of law

My 30-page Appellate brief was mailed on March 17th, St Patrick's Day. There are 10 questions and some sub-questions framed within each question.

Does the Congressional Record from 1906 through 1994 indicate that Congress authorized the FDA to classify “foods” as “drugs” based on their intended use to prevent or mitigate disease, and does this suppression of commercial speech run contrary to the First amendment?

While the Courts have for the past 75 years given deference to the Executive branch of government to use an expanded definition of “drug”, first defined by the Pure Food Act of 1906, the defendant presents a compelling arguments in his brief and will do so in person why this definition is not only an over-reach of regulatory power to suppress speech, but is

contrary to the First Amendment right of commercial speech and contrary to the intent of Congress.

This has resulted in a regulatory padlock that the FDA has placed on more than half a million scientific studies at the National Library of Medicine on how foods (spices, herbs, plants, vegetables and fruits) and traditional natural remedies can prevent or mitigate disease or do both.

It is impossible or virtually impossible (both factually and legally) to comply with the mandate that speech about a foods medicinal value must first be subject to the approval of the FDA through the New Drug Application (NDA) process. One hundred million Americans either buy health foods or use nutritional supplements, and because the First Amendment protects the right of free speech, the defendant will present the balance of his arguments in person before the 3 judge panel on why “how the law as applied” must change.

The 10 questions listed in my brief are as follows:

1. **Defendants intentions:** Did the defendant intend, as the government alleges, to make a disease claim for Perfect Colon Formula when he used the term “reduces food allergies” in a handout flyer and do the facts about the case as reported in Document 28 (Motion to Dismiss) support or refute this?

2. **Plea Agreement defect, transcript contradictions, and threats from the government:** Does the Plea Agreement (Doc 58) support the government's narrative that the plea of “guilty” meant the defendant intentionally had a “state of mind” to distribute unapproved new drugs in interstate commerce, and does the transcript of the Jan 13, 2012 hearing on the Plea Agreement (Doc 96) support or contradict this narrative?

3. **The Patent issue and the Doctrine of Impossibility:** Why is it that the U.S. Food and Drug Administration has never approved a single vitamin, mineral, herbs, food, nutritional or dietary supplement as an “approved new drug”

in its entire history of approving drugs? Does the New Drug Application (NDA) mandate fatally impair the First Amendment right of LeBeau to use speech about a food supplement by placing a regulatory and financial burden for pre-government approval of that speech?

4. Congressional intent and the Doctrine of Overbreadth; Did the Congressional Record of 1906 as amended in 1938, 1962, 1990 and 1994 show that the original definition of a “drug” had a limited meaning that included, besides patented medicines, cocaine, heroin, narcotics, and nostrums but did not include water, herbs, food, spices, nutritional supplements, vegetables and fruits?

5. Judicial expansion of the legal definition of drug. Did the Courts, not Congress, expand the legal definition of “drug” as originally described in the Congressional Record of 1906, and amended (in 1938, 1962, 1994), to go beyond its original meaning and expand the scope of the definition at the insistence of the Executive Branch of government?

6. Congressional intent in passing DSHEA in 1994: Did Congress intend to narrow the scope of health products that the FDA could classify as “drugs” with the passage of DSHEA? After passage of DSHEA, has the FDA done an end run around this law by classifying food and dietary supplements as drugs based on speech they object to that was used in labeling? As the FDA applies numerous case law citations to foods and dietary supplements, is the speech itself the alleged “drug”?

7. Applying DSHEA to Perfect Colon Formula: With the passage of DSHEA in 1994, should Perfect Colon Formula be considered by its composition to be a food or dietary supplement and not a drug? Are the words “reduces food allergies” used in a handout brochure the alleged “drug” that the government objects to and found offensive? Based on the scientific research cited in Doc 28 and Doc 75,

are the words “reduces food allergies” a truthful and not misleading statement in the context of how they were used?

8. DSHEA and the Congressional Record of 1994 and other relevant arguments: When U.S. District Judge Charles Clevert set the date of July 21, 2015 for oral arguments in this case, did he open the door for the defendant to expand his arguments of law to include the Congressional Record of 1994 in passing the Dietary Supplement Health and Education Act?

9. 24 questions for the government that it failed to admit or deny: Should the 7th circuit consider allowing all of these requests for admissions to be entered into the record as evidence they were “admitted” or “acknowledged” by the government?

10. Restraint of Trade and Case law on the freedom of speech and press: How does Central Hudson, the Caronia case, and legal cases discussed in the book “**The Rise of Tyranny**” by Atty. J. Emord support the defendants first amendment arguments in this case? In 1788, in framing the U.S. Constitution, did the Continental Congress delegate to the new U.S. Congress in Art I, Sec 8, U.S. Constitution the power to suppress commercial speech about how foods, herbs, water and other traditional natural remedies prevent and mitigate disease?

