

# Science or Science Fiction, Immune System in a Pill?; The CBCD Reviews a Report

*Synthetic antibodies that copy the immune system's disease fighting methods may soon be introduced to the market. (1)*

ROCHESTER, NEW YORK, UNITED STATES, February 24, 2015  
/EINPresswire.com/ --

“Infected with a latent virus such as herpes, HPV, EBV, CMV, or HCV? The CBCD, which conducted two separate post-marketing clinical studies on the natural, antiviral formula of [Novirin](#), recommends taking this effective remedy to help the immune system target latent viruses in the body.” - Greg Bennett, CBCD

A synthetic immune system sounds like science fiction. However, researchers have successfully developed synthetic molecules that copy natural immune system antibodies. These molecules are an essential part of the immune system. They are large Y-shaped proteins produced by plasma cells that are used by the immune system to identify and neutralize foreign objects such as bacteria and viruses. Antibodies can be described as a lock-and-key. The lock is attached to the cell that needs to be destroyed, and the key is attached to the immune cell that executes the diseased cell. When the key fits the lock, the immune cell binds to the diseased cell and

destroys it. “Like the real thing, these so-called ‘synthetic antibody mimics’- or ‘SyAMs’ - bind to both diseased cells and disease-fighting immune cells. Specifically the compounds were found to zero in on and bind to a specific antigen (which is a substance that causes the immune system to produce antibodies against it, such as a virus) on prostate cancer cells. The SyAMs also bind to and activate certain immune cells that then devour the malignancy.” (1)



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*Greg Bennett, CBCD*

Why is this development important?

According to the article, in addition to being cheaper than natural antibodies, these new synthetic antibodies are also long-lasting and have fewer side effects. (1) Moreover, current methods of administering antibody therapies involve the use of needles. “Antibodies have their drawbacks: for one they're bulky and hence usually have to be administered

intravenously as they're often too big to be absorbed in the gastrointestinal tract.” (1) However, “David Spiegel and his colleagues at Yale University are out to develop compounds with the benefits of antibodies-hopefully minus the needle ... SyAMs are also one twentieth the size of antibodies-more akin to the size of most medications-and can therefore perhaps be administered orally. This could be

a major boon to patients with cancers and autoimmune diseases....” (1)

The CBCD is encouraged by the research of Dr. Spiegel’s team. “Any treatment that targets viral pathogens in today’s world safely and effectively is welcome.” – Greg Bennett, CBCD

However, government approval for new treatments, such as those being developed by Dr. Spiegel, takes time, and faces many obstacles to overcome. Until the SyAMs are FDA approved, the CBCD recommends that individuals infected with a latent virus, such as herpes, HPV, EBV, CMV, or HCV take Novirin, which is an antiviral remedy with a formula backed by clinical studies.

The formula of Novirin was tested by Hanan Polansky and Edan Itzkovitz from the CBCD in two clinical studies that followed FDA guidelines. The studies showed that the Novirin formula is effective against the herpes simplex family of viruses, which includes VZV. The clinical studies were published in the peer reviewed, medical journal *Pharmacology & Pharmacy*, the first, in a special edition on *Advances in Antiviral Drugs*. Study authors wrote that, “individuals infected with (a latent virus, such as herpes, HPV, EBV, CMV, or HCV) ... reported a safe decrease in their symptoms following treatment...” (2) The study authors also wrote that, “we observed a statistically significant decrease in the severity, duration, and frequency of symptoms.” (2)

Novirin can be ordered online through the product website, here: <http://www.novirin.com>

Novirin is a natural antiviral dietary supplement. Its formula contains five natural ingredients: Selenium, Camellia Sinesis Extract, Quercetin, Cinnamomum Extract, and Licorice Extract. The first ingredient is a trace element, and the other four are plant extracts. Each ingredient and its dose was chosen through a scientific approach. Scientists at polyDNA, the company that invented and patented the formula, scanned thousands of scientific and medical papers published in various medical and scientific journals, and identified the safest and most effective natural ingredients against latent viruses. To date, Novirin is the only natural antiviral product on the market with published clinical studies that support its claims.

“Spiegel’s group has also developed SyAM-based approaches targeting HIV, various other cancers and bacterial triggers of autoimmune disease. And although SyAM research remains in the petri dish, a mouse model is in the works and human studies are not far off. A number of other labs are also researching ways to fight disease by manipulating antibodies and synthesizing molecules that act on the immune system.” (1)

“The idea of producing ‘artificial antibodies’ traces back to the work of late 19th-century German physician Paul Ehrlich who first proposed that the immune system can neutralize toxins or pathogens by forming ‘antitoxins.’” (1) In addition to new methods for enhancing the efficiency of the immune system, the Center for the Biology of Chronic Disease (CBCD) points out that there is Novirin, which has an all natural, antiviral formula that was designed to help boost the immune system, and help target latent viruses. The Novirin formula is set apart from most natural products, because two clinical studies found that it reduced symptoms associated with several common, latent viruses. It is currently on the market and can be purchased directly from the product website.

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Interested individuals can view the studies published on the antiviral formula of Novirin here: <http://www.scirp.org/journal/PaperInformation.aspx?PaperID=36101#.VNc8leaUf90> and <http://www.scirp.org/journal/PaperInformation.aspx?PaperID=44234>

All orders of Novirin are completely confidential, and no information is shared or sold to any third party. Privacy is assured.

References:

(1) Scientific American - Stetka, Bret "A Pill That Mimics the Immune System." Published on February 9, 2015.

<http://www.scientificamerican.com/article/a-pill-that-mimics-the-immune-system/>

(2) Polansky, H. Itzkovitz, E. Gene-Eden-VIR Is Antiviral: Results of a Post Marketing Clinical Study. Published in September 2013.

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