March 17, 2016 *Conrad E LeBeau* - pro se

Update - Notice from the 7th Circuit

March 24, 2016: Today I received a notice my Brief has been filed with the Court of Appeals in Chicago. The government has until April 20th to respond. My Petition for En Banc (9 Judge Panel) was returned. I was told it could be filed later on should I lose before the 3 judge panel.

Sometime next month, I expect to receive a notice for a date on oral arguments. I will post it at keephopealive.org when it becomes available. The public should be able to attend and hear my presentation.

Emotions

Feeling Emotions – A Requirement for Health and Happiness

Ron Peters MD

No one wants to suppress happiness, joy and love. And yet many hold in anger, sadness, tears and other, so called “negative emotions”.

Children are born knowing how to feel emotions; it is standard equipment at birth. But we are often taught early in childhood to break this natural mindbody release with dysfunctional beliefs such as “little girls shouldn’t be angry”, and “boys shouldn’t cry”. We go about our days numb to the pain in ourselves, our family, our society and our world. The pain moves into the body and we develop dis-ease.

However, emotions are the rich, vibrant part of life and they make life worth living. Indeed, the purpose of our work, relationships and life in general is to feel happy, excited, passionate, joyous and loved.

Emotion is e-motion, or, energy in motion. Like water, emotions need to flow. If they are damned up, then just like a stream flowing out of the mountains, they will disturb the terrain. You cannot suppress anger and tears and expect love and joy to flow naturally. All emotions are part of life. Releasing the painful ones is part of healing and enjoying the good ones is the purpose of life.

Indeed, your emotions are your personal, built-in, navigational system in life. Just as an automobile navigation system will take you to your destination, your emotions will guide you in finding happiness and fulfillment in your life. Not only will they guide you to fulfillment in your life, they will help you heal your diseases. According to Candace Pert, in her book *Molecules of Emotion*:

Mind doesn’t dominate body, it becomes body – body and mind are one. I see the process of communication . . . the flow of information throughout the whole organism, as evidence that the body is the actual outward manifestation, in physical space, of the mind.

Bodymind, . . ., reflects the understanding, derived from Chinese medicine, that the body is

inseparable from the mind. And when we explore the role that emotions play in the body, as expressed through the neuropeptide molecules, it will become clear how emotions can be seen as a key to the understanding of disease.

Emotional Wounds and How They Heal
We all have emotional wounds from childhood stored in the unconscious mind. The following is a quote from the second chapter of my book *Edgework, Exploring the Psychology of Disease*, page 22:

In a nutshell, the explanation goes like this: As you know, the human mind is partly conscious and partly unconscious. The conscious part offers us the familiar mix of thoughts, plans, worries, emotions, expectations, contemplations, and the like, that we experience day to day.

The unconscious part, on the other hand, is unknown to us consciously but contains a tremendous amount of personal experiences that has been stored there since birth (possibly since prenatal life, but more on this later). Most of the material stored in the unconscious mind is emotions that were not fully felt and released at the time of the original experience.

For example, the child that is abused in some way but not permitted to express the natural anger and pain of the experience, unknowingly seeds the “unfelt” emotions into his/her unconscious mind, where they become emotional wounds.

And, just as physical wounds heal automatically without you having to think about it, emotional wounds also have a natural healing mechanism. The stored emotions will unconsciously influence your choices in life in order to set up circumstances, which will permit the un-owned emotions to come up, be felt and released.

Basically the past will return to us again and again until we allow the emotions to surface into consciousness. Carl Jung addresses this issue when he said:

“Emotion is the chief source of all becoming conscious. There can be no transforming of darkness into light and of apathy into movement without

emotion.”

Carl Jung referred to the unconscious mind as the shadow, and its relentless efforts to discharge its contents as shadow projection.

The human ego tries to protect us from the pain by keeping it deeply hidden within the shadow of the unconscious mind. Most of us cede control of our lives to our egos.

Consequently, we live our lives controlled by the ego and present to the world, and ourselves, a limited facade rather than our full selves.

The essence of self-realization is to accept all that we are with self-love. Love is the energy of healing, not only for those around us but also for ourselves. The rejected parts of our psyche are also a part of us, and they are a powerful part. We can accept and release the contents of the shadow by allowing ourselves to fully experience emotions as they arise in the course of our lives, as they will in particular when we are faced with intimidating challenges such as relationship difficulties, career hurdles, and physical illness.

Thus, this healing process depends on accepting challenges, and the emotional pain they entail, as our own creation instead of blaming them on others around us. In this manner, the shadow within becomes a little lighter, and we know, and own, more of who we really are.

Conversely, if we follow the lead of the ego and keep the “unacceptable” parts of consciousness locked in the shadow, then we are thwarting the natural self-healing mechanisms of the human mind. This self-denial can intensify and become neurosis, which Carl Jung called “*a substitute for legitimate suffering.*” If the feelings that arise from shadow projection are denied again and again, the repressed energy can affect the body, creating physical illness, which in turn presents yet another opportunity for healing the unconscious burden of past denial.

I contemplated this expanded concept of self-love for many years and then began to use it in my medical practice by inquiring more deeply into the patterns of suppressed pain in my patients. When I did that, I saw that just as the model suggests, my patients’ painful emotions that they had suppressed since childhood would keep reappearing later in life, attached to new

circumstances.

For example, as psychologists have long recognized, abused children find themselves in abusive relationships as adults with surprising frequency. Similarly, abandoned children often recreate abandonment in adult relationships and children of alcoholics tend to develop relationships with alcoholics later in life.

Logically, you would think that the grown-up child of an alcoholic would have learned long before that alcoholics can be abusive and unpredictable and thus they would avoid relationships with them whenever possible. But the power of the shadow to influence conscious decisions in life is formidable, and the need for shadow healing is relentless, so all of us recreate painful incidents in life until we take the risks to own the emotions and grow from the experience.

Basically, if you do not express your emotions then your body will, and with symptoms and disease. [End of article]

For more articles on health topics by Dr. Peters, go to healminbody.com

Vitamin D Update

“Is something wrong with the Sun?”

Elena McHerron who is 84 years young told me that her daughter who lives in California and works outdoors every day was tested recently for vitamin D levels and they were low (below 30 ng/ml). Elena asked: *Is something wrong with the Sun?*

I told her that within the past month, I had spoken with an 81 y.o. man from Hawaii who spends most of his time outdoors. In addition to his exposure to the sun, he also has been taking 5000 i.u. of vitamin D for several years. Yet he also recently tested low for vitamin D. He also tested below the 30 ng/ml threshold. He recently decided to increase his vitamin D intake to 10,000 i.u. daily and will retest in the future.

This raises a few questions. 1. Are UVB rays from the sun decreasing and creating a worldwide deficiency of vitamin D? or 2. Is this an age related problem where the skin of the elderly population does not efficiently convert

UVB rays into vitamin D? or 3. Is there also an intestinal absorption problem with vitamin D in the elderly?

The Protocol for Treating Lyme

For several years, Elena has had a support group for persons with *Candida Albicans* and yeast overgrowth conditions. Recently she sent me an article by Joan Lewis about using Monolaurin for treating Lyme disease. Monolaurin is formed when lauric acid, a component of coconut oil, combines internally with glycerol.

Lyme is caused by an infectious agent called Spirochetes that is usually transmitted by wood ticks or deer ticks. The infection cause inflammation and can affect the joints and the brain. It can be very debilitating.

Note: I have not been able to interview anyone using this protocol. However, I am interested in receiving feedback from anyone using this method for treating Lyme.

The Monolaurin Protocol for Lyme, co-infections with Lyme, Chronic Fatigue Syndrome, Herpes, and other viruses

by Joan Lewis. (lewishouse@optonline.net)

The three essential steps are: 1. To use sufficient Monolaurin to kill the spirochete that cases Lyme disease. 2. To dissolve the biofilms and cysts with enzymes (Bio-Fibrin) that protect the spirochetes that cause Lyme. 3. To deal with relapses and re-occurring outbreaks of spirochetes, a person may need a maintenance dose of Monolaurin for 3 to 6 months. The protocol may be repeated if symptoms of Lyme reappear.

1. Began using **Monolaurin** pellets and gradually build up to a full dose over a 15-day period. The first day, take one scoop (one teaspoon) once a day for 5 days, and then increase it to one scoop twice a day for 5 days. At the 11th day increase it to one scoop 3 times a day.

2. After you are up to the full dose of Monolaurin at day 15, then start taking the **Bio-Fibrin** and gradually increase the dose. Start with one capsule taken before breakfast for the

first 5 day, and then at day 6, to increase it to one capsule twice a day for 5 days and then at day 11 to increase the dose to one capsule 3 times a day before meals.

The slow buildup is needed to allow the liver and kidneys to flush out of the body destroyed spirochetes and components of infected cells. Joan Lewis also writes about Herxheimer reactions.

“When you kill bacteria and dissolve biofilms, the normal job of the liver, kidneys is to filter the toxins out of the blood. Occasionally, a person can kill the bacteria faster than the liver can filter them out. Then, they can experience some flu-like symptoms called “herx” reactions....a person can simply do a more gradual buildup to a full dose, thus giving the liver plenty of time to filter the toxins out.”

Joan’s article claims this protocol works not only for Lyme, but also “co-infections babesiosis, ehrlichiosis, mycoplasma, tularemia, stari, and tularemia. Keep in mind; Monolaurin is in the highest concentration in mother’s milk to protect infants.... It has been tested on antibiotic resistant Lyme, and even MRSA Staph infections.” Joan can be reached at lewishouse@optonline.net

Monolaurin and Bio-Fibrin are available at **inspirednutrition.com**.

The pelletized form of Monolaurin is sold as “Monolaurin” and is also sold under the trade name “Lauricidin” developed by Dr. Jon Kabara of Med-Chem Labs. Monolaurin inactivates lipid envelope viruses and many other types of pathogens. It is available in capsules or bulk pellets. Since effective doses can require up to one teaspoon 3 times a day, the bulk form is more cost effective than the capsules. The website is **lauridicin.com**.

Other Treatments for Lyme

Early treatment – antibiotics as prescribed by your doctor. If antibiotic treatment does not resolve symptoms, consider **Teasel root** extract (use as directed or 1 to 5 drops 3X). Teasel root is a widely recognized herbal remedy for Lyme. **Venus flytrap extract** – 40 drops 3X. Continue treatment for at least 8 weeks and then get a re-examination from your physician.

Cat's claw has also helped people with Lyme - 2 cups of the tea may be used daily along with the other treatments. **Myrrh extract** and or **artemesia annua** (wormwood) that kills worms and parasites may also help with Lyme disease.

If you have Lyme disease, the following are a list of websites that may help: lymedoctor.com; ilads.com; igenex.com; andreaacandee.com, truthaboutlymedisease.com, and lymecryme.com.

Books: **The Book of Herbal Wisdom** by Matthew Wood and **Healing Lyme** by Stephen Buhner. Herbalist who distributes Teasel extract - Phillip Fritchey N.D. drphil@hisgoodherbs.com

Warning: Do not use radio frequency machines (e.g. – Rife technology) or whole body magnetic pads. Both of these devices cause electro-perforation of the membranes of the cells and increase the growth and spread of the infectious spirochetes' that cause Lyme.

Scientific Research - Monolaurin

In vitro evaluation of antibacterial activity of phytochemicals and micronutrients against *Borrelia*

by A. Goc, A. Niedzwiecki, and M. Rath

Abstract Excerpts –

“Little is known about the effects of phytochemicals against *Borrelia* sp. causing Lyme disease. Current therapeutic approach to this disease is limited to antibiotics. This study examined the antiborreliae efficacy of several plant-derived compounds and micronutrients.

Methods and Results

“We tested the efficacy of 15 phytochemicals and micronutrients against three morphological forms of *Borrelia burgdorferi* and *Borrelia garinii*: spirochetes, latent rounded forms and biofilm. The results showed that the most potent substances against the spirochete and rounded forms of *B. burgdorferi* and *B. garinii* were cis-2-decenoic acid, baicalein, Monolaurin and kelp (iodine); whereas, only baicalein and Monolaurin revealed significant activity against the biofilm.

“Moreover, cis-2-decenoic acid, baicalein and

Monolaurin did not cause statistically significant cytotoxicity to human HepG2 cells up to 125 ng/ml and kelp up to 20 ng ml.

Conclusion

“The most effective antimicrobial compounds against all morphological forms of the two tested *Borrelia* sp. were baicalein and Monolaurin. This might indicate that the presence of fatty acid and phenyl groups is important for comprehensive antibacterial activity.” End of excerpts.

For the full scientific article go to –

[http:// www.ncbi.nlm.nih.gov/pubmed/ 26457476](http://www.ncbi.nlm.nih.gov/pubmed/26457476)

Glycerol monolaurate antibacterial activity in broth and biofilm cultures (1) by Schlievert PMI, Peterson ML.

Abstract:

“Glycerol monolaurate (GML) is an antimicrobial agent that has potent activity against gram-positive bacteria. This study examines GML antibacterial activity in comparison to lauric acid, in broth cultures compared to biofilm cultures, and against a wide range of gram-positive, gram-negative, and non-gram staining bacteria.

Principal Findings:

“GML is ≥ 200 times more effective than lauric acid in bactericidal activity, defined as a ≥ 3 log reduction in colony-forming units (CFU)/ml, against *Staphylococcus aureus* and *Streptococcus pyogenes* in broth cultures.GML prevents biofilm formation by *Staphylococcus aureus* and *Haemophilus influenzae*, as representative gram-positive and gram-negative organisms, tested in 96 well microtiter plates, and simultaneously is bactericidal for both organisms in mature biofilms.

Conclusions:

“GML may be useful as a broad-spectrum human or animal topical microbicide and may be useful as an environmental surface microbicide for management of bacterial infections and contamination.”

Ref: I. [PLoS One](https://doi.org/10.1371/journal.plosone.0171777). 2012;7(7)

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